

VHF-UHF DIGEST

the official publication of the Worldwide TV-FM DX Association

JANUARY 1977



ANARC'S Fastest-Growing Club!

*Ninth
Anniversary
Issue*

publishers' notes...

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

IT'S BEEN NINE YEARS...since that fateful day in late 1967 when WMRC, a floundering all-band club with only 27 members, was transformed by the hand of Morrie Goldman into an organization which exceeded most everyone's expectations: WTFDA. We're pleased to be able to glance back at those years from a vantage point which now shows WTFDA as a rapidly-growing club (as illustrated by that "slanted" statement on our front cover this month) and in better financial condition than ever before. We haven't yet exceeded our club's all-time membership record (roughly 330), but we're making headway: the January count is expected to be very near, if not exceeding, 310 members, and will be our sixth consecutive monthly increase. Although many have claimed that the present staff is largely responsible for WTFDA's vitality, thanks on this occasion most rightfully go to Morrie and Gary Olson, who founded and steered this club through difficult times when it might have just as easily folded. Morrie and Gary have our thanks, and they're deserving of yours as well.

NEW ADDRESS...A reminder that WTFDA Headquarters is now located at P.O. Box 202, Whiting, IN 46394. We expect to have a new masthead for this page, reflecting the new address, next month. The Illinois address shown above will remain open, but mail received there will be delayed considerably.

NEW CLUB POLICY...Beginning with this issue, WTFDA is instituting a new statute which declares that there shall be at least ten percent technical content in each VUD. Our thanks to Don Erickson for providing Xerox copies of past material, which makes this rule possible.

BITS...Pete Oprisko's EFM update and Dave Janowiak's new series will both appear next month...You'll find our new membership list in the center of this issue...Plans for our Tenth Anniversary Issue are now in the works. If you like this VUD...just wait until January 1978! 73, Clarke Ingram for Pete Oprisko, John Zondlo, and Mike Hogan

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WTFDA MAILBOX

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

New Members:

John Callarman	1122 Maple	Mt. Vernon, IL 62864
Peter Campbell	Ship's Office, USS Lang (FF-1060)	FPO San Francisco, CA 96601
Mark Gregor	54 Hookton Ave.	Uniontown, PA 15401
John M. Jefferson	1150 Tilson Drive	Concord, CA 94520
Tom Little	536 Cambridge Park N.	Maumee, OH
Paul L. Malone	321 Retford Ave.	Cranford, NJ 07016
Deane P. McIntyre	67 Centre St.	Bowmanville, ON L1C 2Y2
Joe Perge	546 Oakwood Ave.	Newark, OH 43055
Lexington Smith	55 E. End Ave., Apt. 4G	New York, NY 10028

Renewals:

Robert Babut, Robert E. Baxter, Mike Brewer, Alan Hobson, W.T. Ryan, Roger Sabella, David Wurl.

Address Changes:

B.W. Battin-4305 Pitt St.-Duluth, MN 55804
Doug Everitt-1710 W. Maine-Enid, OK 73701
Gary Olson-1195 S. Wilson Drive-Lake Forest, IL 60045
Terry Robinson-c/o Post Office-Woodend, Victoria, Australia 3442

Most DXers need no introduction to new member JOHN CALLARMAN. News director at WMIX in Mt. Vernon, John is the editor of NRC's Domestic Log, the finest station guide around for BCB DXers. He is also a former publisher of NRC's bulletin, DX News, and a member of IRCA. Good to have you aboard, John!

PETER CAMPBELL is a 25 year old Navy man who also belongs to IRCA. He found out about WTFDA thru the Association of North American Radio Clubs.

Primarily interested in FM DXing, JOHN M. JEFFERSON is the proud owner of a Heathkit AJ-15 tuner and a Winegard SC-650 antenna with a rotor. Antenna height is now 15', and will soon be 35'.

From the state of New Jersey (just below the state of confusion, hi-jz) comes new member PAUL L. MALONE. His DX gear includes a Bearcat 101, a Realistic Pro-3, and an Allied A-2515.

A 19 year old college student, DEANE P. McINTYRE is also interested in BCB and SW DXing. His shack features an Admiral 19" TV set, a Heathkit GR-78 receiver, and high gain, rotatable VHF/UHF antennas. He found out about WTFDA thru Radio Netherland's DX Jukebox.

Also a member of NRC and NASWA, JOE PERGE is interested in FM-TV, BCB, and SW DXing. A visit to his shack will produce an AR-1500 receiver, a Philco TV, and a Jerrold antenna.

It's always nice to hear comments like those of LEXINGTON SMITH. After receiving a sample copy of the July VUD, he joined the club, saying we had a "great publication and organization". Lexington is a writer, and also belongs to NNRC, DSWCI, NASWA, and ASWLC. For FM DXing he uses a Dynaco FM-3 tuner with a Dyna amplifier.

Tidbits.....

Here's something from WTFDA Comptroller Gary Olson, who recently moved to Lake Forest, Illinois: "We found a bigger place with all the extras we were looking for. So, although I didn't get much further away from the Chicago locals, the other advantages are obvious. Naturally I took down my tower and antennas. At the new place I may go to a "ground up" tower, thus I could be enticed to sell my roof mount aluminum tower and steel base plate assembly (which is 5 years old but in great shape) for a reasonable price. Any DXer who might be interested should drop me a line. The 24 foot tower breaks into three sections, but I expect they will be difficult to separate, so anyone wanting to take the tower will need something to transport the full 24 foot length. Also available is a used CMA-U amp with power supply and a virtually new (factory re-aligned after 3 months use) CMA U-B with power supply."

Next we have some comments from Harvey Woodworth (142 Otsego Ave.-San Francisco, CA 94112) that space was not available for last time: "My steps

toward amateur slow scan TV get more interesting as time goes on! I will be getting more information in the near future, and that will put me closer to that endeavor! The key to the project is in the communications receiver, as it is an audio signal that goes through a scan conversion process, which orients that audio signal to video. It's quite an interesting process, and it gets more exciting each day! I'll be looking into the future project of a communications receiver first, since this will be the key to the entire project. A new "DX den" also is planned for the future, as this too is an important matter. This will be done as part of my home remodeling program, so here again the slow scan hobby will have a suitable environment in which to function. Being home for a 3 week vacation has enabled me to take care of several important matters, including the slow scan hobby endeavor." And this comes to us from Harvey in a more recent letter: "During my recent 3 weeks vacation, I received some very encouraging news in regards to amateur slow scan TV! These next few months will find me quite busy, particularly in the first phases of that endeavor, and will keep you informed as to progress."

Member Dave Martin has a new publication out: "I have been a member of the club for the last few years, being active mostly in FM DX'ing. However, over the last few months I haven't had much time for DX'ing. I have been spending my time writing a book all about purchasing hi-fi equipment. I believe it would be of interest to many DX'ers who have not taken the plunge into a stereo system yet and soon plan to do so. The book is written so that it could be understood by someone totally unfamiliar with technical terms, but it goes beyond the beginning stages into more advanced material. The assumption I'm writing under is that a person first has to understand his needs before he can even look at a stereo system. I haven't seen any other books written from this point of view. I'm selling the book only by mail. It's about 73 pages, and it goes for \$2.95. The title is: "The Stereo Tailor". My mailing address for the book is: P.O. Box 19052, Lansing, MI 48901. Checks and money orders are payable to Dave Martin."

New member John Callarman writes to introduce himself: "As one who has been a DX'er of sorts since 1947, I'm interested in all phases of the hobby, and have been thinking of getting involved in TV+FM DX. I did a little TV DX out in the Panhandle of Texas in the early '60's and managed to QSL some 30 stations coast-to-coast, including a number of Canadians, in a three month period- but the situation hasn't been conducive to further high-band work since. About that time, I took on a column for the NRC, then moved to Boston and published the bulletin for a year or so, got married, the wife hiked out the club, and I've just in the past couple of years begun to become active. My first project (I always have a project) was to research and prepare the fourth edition of the NRC Domestic Log, now available. Now I've got a little more time! I have been news director here at WMIX for the past six years. I've worked at radio stations in Oregon, Texas, Louisiana and Massachusetts before moving here. In addition to my NRC membership, I'm also in IRCA and NASWA, and am "petitioning" to rejoin NNRC."

From the land down under we have comments from Terry Robinson: "Am moving into a house in a quiet country town in this state (Victoria) so DX possibilities should be good. Unfortunately my house is nearly at the foot of Mt. Macedon (with a marvelous view) so it looks like I'll have to go to the top of the mountain for the best DX, hi. Already have large aerial and am hoping to get a rotator soon (at the moment they are as scarce as hen's teeth, but a local Australian agent has some waiting to be cleared by customs)."

In the History of WTFDA, published in the July 1976 VUD, it was erroneously reported in paragraph 4 that Ferdinand Dombrowski was inspired to change the club's name and format from WMRC. Actually, it was Morrie Goldman who inspired the change. My apologies to MSG.

The Japanese Association of DXers has issued it's JADX VHF Report 1976. It's based on a VHF survey done by JADX members during the May-September Es season. It also includes features on Chinese and North Korean FM stations, Korean TV stations, and characteristics of 1976 VHF DX propagation. The report is available for 2 IRC's surface mail, 3 IRC's airmail, by writing to Japanese Association of DXers, P.O. Box 1766, Tokyo Central, 100-91, Japan. Incidentally, it is in English.

Many thanks to ANARC for their recent plugs of WTFDA in the ANARC Newsletter. In the December edition, they mentioned our "explosive growth pattern", which has propelled the club to a membership of over 300. You can see how many members we now have by checking the membership list enclosed with this VUD.

See y'all next month.....jz



FCC TV NEWS AND DATA

Dave Pomeroy
KTWU--Channel 11
Signal Hill
Topeka, Kansas
66604

January 1977

TV Applications

Concord, CA	(42)	280kw	2815.8	AAT
Greenville, MS	(15)	2746kw	887.0	AAT
Mt. Vernon, IL	(13)	316kw	956.0	AAT
Medford, OR	(21)	77.7kw	570.0	AAT
Ft. Wayne, IN	(55)	499kw	782.9	AAT

CP's Granted

*Austin, TX	(18)	2032kw	1150.0	AAT
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New Stations on the Air

KTSF-26	San Francisco, CA
*KQEC-32	San Francisco, CA
*KTEJ-19	Jonesboro, AR
*KAFT-13	Fayetteville, AR
*KETG-9	Arkadelphia, AR
*KUSU-12	Logan, UT
WATL-36	Atlanta, GA
WGTQ-29	Traverse City, MI

Call Letter Grants

*KLTS	Shreveport, LA	
WVII-TV	Bangor, ME	now WEMT
*WWPB	Hagerstown, MD	now WWPB-TV
KOLR-TV	Springfield, MO	now KOLR

Call Letter Applications

KTVG	Fayetteville, AR	now KGTO-TV(36)
KGMV	Maui, HI	now KGME-TV

Translators Granted

K10KD	Prudhoe Bay, AK	
K070E	Camp Lonely, AK	
W31AA	Newark, OH	WOSU-34
K09MZ	Monument, OR	
W64AP	Williams, AZ	KAET
K04AO	Dolores, CO	was K05GA
K56AT	Gore Pass, CO	KBTV
K11MN	Monument, OR	was K130H
K04IP	Searchlight, NV	was ch. 12
K070F	Searchlight, NV	was ch. 6
W57AF	Johnson City, NY	
W62AI	Harpursville, NY	
W67AC	Owego, NY	
W69AG	Berkshire, NY	
W57BW	Sanpete County, UT	
K11NN	Barrow, AK	
K04IU	Kaktovok, AK	
K04IS	Nuiqsut, AK	
K04IQ	Point Hope, AK	
K04IR	Wainwright, AK	
K070G	Cotopax, CO	KRDO
K03EP	Cotopax, CO	KKTV
K03EO	N. Pinewood Springs, CO	KMGH
K08IV	N. Pinewood Springs, CO	KOA
K11NO	N. Pinewood Springs, CO	KBTV
K66AV	Sunetha, CO	KREZ
K02IG	Rodeo, NM	KOLD
K69BI	Madras, OR	KATU
K04IV	Paulina, OR	KVAL

(Thanks to John Combs, Frank Aden, Doug Everett, James Thomas and Morrie Goldman, db)

Translators Granted (continued)

K10KE	Plain, WA	
K82AR	Durango, CO	change to ch. 68
K61AO	Norfolk, VA	now channel 71
K03EQ	Douglas Creek, CO	KREX
K09NA	Sheep Springs, NM	now ch. 11
K02IH	Tohatchi, NM	now ch. 9
K130K	Silver Springs, NV	KTVN
W59AE	Pine Grove, PA	WVIA
W08BQ	Del Rio, TN	WLOS
K070H	Baker, NV	KUED
K09NB	Baker, NV	KUTV
K11NP	Baker, NV	KTVX
K130J	Baker, NV	KSL
K08IW	Captain's Bay, AK	
K81BI	Alamosa, CO	
K05GC	Rexford, MT	KPAX
K09NC	Cottonwood Cove, NV	KOOL
K11NQ	Cottonwood Cove, NV	KTVK
K130L	Cottonwood Cove, NV	KLAS
K65AF	Chagrin Falls, OH	WVIZ
K67AI	Gates Mills, OH	WVIZ
W28AA	Cookeville, TN	WCPT
W57AQ	Alton, UT	KUED
K070I	Granger, WY	KSL
K06IN	Granger, WY	KCPX
K03ER	Riverton, WY	KOA
K070D	Sourdough Pipeline Camp, AK	
K09MX	Atascadero, CA	now K07ID
K04IO	Coffee Creek, CA	KHSL
K05FZ	Coffee Creek, CA	KRCR
K66AT	Mancos, CO	KREZ
K56AS	Wainae Coast, HI	KHON
K58AN	Wainae Coast, HI	KITV
K60AE	Wainae Coast, HI	KHET
K66AU	Wainae Coast, HI	KIKU
K68AY	Wainae Coast, HI	KGMB
K08IU	East Glacier, MT	CJOC
K070C	Polaris, MT	KXIF
K09MY	Polaris, MT	KTVM
K61FO	Norfolk, NE	now K71BI
W56AP	Genoa, NY	WCNY
W69AN	Union Springs, NY	WCNY

FROM THE READERS:

Spanish language KORO-TV in Corpus Christi, TX plans to go on the air in February...
 KUAM-TV in Guam has returned to the air following "a two month typhoon-caused hiatus...
 KVDO-3 is not a satellite of KOAP as is KOAC...KTVR-13 in LaGrande is now a part of the Oregon Educational Broadcasting System of four stations...According to Frank Aden Oregon channel 21 will be in Bend, not in Medford--owners will be Medford, Inc., of KMED-10...WITI-6 will switch from ABC to CBS around the first of April...Demise of WSWB-35 in Orlando involved the confiscation of RCA equipment by U.S. marshals who pulled the plug in the middle of a program...WSCT-27 in Tallahassee is ABC affiliated.

FCC FM NEWS

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

New FM Stations Granted

CA Mariposa 96.3 1100 h,v; 2080' km; 48, 113 km
CA Pacific Grove 104.9 740 h,v; 550' 15, 45
(replaces KOCN, deleted)
CA San Pedro KKOP-FM1 93.5 r 10 [KKOP-FM 93.5
Redondo Beach CA on-channel booster]
CT Wallingford *89.9 10 watts; Choate Hall
CO Fort Collins K244AF 96.7 c KVOD 99.5 Denver
10-watt translator.
CO Glenwood Springs KCMK *90.5 10 (reinstates/
LA Many 107.1 3000 (horizontal); 300' 15, 46 mi
LA Sulphur 100.9 3000 h,v; 300' 15, 46 miles
MI Ironwood 106.9 mk 25000 h,v; 515' 29, 67 mi
MO Liberty 106.5 100000 h,v; 620' 39, 83 mi; k
MO Tarkio 93.5 3000 h,v; 235' kr; 13, 42 miles
NE Omaha 96.1 100000 h, 98000 v; 275' 29, 73 mi
primary & secondary. Interim operation!
NJ Blackwood *91.5 10 watts
NM Aztec 94.9 30000 h,v; 430'; 45, 108 kilometers
NM Deming 94.3 3000 h,v; 195' 12, 40 miles
OH Dayton *88.5 10 Wright State U.: perilously
close on the dial to Dayton-Kettering OH share-
timers on *88.7; how can it happen?
OK Ardmore 92.1 3000 h,v; 210' m; 13, 41 miles
OK Weatherford 97.3 69000 h,v; 380'; 51, 117 km
PA Mt. Pocono W272AA 102.3 [WGBI-FM 101.3
Scranton PA translator] C; 1 watt; stereo, r.
SC Surfside Beach (33-34-32; 79-2-29) 3000 h,
v; 300'; 24, 74 kilometers; k.
UT Roosevelt *90.9 10 watts
VT Montpelier 96.7 400 h,v; 700' 14, 43 miles--
now is FM authorized in all state capitals,
Mike Dorner?
WI Neenah 100.1 3000 h,v; 162' 11, 38 mi; g
WY La Barge K296AT 107.1, m (KSL-FM 100.3 Salt
Lake City UT translator). Not sure if 1 or 10w.

On Air and DX Ready (Presumed)

AL Birmingham WBHM *90.3 25000 h,v; 740'; \$, SCA
AK Kenai KQOK 100.1 3000 h,v; 194' (Calls, too)
AZ Willcox KWXC 98.3 3000 h,v; 57' " "
CO Montrose KUBC-FM 94.1 31000 h,v; 1750'
FL Marathon WMUM 94.3 3000 h,v; 107'
FL Pensacola WAJB 107.3 100000 h,v; 367'; \$, m, l
FL Tallahassee WAMF *90.5 10
GA Chatsworth WQMT 99.3 3000 h,v; 300'
IL Decatur WZQ 95.1 50000 h,v; 500' \$, k
IL Morton WTAZ 102.3 3000 h,v; 300', p, NBC
IN Chesterton WDSO *89.1 10, r (claims 84' ht.)
MS Columbus WLNK *90.9 10
NE Seward KSRD 96.9 100000 h,v; 580' \$; SCA
NY Cortland WSUC-FM *90.7 10
PA York WVYC *88.1 10
TX Amarillo KQIZ-FM 93.1 71100 h,v; 161'
UT Cedar City KSUB-FM 92.5 41000 h,v; 1690'

On Air with Changes (Selected)

AL Decatur WRSA 96.9 100000 h,v; 830'
CA Paso Robles KPRA 92.5 17000 h,v; 762', having
moved from 94.3. CA St. Helena KVYN 99.3 3000
h,v; 235' m; good signal reported in San Fran-
cisco on car FM sets.
CO Pueblo KTSC-FM *89.5 9800 h,v; 165'
FL Pensacola WJLQ 100.7 100000 h,v; 500'
MD Baltimore WPOC-FM *93.1 16000 h,v; 860'
MA New Bedford WMYS 98.1 50000 h,v; 500' [97.7]
MI Dowagiac WDOV-FM 92.1 3000 h,v; 108' (from /
NM-Albuquerque KRKE-FM 94.1 3500 h,v; 154'

[Thanks to all who sent Holiday greetings; A Happy and DX-filled 1977 to all of you!!!]

OH Cincinnati WVXU-FM *91.7 6400 (h); 680'
OH Cleveland WBOE *90.3 50000 h,v; 500'; \$
TN Greeneville WOFM 94.9 100000 h,v; 320'

Deletions

CA Pacific Grove KOCN 104.9
PA Norristown WVVE *91.7

Off and On Frequency (Drifter)

WI Ashland WATW-FM has returned to its correct
frequency—95.9, after being on 96.1 for a
long time, and wandering as far down as 95.5.

On with reduced power?

WI Suring WRVM 102.7 should be 100 kw, but I
doubt they are more than 3 kw. KRIT 96.9
Clarion IA fined for running less than 90%
of their authorized power. Anybody notice if
KRIT is now stronger than they were for a
while?

Facilities' Changes Granted

AL Birmingham WVOK-FM 99.5 870' (100000 h,
50000 v; p (not r); \$, SCA.
AL Muscle Shoals WLAY-FM 105.5 3000 h,v (300')
CA Bakersfield KUZZ-FM 107.9 5500 h,v (1340')
CA Los Gatos KRVE-FM *95.3 370 h,v (870')
CA San Francisco KKHI-FM 95.7 8600 h,v; 1200'
CA San Luis Obispo KUNA 96.1 5600 h,v; 1410'
CA Thousand Oaks KNJO 92.7 560 h,v (DA); 630'
(One reporter sent an item that a 10-watter
on *90.3 was granted to CA Lutheran College in
1000 Oaks, but I believe the FCC threw out the
application, and Broadcasting was in error.)
CA Truckee KSML 101.7 1250 h,v; 470' 15, 46 mi
CO Oak Creek KFNU 103.9 265 h,v (1030') 15,
46 mi; windmill powered station owned by ex-
Duluthian.
CT Waterbury WWYS 92.5 12500 h,v DA; 860'
FL Winter Park WPRK *91.5 1300 h,v; 90'
GA Eastman WUFF-FM 92.1 2000 h,v; 370'
IL Kankakee WBYG 99.9 10,000 h,v; 230' 17, 51 mi
IL Springfield WDBR 103.7 19000 h,v (320')
IL Taylorville WEEE 92.7 780 h,v; 290' 10, 37 mi
IN Crawfordsville WLFQ 103.9 920 h,v; 500'
LA Lake Charles KLCL-FM 99.5 33000 (h); 400'
LA Thibodaux KXOR 106.3 1800 h,v; 380'
MD Bethesda WJMD 94.7 21000 h,v (780')
MI Bad Axe WLEW-FM 92.1 3000 h,v; 235'
MI Coldwater WANG 98.5 500' (50000 h)
MI Fremont WSHN-FM 100.1 2750 h,v; 295'
MI Kalamazoo WQLR 106.5 33000 h,v; 600'
MN Eveleth WVLA 100.1 710 h,v; 550' 14, 44 mi
MO Maryville KNIM-FM from 95.3 to 99.3; FCC
says they must move by Feb. 1, 1977, or face
deletion! Move is necessary to give Red Oak I
its first channel—95.3.
NE Nebraska City KNCY-FM 97.7 300' (3000 h,v)
NH Newport WCNL-FM 101.7 2750 (h); +51'
NC Concord WPEG 97.9 20000 h,v (390')
OH Centerville WCWT *91.9 (not *89.5), 10 w.
OH Cincinnati WVXU (see top of this column)
OH Columbus WBNS-FM 97.1 26000 h,v; 660'; 33,
71
OH Georgetown WURD 97.7 1600 h,v; 390'
OR Eugene KRVM *91.9 1900 h,v (28'); 4, 16 mi.
OR Portland KPAM-FM 97.1 100000 h,v; 1000'
KJIB 99.5 100000 h,v (870')
PA Charleroi WWFM 98.3 300' (3000 h,v)
PA Philadelphia WDOB 96.5 18000 h,v (850')
WDAS-FM 105.3 3300 h,v; 870'

PA Pittsburgh WPEZ 94.5 34000 h,v
PA Scranton WEZX 107.1 110 h,v; 1270'
PA State College WQWK 96.7 250 h,v;
920'. TX Dallas KKDA-FM 104.5
680' (100000 h,v); \$ resumed?
TX Fort Worth KESS 93.9 adds v.
TX Orange KIOF 106.1 1060' (100kw h,v)
TX Tyler KTYL 93.1 100000 h,v; 470'
TX Uvalde KYUF from 95.3 to 104.9
VA Chesapeake WFOS *90.5 1500 h,v;
145'; 8 miles primary; 33 secondly.
WA Ocean Shores KDUX (studios Aber-
deen WA) 106.3 21000v; 360'
WV Rainelle 96.7 1150 h,v; 460'
WI West Bend WBKV-FM 92.5 19000 h,v;
530'; 28, 66; quits use of DA.
WY Sheridan KRQE-FM 94.9 58000 h,v
PR Carolina WOLA 107.7 50000 h,v;
89' (but FCC may be in error as it
could be -89'; previous ht. was -88')

Call Letters Assigned

AZ Scottsdale 100.7 KDOT-FM (was
KDOT-FM; AM adjunct has new calls)
CO Boulder *88.5 KGNU
CO Cortez 106.3 K292AX (not K292AD)
CO Denver 106.7 KAZY (from KLZ-FM)
CT Norwalk 95.9 WLYQ (WNLK-FM)
FL Starke 106.3 WPXE-FM
GA Glennville 106.3 WKIG-FM
IL Chicago 95.5 WNET (WDFH)
IL Chillicothe 94.3 WCLL
IL Winnebago 95.3 WYFE-FM (WYFE-FM)
IA Fort Madison 101.7 KBKB-FM (KXGIFM)
KS Hillsboro *88.1 KHHS
KY Greensburg 103.1 WGRK-FM
KY Jackson 97.7 WJSN-FM
KY Madisonville *89.9 WSOF-FM
LA Ruston 107.5 KXKZ (KRUS-FM)
MD Lexington Park 97.7 WMDM
MI Grayling 100.1 WQON
MO Columbia 96.7 KTGC (KTGR-FM)
MO Poplar Bluff 95.5 KMMX
MO Springfield 107.1 K296AI (appar-
ent change from K296AS)
NM Roswell 97.1 KRSY-FM
ND Mayville 101.7 KMAV-FM
OR Gold Beach 107.1 K296AS (apparent
change from K296AT)
PA Clarion *91.7 WCUC-FM
SD Rapid City 100.3 KGGG-FM
TN Nashville 103.3 WKDF (WKDA-FM)
TX Paris 99.3 KACW (KPLT-FM)
WA Spokane *90.3 KWRS
WA Yakima 104.1 KUEZ (KUTI-FM)
WV Weston 102.3 WSSN (WHAW-FM)
PO Sherbrooke 102.7 CITE (CHLT-FM)
Sudbury ON 92.7 has new calls; see
Canada column for details!

71 SCA (67 kHz) Activities

AL Gadsden WQEN drops SCA (103.7)
CA Buena Park KBPK *90.1 adds SCA
GA La Grange WWCG 104.1 drops SCA
GA Manchester WFDR-FM 93.3 " "
KY Murray WAAW 103.7 adds SCA
MN Rochester KNXR 97.5 adds SCA
MS Columbus WJWF 103.1 Muzak

MS Hattiesburg WHER 103.7 Muzak
 TX Arlington KWJS 94.9 music
 TX Dallas KERA-FM *90.1 talking book, nites
 KAFM 92.5 talk (Continental
 News Relay) KNUS 98.7 no SCA; drop listing
 KMEZ 100.3 " " " "
 KDTX 102.9 music
 KVIL-FM 103.7 no SCA
 KOAX 105.3 no SCA
 TX Fort Worth KWXI 97.1 talk and music
 KFWD 102.1 no SCA

Stereo Stations

AL Birmingham WENN-FM 107.7 and Z (from B)
 AL Fayette WVEL 98.1 and k, but off the air;
 has applied for new call letters.
 AL Jasper WWWB-FM 102.5, and k (from m)
 AL York WSLY 99.3, m
 GA Washington WLOV-FM 100.1; r (was kg)
 HI Waipahu KULA 92.3 PA Scranton WVMW
 IL Geneseo WRSQ 104.9 *91.5
 IN Logansport WSAL-FM 102.3, m (from mr)
 NY Lake Ronkonkoma WSHR *91.9
 PA Waynesburg 103.1 WY Torrington
 TX Houston KUHF *88.7 98.3; adds SCA

Quitting Stereo

AL Birmingham WDJC 93.7; had \$ on for one
 day, but signal very bad; no \$ heard since.

Formats/Networks

AL Birmingham WQEZ 96.5 Mutual
 AL Carrollton WAQT 94.1 mr (from mk)
 CA San Francisco KNAI 99.1 to be m, NBC;
 expected to quit NIS by Jan. 1, 1977, or
 shortly thereafter; true \$ to resume.
 DC Washington WAMU *88.5 pc (non-ID:"88+")
 FL Clearwater WOKF 95.7 r ("adult con-
 temporary"); A (was I)
 FL Melbourne WTAI-FM 107.1 r (from m)
 GA Athens WAGQ 104.7 r (not p)
 IL Chicago WNIS 101.1 to rp, \$, NBC to
 replace NIS; watch for new call letters;
 also new calls at KNAI, WNWS New York.
 IN Anderson WLHN 97.9 m (from rm)
 IN Kokomo WKMO 92.7 (but still on 93.5; 1
 reporter says this change, as well as
 Hartford City's frequency change, not to
 be consummated; however, others and my
 FCC data dispute this contention) r (was
 k); misidentifies as "Z-93."
 OK Oklahoma City KAFG 102.7 A A=ABC-FM
 PA Wilkes-Barre WRKC *88.5 I I=ABC Info.
 WCLH *90.7 M M=Mutual
 WYZZ 92.9 M (from A)
 TX Dallas KVTT *91.7 g (from r)
 WA Richland KORD-FM 102.7 m (from mr)

Dual-City Identifications

FL Naples WCVU 94.5 adds Fort Myers FL
 PA Scranton WGBI-FM 101.3 adds Wilkes-
 Barre PA
 VA Big Stone Gap WLSO-FM 93.5 adds
 Appalachia VA

Non-IDers (selected)

PA Philadelphia WUSL 98.9 "U. S. 1" and
 "FM 99"; gives legal calls only on the
 hour.
 PA Harrisburg WSFM 99.3 "W-99"
 PA Greencastle WKSL 94.3 "usually" IDs as
 "Castle" radio; m.

Changes in Drake-Chenalt automated for-
 mat services: "Solid Gold" now known as
 "Contempo 200" (r). "Hit Parade" now
 "Contempo 300" (rm), although some sta-
 tions still have "Hit Parade" jingles.
 New Drake Chenalt formats: "XT 40" (top
 40; r); "XT 100" (album rock) [r].

Abbreviations Used (Selected)

Program formats: c classical, g gospel,
 k country, m middle of the road, p pro-
 gressive rock, r rock oldies and top hits
 (including "adult rock"), s soul, t talk.
 One reporter suggested I use a separate
 symbol for "disco," such as "d." For such
 stations an "rs" is employed.

READERS' REPORTS AND COMMENTS

While looking for a good radio to hook an SCA adapter to, I have run across a most unpromising prospect, but one that works amazingly well—a Wards Airline model No. GEN-1463A; EIA 742, Series S1611, a six-band portable, AC-battery-IC, that was made in Taiwan some six years ago.. The Wards clerk I spoke to had no knowledge of this radio, saying they change their models every year or so, and that the radio would not be available in the catalog, either. What endears me to this set is the excellent suppression of local FM signals in strong-signal areas. It works much better than other sets that claim to have field-effect transistors, and it has a "multiplex output" jack, as well as an audio input jack, so that you can play an SCA adapter (or FM stereo adapter) through such a set. Its tone quality is good, for a set costing about \$35. Its drawback is its rather poor selectivity, but what I like is its very good sensitivity, freedom from local station overload, the fact that it is small and compact without a cumbersome cassette feature built in, and it has jacks for MPX output and audio in, instead of a simple jack marked "earphone," such as most portables have. I wonder if anybody knows if this radio is still being made and distributed under a different name? It might possibly go down in history like the legendary Sony ST5130 as a very good set, but one that is no longer available.

Some Pennsylvania FM stations are announcing the wrong powers. WYZZ 92.9 Wilkes-Barre PA is claiming 50,000 watts, instead of their true power of 7,500 watts, while WPEL-FM 96.5 Montrose PA at its 10 p. m. local time sign-off, the station says it uses "circular polarization" and a "combined effective radiated power of 114,000 watts." The FCC has ruled that adding the horizontal and vertical effective radiated powers is a no-no, and stations like WPEL-FM can claim only their true effective radiated power, which in the case of WPEL-FM is 57,000 watts. "The section of your book on Non-ID'ers is interesting. Knowledge of the slogan is especially helpful in identifying a hard to receive station. I came across one instance with WMRV Endicott NY (105.7), which often uses the slogan, 'Stereo 105', in lieu of call letters. However the call letters are announced more than once an hour," so the station is not a true "non-IDer." Here are some slogans that are sometimes used alone, and at other times with call letters. Even though the following are not really "non-IDers," knowledge of the slogans used may be of help to DXers in identifying the stations: Scranton WEZX 107.1 "stereo 107," "FM 107," WWDL 104.9 "Popular 104," "Stereo Island," and "FM 104," WGBI-FM 101.3 "Stereo 101"; Binghamton NY WAAL 99.1 "Stereo 99," and "The Whale," WQYT 98.1 "Stereo 98," and "Quiet Island"; Wilkes-Barre WYZZ 92.9 "Whiz," and "Stereo 93." WUSL 98.9 Philadelphia still m, but more up-tempo at night with live announcers.

A Pennsylvania reporter sent literature on the McKay Dymek AM tuner, plus some personal observations, which helps to add some light on the AM-FM controversy generated by this column. The Jan., 1975 Audio quotes George McKay as saying "The AM transmitting equipment in use today can send out a signal that is flat 50 to 15,000 cycles. The transmitted signal is clean, distortion free, and full fidelity, except for the case of some few small local stations." Farther on in the same article, however, he

says ". . . in theory at least, clear-channel stations are not limited in station frequency response, though in practice they are limited by complaints. A typical frequency response of an average station can be and most generally is as high as 7,500 Hz, with clear-channel stations going up to 10 kHz." Here are Vic Melis' comments: I purchased both units (George McKay's AM5 [earlier AM3] AM tuner and DA5 AM antenna/preamp) in March while still living in Pottstown plagued by downtown reception problems on both FM and AM. A log periodic with rotor solved FM long ago, but for AM I was looking for the impossible—a tuner/antenna arrangement that would give me the control of directionality and approach the frequency response of FM. Lack of space restricted construction of any antenna. . . Frequency response in the wide-band mode far outperforms anything I've ever heard on AM/FM receivers which usually compromise by sacrificing some selectivity in favor of a slightly wider bandpass. Listening through KLH 33 and AR 2ax speakers, I was really quite impressed with the tuner's frequency response. Best results, like AM stereo, are realized within primary signal area where upper sidebands are strong enough to yield a high frequency response with high signal to noise ratio. Recently, over the Thanksgiving holiday, we took along the AM5 and DA5 with us to Michigan while visiting long-time DXer and WTFDA member Dave Martin who does an air shift at WJIM 1240 kHz Lansing. We taped a few hours of his show with the AM5 at a distance of 4 miles from WJIM's transmitter tower. Listening back to the 7 1/2 ips tape through 3-way speaker systems we were able to hear things previously thought to be audible on the station's studio monitor only. Most noticeable was a hum from a poorly-insulated phono cartridge on one of the station's turntables. Another comparison showed a considerable difference in frequency characteristics between the Electro-Voice mike Dave was using and an AKG mike used during the newscast from another studio. Surface noise, pops and scratches, turntable rumble all were quite noticeable during low passages. An A-B check of WVIC (730 kHz) and WVIC-FM (94.9 MHz), East Lansing, showed remarkable AM fidelity beyond 10,000 Hz as an audible difference was noted when switching the Dynaco PAT-4 preamp's 10 kHz filter in and out. . . Signal to noise ratio (at this distance of 5 mi. from the transmitter) seemed no worse on AM than on FM. Although FM had a 2 to 3 kHz advantage at the upper end of audio range (12 kHz vs. 15 kHz), AM at least equalled FM performance at the low end.

Here in Spring City RD#1, there is only one local AM (Pottstown), but 8 of Philadelphia's 11 are listenable in wide-band mode with no adjacent frequency interference at 35 miles from the transmitters, and five of New York's 50 kw-ers from 100 miles, plus another 15 stations from smaller markets in a 60-mile radius. All of these 28 stations exhibit considerably higher fidelity when compared to other tuners with narrower passbands. I agree with the Portland OR person (10-76 VUD) that AM is capable of transmitting the entire audio frequency spectrum; its greatest limitation, however, being the rapid deterioration of signal/noise ratio with distance from transmitter. I think the idea is marketable, though, even with this restriction, since a 20-mile radius would be the target audience, anyway. McKay's tuner and RCA's "Ampliphase" high-fidelity broadcast transmitters are steps in the right direction, but public demand, as always, will be the ultimate criterion. I don't foresee any more immediate success for AM high fidelity than AM stereo or FM Quad has had. Improvements in TV audio would sooner become reality since the technical means are there.

Concerning WCAO-FM 102.7, it is still called that. This is a Plough station with a "cr" format. It has rock from midnight to 8 am 7 days a week; classical otherwise. Since Plough is changing its other FM's (with the exception of WJJD-FM Chicago), it is hard to tell what will be happening at WCAO-FM. They may have trouble changing from a classical format as WCAO-FM is the only classical FM left in Baltimore. Several controversial programs that were purged from WGTB have found a home on the new WPFW *89.3 Washington DC.

One reporter who likes to keep tabs on the FM-SCA scene, notes with dismay: "The use of SCA for background music must be declining, because in the last three years five stations in this area have discontinued it. I believe what is happening is that the smaller companies are being bought out by the larger ones (i. e., Muzak), and this leaves less choice for those of us with SCA adapters."

WFLM 103.9 Crown Point IN now p all night; 10 p. m. to 5:30 a. m.; m at other times. WBST in Muncie expects to move to 92.1 by March, although I have yet to see that they have received an FCC CP to make this change, despite reports I have received, including some IN newspaper articles. WSIV-FM 95.3 Pekin IL subscribes to the FM-100 program service, so I wonder if somebody could see if it is \$.

The long history of commercial classical music broadcasting in the Twin Cities is recounted in an article in the Minneapolis Tribune, Nov. 28, "Why Won't Twin Cities Support Concert-Music Radio?" which went into detail concerning the reasons KTNW 107.9 Anoka MN quit carrying classical music.

"Although the Atlas has indicated KGOY 104.9 Bethany OK to be \$ for some time, they only recently actually did go \$," reports an OK reader. "New KAEZ 107.7 Oklahoma City has irregular operating hours; good signal, but still mono." Names of contributors to this column to be run next month!

In a very complicated deal, KEAR 97.3 San Francisco is buying the equipment of KMPX 106.9, and would change frequencies. This would leave KCBS-FM 98.9 free to move to KEAR's 97.3 channel, with 98.9 to be sold to a black-owned group. This station would play r, as opposed to s music. Lost would be KMPX's "big band" sound, and listeners' opposition to this shuffle is forming. KEAR would receive \$2 million to make this change, while paying only \$1 million for KMPX, resulting in a better signal for KCBS-FM on 97.3. KEAR is "grandfathered" in at a higher power than is legal for stations in that area.

A complete list of Canadian stations is said to be available from the Canadian Department of Communications, Broadcast Engineering and Certification Branch, Journal North Building, 300 Slater Street, Ottawa, Ont. K1A 0C8. It has been reported through Canadian military channels that CHAR 105.9 Alert, NWT, at the northern tip of Ellesmere Island, is being received by service personnel in Thule, Greenland, who have very good receiving equipment. Not bad for a 76-watt station! Also, CHAR is reportedly being heard across the Arctic Ocean in Siberia. Closer to the border, the North Bay, Ontario, stations on 95.1 (French) and 96.1 (English) are basically low-fi outlets that receive all their programs over the CBC AM network line. Their only "i. d." is heard about once every two hours, and all it says is "North Bay 96.1," as well as mentioning the frequency of one of the area's low power AM relay transmitters. Even though the FM transmitters have 100 kw each, their call letters are never heard—even at sign-off.

SOUTHERN TV-DX

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

January 1977

For TV-DXers South of the Mason-Dixon line and East of the Mississippi

Well, here we go! Finally, a TV-DX column just for all us "rebels", hi! To begin my first column, allow me to clarify a few things:

- (1) "East of the Mississippi" will include all of Louisiana, which is split in two by the Mississippi.
- (2) All TV-DXers in this area are encouraged to report regardless of how "exciting" they may think their DX to be.
- (3) FM DXers are encouraged to inform me of the MUFs they observe during Es openings. (This will be helpful for the Es charts). Even if you never DX TV, at least send me the FM MUFs!
- (4) Since the type on this typewriter is rather large, I am using one letter abbreviations for propagations, in order to be able to fit 3 columns on a page. E=E-skip, T=Tropo, M=Meteor Scatter, A=Aurora.

To start off this inaugural column, we have a rather dated report from Tom Yingling. Then we'll get to some more recent DX.

Tom Yingling, Jr., 221 Pinewood Rd., Baltimore MD 21222 (EDT)

Equipment: Sony Trinitron KV-1214 12-in. color set
Ranger-505, by Bradford (sold by W.T.Grant) 5-in. B&W set
Lafayette 36-element log periodic for ch. 2-13 & FM
5 foot dish for UHF

June		
11 E	2300 CJBR-3 PQ 750	19 T 0220 WFSB-3 CT 270
	2315 KMTV-3 NE 1000	0230 WNAC-7 MA 350
	2330 KOTA-3 SD 1350	0300 WCBS-2 NY 200
13 E	1400 CJBR-3 PQ 750	0500 WTEW-10 NY 280
	1430 CBHT-3 NS 850	Albany
T	2330 WTEV-6 RI 350	E 0548 CJOX1-2 NF
	2350 WFSB-3 CT 270	Grand Bank
16 E	1730 CJBR-3 PQ 750	0600 CJOX-3 NF 1275
	1750 WRBL-3 GA 650	21 M 0216 KPRC-2 TX 1250
	1800 WABG-6 MS 900	Houston
	1815 WCBI-4 MS 925	E 1800 KLINE-3 NE 1200
	1820 WEAR-3 AL 850	1810 KMTV-3 NE 1100
	1825 TVN-3 CUBA 1000	1830 KGLO-3 IA 1010
	1830 WSAV-3 GA	22 M 0210 KTVI-2 MO 730
	1840 CHAU-5 PQ 900	27 E --- "FM up to 107.7
	Carleton	...chs. 3-6 unread-
	1845 KOTV-6 OK 1010	able"
	1900 KTBS-3 LA 1050	28 E 2100 WDAY-6 ND 1150
19 T	0200 WVEC-13 VA 180	Fargo (st. #40)
	0215 WTNH-8 CT 250	2115 KWAB-6 NE 1250
		Hayes Center
		28 E 2200 KPLO-6 SD 1200
		2210 KDLO-3 SD 1150
		2230 KXJB-4 ND 1150
		Valley City
		2250 KTVY-4 OK 1150
		Oklahoma City
		29 E 0200 KNOP-2 NE 1250
		North Platte
		0205 CBWP-3 MB 1250
		0215 KQTV-2 MO 950
		St. Joseph
		0230 KTEW-2 OK 1010
		0235 KDFW-4 TX 1200
		Dallas
		0245 KOKT-2 KS 1100
		Great Bend
		(New modes are
		broken-under-
		lined, Tom--
		jfc)

I forgot to note that also on June 28, Tom noted an FM MUF of 107.7--jfc

July		
15 E	1820 CJOX-3 NF 1275	15 E 2000 WABI-5 ME 550
	1830 CJOX1-2 NF	Bangor
	1850 CJON-6 NF 1275	2020 CBHT-3 NS 850
	1900 CJCH-5 NS 850	2030 KTBS-3 LA 1050
	Halifax	2100 KATC-3 LA 1000
	1930 CJCN-4 NF 1270	16 E 1800 KTVY-4 OK 1010
	Grand Falls	T 2100 WCVW-57 VA 167
		2100 WCVW-23 VA 167
		16 T 2200 WVIR-29 VA 1000
		24 E 1130 WPBT-2 FL 1000
		Miami
		1145 WEDU-3 FL 950
		26 E 1630 KDAL-3 MN
		27 E 1700 KTBS-3 LA 1010
		1730 KARD-3 KS 1100

August

16 E 1630 WCIX-6 FL 1000	16 E 1700 KARD-3 KS 1010	16 E 1730 KTVY-4 OK 1000
1645 KHAS-5 NE 1100	1715 KYTV-3 MO 950	1800 WDSU-6 LA 1100

"I'm in the process of increasing my five-foot dish height and adding the Winegard AC-4990 uhf amp to it no matter what Cooper says about it. (And the BT model CMA-Ub or CMA-UIN...cost too much \$\$\$.) Also adding a Channel-Master Probe-9 FM yagi for my Pioneer TX-9100. 73s...Tom."

(I agree concerning the AC-4900, Tom. Regardless of what Cooper has to say about it, I still consider it a darn good amp and a good buy, too--jfc.)

Tropo conditions over the Southern reporting area were less than fantastic in October, November and early December. South Carolina made it into Florida on UHF a few times, but still none of the strong Gulf or coastal openings that one would expect. E-Skip has been surprising though, with several strong off-season openings. October 4 & 5 saw two very welcome back-to-back openings, one bringing Central America to the Gulf area. And November 24 seemed to have been a good day throughout the South, with the MUF hitting the FM educational band.

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

November

15 E 2002 unID-2 "French"	24 E 1534 ch.2 Cuba	24 E 1732 WBRZ-2 LA
16 T 1000 WKZT-23 KY T	1538 "2 Cubans CCI w/	1732 WESH-2 FL
17 E 1900 KMID-2 TX	each other"	1800 KPRC-2 TX
24 E 1450 WPBT-2 FL	1600-1645 "Network	+ unIDs to 1930
1450 WEDU-3 FL	Trouble Slide" on	25 E 1756 KMID-2 TX
1535 KMID-2 TX	Ch. 3 (see below)	30 E 1605 WPBT-2 FL

December

1 T 2320 WTTV-4 IN	5 T 2230 WHIO-7 OH	6 T 0016 WICD-15 IL
2 E 1215 unID-2	2230 WMAL-7 DC	0016 CKGN1-22 ON T
5 T 0355 WXYZ-7 MI	2230 WXYZ-7 MI	0120 WJZ-13 MD T
	2230 WKBW-7 NY T	

"Well, let's hope that our column is very successful and big...but knowing how the VUD size is, I guess that it's not possible for the column to be any bigger than 4 or maybe 5 pages...(that depends on the number of reports--jfc)...let's hope that you shall as I do get that ever so elusive station!--73s & the best of DX..."

(Randy--please include distances with your report. Regarding your "Network Trouble" slide, I had the same thing in on the 24th. In my log it is down as tentative SKVR, but that appears to be a little short for skip from your QTH. Probably a midwest PBS, maybe KLNE.--jfc)

(Randy also sent along an interesting article about tiny magnetic bits from industrial pollution which are bombarding the Gulf area. None, however, were measured to be more than 800 micrometers in diameter (which ain't a heck of a lot), so there has probably not been any VHF scatter as a result of these --jfc)

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

October

2 T 0745 W69AA FL	5 E 2000 YNTC-2 NIC	17 ? 1300 unID-2 "diag. CCI
3 T 0840 W69AA FL	2005 X##-3 Mex.	o/WPBT to west"
1508 W64AD rebr.	"ad for XEZ-600"	19 T 2100 WCJB-20 FL
ICR-6 (WCIX off)	2035 XEW-2 DF	31 T 0655 W69AA FL
4 E 1715 XHP-3 PUE T	8 T 0425 WCIV-4 SC T	
1830 WIPM-3 PR	16 T 0630 W64AD rebr.	Also several relogs of
1950 KFDX-3 TX	WDBO-6	WJKS-17 FL (285 mi.) during
5 E 1950 YSR-2 ES	0800 WCJB-20 FL	month.

November

6 T 1755 WJCL-22 GA 390	11 T 1758 WECA-27 FL 360	24 E 1715 CKVR-3 ON 1240
7 ? 1540 unID-2 "ø off-	Tallahassee	"MUF to 91.1 MHz"
set o/WTHS to SE"	20 T 0730 W69AA FL	27 T 0600 W64AD rebr.
10 T 1640 WCJB-20 FL	24 E 1430 WTWO-2 IN 1020	WDBO-6
2048 WEBA-14 SC 460	1430 WAVE-3 IN 880	28 ? 1300 unID-2 "20 kHz
2140 WJCL-22 FL 390	1710 KYTV-3 MO 1080	CCI o/WPBT"

Also many relogs again of WJKS-17 FL during November.

"Not much DX, almost had a Costa Rican, but...have become a beer can collector. I joined the Beer Can Collectors of America and take this opportunity to ask WTFDAers to send me their empty NON-NATIONAL beer cans (i.e. no Busch, Schlitz, Miller, etc.). THANKS. (That's all Sue needs is hundreds of beer cans to add to the clutter of your DX gear and paraphenelia, Ken, hi!--jfc). Don't laugh, but got my CB ticket...KAET9647, but use infrequently. 73s, Ken!"

Your editor's report follows on the next page. Boy, have I been having antenna problems! (See comments next page) My "temporary set-up", used during October and November, consisted of the old faithful V-125 @20 ft., and a 4-bay UHF @25 ft., both HAND-ROTATED. When DX was up, one could see me climbing up on the roof to change the antenna heading!! Since I've been having problems getting the 7' dish up, my "new" temporary (but a little more permanent) set-up is as follows: V-150 @30 ft., 2 stacked 4-bays @25-30 ft. w/AC-4990, both w/rotors.

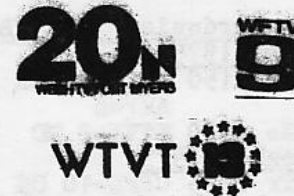
John F. Combs, 816 W. Harvard, Orlando FL 32804 (EDT/EST) (305)843-4829

October

5 E 1733	XEW-2	DF	1295	25 M 0536	WJBK-2	MI	T	27 M 0522	KYW-3	PA	868		
	Mexico City				0636	WNEW-5	NY		0528	WSYR-3	NY	T	
	(estado #4)			26 M 0527	WJBK-2	MI	965	T 1728	WXGA-8	GA	198		
14 T 0945	WECA-27	FL	221		0537	WCBS-2	NY	942	29 M 0539	WKYC-3	OH	887	
	Tallahassee				0540	WKYC-3	OH	887	T 0601	WTOC-11	GA	242	
	0945	WJCL-22	GA	242		0545	WSYR-3	NY	T 31 T 0145	WDTB-13	FL	T	
	0958	WJHG-7	FL	T		0557	WPVI-6	PA	868	0145	WJHG-7	FL	T
15 T 2147	WJCL-22	GA	242	T 0604	WJHG-7	FL	T			1013	WAGA-5	GA	T
24 T 2208	WJCL-22	GA	242		0605	WTOC-11	GA	242		1033	WSAV-3	GA	242
25 T 0510	WCKT-7	FL	191	27 T 0510	WCKT-7	FL	191			1043	WJCL-22	GA	242

November

3 T 2222	WJCL-22	GA	242	10 T 2239	WTVY-4	AL	299	25	(Installed AC-4990 pre-amp on 4-bay)					
	2222	WTOC-11	GA	242	11 T 2140	WJHG-7	FL	274	E 1717	CKVR-3	ON	T		
4 T 0853	WNOK-19	SC	392		2140	WDTB-13	FL	263		1717	WGR-2	NY	T	
	0853	WJCL-22	GA	242		2140	WJWJ-16	SC	T		1723	WEWS-5	OH	T
	0853	WEBA-14	SC	320		2140	WFSU-11	FL	T		1726	WLWT-5	OH	T
	0853	WDHN-18	AL	T	15 T 2345	WJHG-7	FL	274			1730	WBEN-4	NY	986
	0904	WOLO-25	SC	380		2345	WDTB-13	FL	263		1730	WKYC-3	OH	887
	0904	WRLK-35	SC	385	16 T 0004	WTVY-4	AL	299	26 E	unIDs-2,3 CCI				
	0905	WTOC-11	GA	242		0024	WFSU-11	FL	230	T 1322	WDTV-5	WV	T	
	0907	WRDW-12	SC	T		0043	WECA-27	FL	221		1343	WEBA-14	SC	320
5 T 0504	WCKT-7	FL	191			0655	WJHG-7	FL	274		1343	WJWJ-16	SC	290
M 0532	WJBK-2	MI	T			0655	WDTB-13	FL	263		1419	WRJA-27	SC	373
	0536	WCBS-2	NY	942		0655	WJWJ-16	SC	290		2017	WECA-27	FL	221
	0539	WPVI-6	PA	868		0657	WYEA-38	GA	341		2021	WABW-14	GA	244
T 0600	WTOC-11	GA	242			0700	WECA-27	FL	221		2022	WXGA-8	GA	198
	0622	WEBA-14	SC	310		1818	WJWJ-16	SC	290	M 2025	unID-11 o/WINK			
	0643	WJCL-22	GA	242		1825	WABW-14	GA	244	T 2228	WFSU-11	FL	230	
	0644	WRDW-12	SC	T		1825	WJHG-7	FL	274		2228	WJHG-7	FL	274
6 T 0823	WJCL-22	GA	242			1825	WDTB-13	FL	263		2228	WDTB-13	FL	263
	0823	WTOC-11	GA	242		1826	WSAV-3	GA	242		2304	WCKT-7	FL	191
7 T 2035	WECA-27	FL	221			1831	WJSP-28	GA	357		2305	WPLG-10	FL	191
	2110	WABW-14	GA	244		1834	WYEA-38	GA	341		2306	WKID-51	FL	191
	2111	WJHG-7	FL	274		1834	WECA-27	FL	221		2335	WSAV-3	GA	242
	2111	WDTB-13	FL	263		1845	WALB-10	GA	244	28 T 0700	WSAV-3	GA	242	
	2113	WFSU-11	FL	230		1854	WMAZ-13	GA	318		0742	WECA-27	FL	221
10 T 0705	WEBA-14	SC	320	17 M 0508	WJBK-2	MI	T	30 T 0640	WJWJ-16	SC	T			
	1713	WDTB-13	FL	263		0523	WCBS-2	NY	T		0641	WYEA-38	GA	341
	1713	WFSU-11	FL	230		0524	WKYC-3	OH	887					
	1713	WJHG-7	FL	274		0527	KYW-3	PA	868					
	1746	WECA-27	FL	221		0535	WPVI-6	PA	868					
	1817	WSFA-12	AL	T	18 T 2320	WJWJ-16	SC	290						
	1830	WXGA-8	GA	198		2320	WRDW-12	SC	T					
	2215	WDHN-18	AL	301		2325	WRJA-27	SC	373					
	2215	WABW-14	GA	244		2325	WJPM-33	SC	408					
	2219	WGIQ-43	AL	329		2326	WITV-7	SC	T					



December

- 2 Dismantled temporary antenna system (V-125 at 20', 4-bay w/AC-4990 at 25').
- 4 Intended construction of new antenna system never materialized. Time and other factors worked against us. It was also decided that VHF and UHF antennas should not both go on the tower.
- 6 Managed to wreck V-125 while trying to erect it at 30'. (To say the least, I was a bit upset). Purchased a "V-150". The V-125 has been discontinued by Radio Shack. The V-150, while touted as having better range, has fewer elements than the old V-125 and seems to be generally a poorer-performing antenna. Nevertheless, it's all I can presently afford.
- 7 Installed V-150 at 30' on Alliance T-45 rotor. Although it is 5' higher than where I had the V-125, reception under dead cx seems to be not as good.

With all the hassles I'm having lately antenna-wise, it's almost enough to make me want to give up the hobby! (Almost, but not quite, hi.) I'll be using the V-150 probably through the winter Es season. Eventually, I hope to construct a couple of home-brew ch. 7-13 yagi and stack them. Also, maybe a ch. 2-6 yagi, too. If any members have information concerning building antennas, please contact me. Maybe 7' dish will go up soon.....I can only hope!!

EASTERN TV-DX

Bill Thompson
1907 Seneca Street
Buffalo, NY 14210

January 1977

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

Trope conditions in late fall practically everywhere in the East were about as poor as they can possibly be. An unusual flow of very cold arctic air has penetrated deep into the Eastern Seaboard, causing some of the worst wintry weather since the early 1960's. If the winter turns out to be as severe as some experts predict, trope won't be making any DX news for some months! Hopefully, some mid-winter Es activity will have taken place by this time.

Chris A. Corso 78 McAdam Avenue Toronto, Ontario M6A 1S7 (EDT)

September	12 Tr 1030	Youngstown U's	12 Tr 1030	W72AQ-72 NY146
9 Tr 0100	Erie PA U's	Erie U's		(WNED xltr)
	WICU-12 PA 135	CIOO2-32 ON 195	19	1015 WJET-24 PA 135
	WUAB-43 OH 200	CHLT2-40 OH 85		WYTV-33 OH 200
0200	WFMLJ-21 OH 200	WUAB-43 OH 200		WSEB-35 PA 135
	CHLT2-40 ON 85	WPGH-53 PA 250		CHLT2-40 ON 85
1035	Erie PA U's	WKBD-50 MI 200		WUAB-43 OH 200
	W46AB-46 NY 103	W46AB-46 NY 103		WPGH-53 PA 250
	(WNED-17 xltr)	(WNED-17 xltr)		WQLN-54 PA 135
	WUAB-43 OH 200	WTVS-56 MI 200		W72AQ-72 NY 146
1100	W72AQ-72 NY	WGPR-62 MI 200		(WNED-17 xltr)
	(WNED-17 xltr)			

"Also all evening of September 19th, same stations noted as during day, plus Rochester's U's & V's and WNEO-45 Alliance, Ohio. Also CCI on WNED-17 Buffalo from WJAN-17 Canton OH (270 miles away)."

Steven Sprachman Box 88 Moffitt Hall Plattsburgh, New York 12901

"There hasn't been much DX up here since I've gotten here in September. There have been a lot of new stations added to my list. All stations received always except those marked (*): CBFT-2 Montreal QB (55mi); CBOT-4* Ottawa ON; CBMT-6 Montreal; CHLT-7 Sherbrooke QB (75mi); WMTW-8* Mt Washington NH; ???-8 Trois Rivieres QB?; CKSH-9 Sherbrooke QB (75mi); CFTM-10 Montreal; CBVT-11 Quebec City QB (tentative); CBFT-11 Laurentians QB (tentative); CFCF-12 Montreal; CJOH-13* Ottawa ON (120mi); CKTM-13* Trois Rivieres QB (125mi); CIVM-17 Montreal; WVTB-20* St Johnsbury VT (85mi); CIGQ-24 Ottawa ON; WVER-28 Rutland VT (80mi); CFVO-30 Hall QB (125mi); WVTA-41 Windsor VT; WLED-49 Littleton NH; W61AE-61 Enosburg VT. Locals are WCAX-3 Burlington VT (35mi); WPTZ-5 Plattsburgh (11 mi—the transmitter can be seen from one of the windows!); WZLZ-22 & WETK-33 Burlington VT (35mi). That's how it looks as of now. I don't get much time to DX because of an extremely hard load of reading."

Fred Nerdquist 7945 Boxford Road Clay, New York 13041 (EDT)

August 1975	16 Es 1812	WCTV-6 GA 965	17 Es 2345	WDAY-6 ND 1035		
8 Tr 2150	WAKR-23 OH 295	2005 unID-6 CUBA	19	1830 KAAT-6 MN 830		
	Akron	2100 KGFB-2 ND 1060		Austin		
23 Es 1900	KTVI-2 MD 785	Grand Forks	1900	KNOP-2 NE 1255		
November 1975	26	2030 WCBQ-2 SC 755	1907	KPRY-4 ND 1200		
4 Tr 2323	CFPL-10 ON 255	28	1852	KUSD-2 SD 1030		
May 1976	2233	WCIX-6 FL 1225	21 Tr 0000	CITY-79 ON 170		
17 Es 2330	WCIV-4 SC 755	"End of N. Syracuse logs"	23 Es 1830	KGFB-2 ND 1055		
23	1515	KNOP-2 NE 1255	July (Clay loggings)	27	1820	WDSU-6 LA 1195
June	16 Es 1800	WOWT-6 NE 1000	August			
4 Es 1230	WTVJ-4 FL 1225	1802	KTIV-4 IA 1020	2 Es 1827	WDDB-6 FL 1055	
	Miami	1830	KPCA-2 MN 850	October		
6	2030	WABG-6 MS 1000	17	1200	KUSD-2 SD 1030	
16	1730	WDDB-6 FL 1055	1300	KPRY-4 SD 1200	2 Tr 2305	WICU-12 PA 210
	Orlando	Pierre				Erie

"New location definitely helps on fringe reception of Rochester and Canada."

Roy Barstow 70 Heritage Circle Featicket, Massachusetts 02536 (617)548-2329

September	15 Tr 0030	WHP-21 PA	20 Tr 0900	WHRO-15 VA	
14 Tr 2100	WBOC-16 MD	0100	WHAG-25 MD	WBOC-16 MD	
	WCPB-28 MD	2100	WBRE-28 PA	0915	WAPP-22 MD
	2200	WBFF-45 MD	2130	WSBA-43 PA	WCPB-28 MD
15	0001	WCVB-23 VA	2155	WSKG-46 NY	WYAH-27 VA
	0010	WMPB-67 MD	2205	WBJA-34 NY	WFAF-29 PA
	0015	WSBA-43 PA	16	0045	WUTR-20 NY
					WLVT-39 PA

(We'll have more of this report, along with Roy's comments, next month -bt)

CENTRAL TV-DX

William J. Draeb
Ellis St. R.R.#2
Kewaunee, WI
54216
Deadlines: 10 th

January 1977

For dxers in--Il, In, Ia, Mi, Mn, Oh, and Wi.

Buck Battin: 4305 Pitt St., Duluth, Mn 55804

"I'm now back in your territory again. I last reported to your column from Shreveport, La. Then I moved to Rapid City, SD. Now here I am in Duluth where I'm News Director at KDAL-3, a station I once logged(Es) from Albuquerque, NM.

I was in Rapid City only about four months. I never got the chance to dx there at all.

I expect to be in Duluth a lot longer. If the weather holds up I'll start putting up my antennas in a week or two.

I'm on relatively high ground here, but there's higher ground to the North and West which may interfere with dxing in those directions. (One can't buy a home just for dxing, I guess.) It's clear to the East and South where most of the stations are anyway.

Hopefully, I'll have some reception reports on the way shortly. (This letter was postmarked Nov. 19--wd; the following report was postmarked Dec. 3--wd)

"I now have most of my antennas up and I'm once again dxing. So far, I've installed the following: for UHF a Jerrold JUP-4 "Para-cyl"; a Jerrold 10 element hi-band yagi, (rotated on the same mast with the JUP-4) and a Jerrold 10 element low-band yagi (rotated separately.) Still to be installed is another 10 element low-band to be mounted vertically and a ground-plane I use on a 30-50 Mhz radio to detect Es building up.

It's been freeqing cold here since I got my system partially installed and there's been very little here in the way of dx. In any case, here's what I've been able to pull in so far:" The following report covers 11-20 to 11-26--wd.

20 Tr 1830 <u>WEAU-13</u> W1 145	23 Tr 0730 <u>WHLA-31</u> W1 210	24 Tr 0145 <u>WBEM-2</u> on ch.9
21 Tr 1845 <u>WHWC-28</u> W1 135	24 Tr 0120 <u>KMSP-9</u> Mn 140	from West; cable??
2300 <u>WKBT-8</u> W1 210	0130 <u>WTCN-11</u> Mn "	25 Tr 0050 <u>WJMN-3</u> M1 250
2305 <u>WAED-12</u> W1 155	<u>KSTP-5</u> Mn "	0100 <u>WAOW-9</u> W1 180
2313 <u>WSAU-7</u> W1 180	0140 <u>WCCO-4</u> Mn "	0120 <u>WRAY-2</u> W1 255
		26 Tr 0730 <u>WBEM-20</u> W1 180
		2250 <u>WJPR-13</u> M1 225

The previous report was edited. Stations under 200 mi. were left out unless they were new. Other reports will get the same treatment.--wd.

Michael L. Hogan: 9224 Cottage Grove Ave., Highland, In 46322 CST

"Some unusual Es openings have been observed for this reporting period. Let's hope this is a sign of a good mid-winter opening. (Amen to that--wd) 73's and happy holidays."

11-17 Es 1926 KATC-3 La 5325 Log now at: 42 stations in 10 states.
1930 KBTX-3 Tx 4123

Robert Zent: 1835 Fruit St., Huntington, In. 46750 EST report covers 11-15 to 11-25

15 Es 2000 <u>CKCW-2</u> NB 1080	15 Es 2037 <u>WLEZ-2</u> ME 875	16 Tr 1920 Kentucky U's
2013 <u>CBHT-3</u> NS	2100 <u>WGBH-2</u> MA 745	25 Tr 2125 <u>WKPT-19</u> TN 350
		2127 <u>WSVN-47</u> VA 325

"My parents recently purchased a 1976 Sylvania color set with detent UHF tuning. The tuner seems to be extremely accurate with repeatability far better than my Sony."

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

The following report covers 11-13--12-5.

13 Tr 1856 <u>KDNL</u> MO 432	16 Tr Springfield, Mo U's (588)	25 Es <u>KBTX-3</u> TX @1610 1079
2040 <u>WMUL</u> WV 498		1621 <u>WBRZ-2</u> LA 1002
15 Tr 2118 <u>KDNL</u> MO 432	17 Tr 1827 <u>KDNL-30</u> 432 MO	<u>KPRC-2</u> TX 1118
16 Tr 1816 <u>KHIN</u> IA 457	25 Tr 0743 <u>WKYT-27</u> KY 473	1643 <u>WCBD-2</u> SC 916
1853 <u>WDSU</u> OH 395	Es 1610 <u>KATC-3</u> LA 1026	Dec 4 Tr 1403 <u>KDNL-30</u> MO 432
2030 <u>KDNL-30</u> MO 432	<u>KJAC-4</u> TX 1080	5 Tr 2105 Cleveland U's (355)

"A rather dismal month even with the unexpected Es. The 'deep freeze' temperatures continue here. About the only way to log any DX is on Ms or Aurora."

WESTERN TV-DX

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

January 1977

For TV DXers in all states west of the Mississippi in whole except Iowa, and Canadian provinces Manitoba and west.....send in your report today!

A few changes are taking place in this column. First, note the new address. My DXing and column editorial facilities are moving into a small house next door, so all reports should now be sent to this new address.

So as to standardize reporting deadlines for VUD DX columns, this column's deadline has been reinstated at the 10th of each month. Reports arriving after the 10th will not appear in the following VUD, regardless of importance.

UnIDs will now appear only when denoting conditions which would not otherwise appear in an individual report, and which warrant attention. Those long rows of UnIDs which fill the DX columns during the summer season will no longer be with us. If you have specific information, the best place to send it is to Frank Aden's CCI column; I'm sure he'll be glad to help you ID your catches.

As a further measure to save space, all reports will now be prepared in the three column format. Also, reports of DX under 200 miles (320 km) will be heavily edited unless station is new-to-air, an unusual translator logging, or comprising the major part of a new reporter's contribution.

All of this is intended to make the VUD a more compact and attractive magazine, and to allow the presentation of more technical material; something that's a bit hard with bloated DX columns. As always, your comments are appreciated.

NEW REPORTER

Bob Young, 1502 W Broadway, Enid OK 73701 (November)

16 tr 2000 KMCC 28 TX 280	17 tr 0900 KMTC 27 MO 270	17 tr 0900 KBMA 41 MO 260
17 tr 0900 KTVJ 16 MO 220	KTSB 27 KS 220	WIBW 13 KS 220
KOZK 21 MO 270	KCPT 19 MO 260	KODE 12 MO 220

I'm amazed at what one can see on an old black & white set, rabbit ears, and a loop. 73, W5UOT (Bob's logging of WIBW 13 is notable, as KETA 13 was on at the time. I'm trying to sell Bob a rooftop antenna; if he does this well on indoor antennas, wonder how he'll do on a large log?--de)

John Anderson, Box 186, Lowe Farm MB ROG 1E0

<u>September</u>	06 tr Minot, Bismarck,	15 tr 1100 KTSB?10 SD 370
02 Es 0135 CKSA2 2 AT 630	Aberdeen, Duluth Vs	17 tr 2300 KTCA 2 MN 360
0205 CFAC 2 AT 757	above normal in AM;	0000 WTCN 11 snowfree
Au 0225 thru ch.4 with	Duluth Vs in evening	<u>October</u>
nice display	15 tr 1100 KSFY 13 SD 405	11 Es CEXAT 2 AT 840

A few dates in September proved to be quite interesting tropo-wise. No UHF was seen during these sessions. Possibly the antenna is too low (25 feet), or else the system isn't working properly--maybe the preamp? I don't notice a change on the screen as I plug in the amp. With the VHF amp, I do notice a change; intensity of snow, audio noise, etc. Best of DX & 73, John

Jim Pizzi, 300 Park, Orcutt CA 93454 (PDT) Log at 183

<u>July</u>	<u>August</u>	03 Es 0855 KTWO 2 WY
31 tr 1130 KTXL 40 CA	01 Es 1854 KCKT 2 KS	0907 KREM 2 WA
1134 KCST 39 CA	1854 KARD 3 KS	04 Es 1640 XHI/XEPM? 2
1134 KPBS 15 CA	02 Es 0853 KMID 2 TX	05 Es 0856 KRTV 3 MT
Es 1450 KMOL 4 TX	0853 KACB 2 TX	0856 KREM 2 WA
1451 KENS 5 TX	0853 KWAB 4 TX	0927 CFAC 2 AT
1501 KAVE/KAUZ? 6	0859 KMOL 4 TX	0929 KMID 2 TX
1530 KDFW 4 TX	0929 KRGV 5 TX	0929 KTVQ 2 MT
1533 & 1535 MUF ap-	1424 XEPM 2 CH	1922 KDUH 4 NE
parently ch.7	1426 XEJ 5 CH	15 Es 1032 KMID? 2 TX
1559 KTVY 4 OK	1500 KDBC 4 TX	1034 KACB? 3 TX
1559 KFSM 5 AR	1500 KWAB 4 TX	(Jim also notes off-season
1600 KMID 2 TX	03 Es 0855 KNOP 2 NE	Es 17 Sep & 23 Nov ch.2--de)

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

12 MS 2135 KIII? 3 TX 600	17 tr 0838 WKMU?21 KY 530	18 tr 0005 KERA local level
14 Es 1024 WCB? 2 SC 1060	0842 KNCT 46 TX 380	0014 KLTV 7 TX 320
1056 WESH? 2 FL 1100	0929 WLKY 32 KY 680	0041 KCBJ 17 MO 350
1100 WSAV/WEAR? 3	previously as tentative	0800 same as 17th,
1153 WDIQ? 2 AL 750	0930 WUSI?16 IL 570	minus KY stations
16 tr 1940 KMCC 28 TX 280	Es 1858 WSJK 2 TN 800	24 Es 1700 CKGN2 2 ON 1180
17 tr 0834 WICS 20 IL 510	1859 WWAY 3 NC 1140	1700 CKVR 3 ON 1060
0835 KTEJ?19 AR 410	1905 WCYB? 5 VA 880	tr 2354 KTHV 11 AR 350
0837 KDNL 30 MO 450	1929 WFMY 2 NC 1020	25 tr 0630 WQAD 8 IL 530

Doug Everitt continued...

<u>25</u> tr 0633 <u>KPLR 11</u> MO 450	<u>25</u> tr 0731 <u>KFVS 12</u> MO 470	<u>25</u> tr 0840 <u>KCMO 5</u> MO 260
0650 <u>KDNL 30</u> MO 450	0735 <u>KTEJ 19</u> AR 410	Es 1540 <u>WCBD 2</u> SC 1060
0656 <u>WAND?17</u> IL 540	0745 <u>WEHT?25</u> IN 590	1600 <u>WFMY 2</u> NC 1020
0657 <u>WUSI?16</u> IL 570	0800 <u>WAND 17</u> IL 540	1610 <u>WBTW 3</u> NC 970
0659 <u>KMBC 9</u> MO 260	0823 <u>KOMU 8</u> MO 350	1611 <u>WUND 2</u> NC 1190
0725 <u>KRCG 13</u> MO 350	0830 <u>KQTV 2</u> MO 280	1611 <u>WUNC 4</u> NC 1150
0729 <u>KHIN 36</u> IA 340	0835 <u>KOLR 10</u> MO 270	1641 <u>WWAY 3</u> NC 1140

For a November, it was quite a month. Thanksgiving was nicely celebrated by the profusion of tropo and Es. Both the tropo and Es were quite strong. WBTW 3 was in for about 30 minutes like a local, with WWAY doing the same after WBTW's fadeout. Combine good DX and lots of turkey, and you have a content editor!

I might note that KOCO 5 & KOFM 104.1 were both off the air for several hours on Thanksgiving, centered around noon, local time. Strong winds were in the area.

Bob Cooper, Jr., Rt.5 Box 782, Guthrie OK 73044

NOT EXCITING?

Aside from some tropo and off-season Es, this was not a terribly exciting period here. My 7-20-76 logging of SS Es 2207-2220 ch.3 turns out to be PJF-TV, St. Martin, a Dutch island east of Peurto Rico; double E at about 2500 miles. Country #10 here.

Tropo on 10-25/26 was more of December/January variety, which, come to think of it, more aptly describes the weather in October as well!

October
06 tr 0745 KDNL 30 MO
 Es 1905 to 2030:
 XHI/XHFA? 2

08 tr 0745 KDNL 30 MO

11 This tropo break telegraphed itself on weather map nite of 10th, but I forgot to pull alarm button--drat!
 tr 0655 KMNE 7 NE,
KMEG 14 IA, K18AA KS,
KXNE 19 NE, KVFD 21 IA,
KDOG 26 TX, KHNE 29 NE,
KHIN 36 IA, KBIN 32 IA,
KCBJ 17 MO

0756 start of the good stuff: K48AA, K50AB, K52AB, K54AC, with K46AA added at 0845 s/on; from St. James MN. K56AJ from Basset NE.

0821 KYNE 26 NE,
K80CP Beatrice NE
 0930 K56AF, K58AE,
K60AK, K64AH, K66AL
 from Clarinda IA.

1013 KDSD 16 SD
 Love those 4-6 translator clusters! 11 new stations, bringing totals to 682.

This was heaviest overloading of UHF preamps I've ever experienced; even the special 50-83 preamp overloaded from signals above 50 at one point.

12 tr 0655 KDOG 26 TX

November was a poor month, coupled with extensive traveling (14-17 Nov, 01-03 Dec)

12 tr 0655 KHTV 39 TX
 0725 KDNL 30 MO,
KCBJ 17 MO

15 MS 1900 KDLO 3 SD

17 tr 0850-1050 & 1820-1825 KDNL 30 MO

21 (Bob notes several Es periods--no IDs--de)

24 tr 1650 KDNL 30 MO
25 tr 1820 KTEJ 19 AR

1846 WMAV 18 MS
 2028 KNCT 46 TX,
KVUE 24 TX, KEDT 16 TX,
KTVV 36 TX
 2121 KLAA 14 LA,
WAPT 16 MS, WAAY 31 AL,
KHNE 29 NE, WHIQ 25 AL,
 2155 WFIQ 36 AL

26 tr 0458 WYBA 38 GA,
KNOE 8 LA, KLFY 10 LA
 0528 WXIA 11 749mi.
 0528 WJTV 12 MS,
WTCG 17 GA, WRBT 33 LA,
WHEA 26 GA

0537 KPLC 7 LA
 0545 WMAZ 13 GA 807
 0559 WCWB 41 GA 807
 0610 WKAB 32 AL,
WAPT 16 MS, KTVV 36 TX,
WCOV 20 AL

0628 WBMG 42 AL
 0636 WGNO 26 LA,
KDOG 26 TX, KVUE 24 TX,
WHNT 19 AL
 0717 WMAA 17 MS,
KHNE 29 NE
 0718 WJSP 28 GA,
WMAO 23 MS, WMAV 18 MS,
WDHN 18 AL, WMAU 17 MS

26 tr 0718 WMAW 14 MS
 0718 WACS 20 GA 790
 0718 WDCO 15 GA 865
 0730 WCFT 33 AL,
WLOX 13 MS
 0730 WABW 14 GA 885
 0734 WAIQ 26 AL
 0739 KAFT 13 AR
 0741 WIIQ 41 AL,
WYUR 48 AL, WGIQ 43 AL,
WFIS 36 AL
 0753 WMAH 19 MS
 0836 WHTV 24 MS

Shut it down for several days-gone thru late 28th.

November
01 tr 0657 KVFD 21 IA
 still not on 50
 0657 KHIN 36 IA,
KHNE 29 NE
 1850 WAPT 16 MS
 1917 WMAV 18 MS
 2138 KDNL 30 MO

17 tr 2100 KAMU 15 TX,
KVUE 24 TX, KDOG 26 TX,
KTVV 36 TX, KNCT 46 TX
 2145 KHTV 39 TX,
KEDT 16 TX, KWEX 41 TX

18 tr 0640 KCBJ 17 MO,
KDNL 30 MO, KRCG 13 MO,
KHNE 29 NE, WICS 20 IL

24 tr 2245 WAPT 16 MS,
KVUE 24 TX

25 tr 0800 KHIN 36 IA,
KCBJ 17 MO, WICS 20 IL,
KDNL 30 MO, KBIN 32 IA,
KRIN 32 IA, KMEG 14 IA
 0952 WFIE 14 IN,
WEHT 25 IN

Richard Noel Allen, Billings OK 74630 (CST) (November)

Receiver: Sony KV1212 color Antennas: 44-el.UHF log, 11-el.VHF log
01 tr 0548-0552 KTXS 12 TX 17 Es 1810-1830 WSJK 2 TN 18 tr 0737-0738 KIDZ 24 TX
17 tr 0535-0701 Dallas/Ft. 1851-1900 WBTW 3 NC 0737-0747 KAFT 13 AR
 Worth, Topeka, KC, & Joplin 18 tr 0653-0700 KRCG 13 MO xmtr Winslow AR
 Es 1750-1846 WUND 2 NC 0653-0725 KDNL 30 MO 25 tr 0658-0716 KDNL 30 MO
 1757-1830 WFMY 2 NC 0657-0725 KCBJ 17 MO 0710-0716 KFVS 12 MO

(continued on page 31)

NORTHERN FM-DX

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

January 1977

Unusually cold weather with rapidly moving weather systems from off of the polar ice cap has kept long haul tropo down to a minimum here in the Northeast. So far no Es noted in December. The only reliable DX has been MS. Only three reports arrived this month. I know some of you are holding back lots of reportable DX loggings. So if you live north of the Mason-Dixon line and east of the Mississippi River (MN WI IL IN MI OH PA NY VT NJ CT MA RI ME NH and Ont Que N.B. N.S. PEI NFD inclusive) please send in your reports now!

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

RX: Heathkit AJ-15; Ant: Delhi 1047 @ 30°; new underlined; Loggings on MS tape control unit asterisked; EDT to Oct. 29, EST after.

9/30 MS *KSLH 91.5 MO St. Louis (605) ID (Taped between 0730 & 1900)
10/1 *WRBL 102.9 GA Columbus (800) ID (Taped between 0000 & 0730)
10/4 KERA 90.1 TX Dallas (1130) (lasted nearly 2 minutes) rx, promo, hrd at 0733.
10/21 *KANU 91.5 KS Lawrence (820) ID, Time check at 1530
10/26 *WHKY 102.9 NC Hickory (540) (Taped between 0730 & 1700)
10/30 *WOI 90.1 IA Ames (670) Time check, ID (1st time by MS, previously by Es)
11/4 *WMBI 90.1 IL Chicago (375) ID (Taped between 0800 & 1730) hrd previously by Es
11/12 *WABE 90.1 GA Atlanta (710) (received on tape on 2 completely separate bursts between 0800 & 1800, both with good ID's)

Robert Eddy - Box 338 - Newport, OH 45768

For the past 4 months I've been experimenting with a 16 bay bowtie antenna for FM. The screen reflector is 20x37 ft. and held in place by three 30 ft. towers. The reflector is made of 2 in. chicken wire. Orientation is 75 deg. Gain averages 8-10 db over a CM Stereo probe-9 at 50 ft. F-B ratio and directivity are great. My eastern PA and MD loggings below were made on the bowtie array -- all were impossible on the Stereo probe because of cochannel QRM. Future plans call for dismantling the bowtie array and replacing it with a Laport rhombic capable of 27 db. gain (if constructed properly)

7/26	Es	2105	<u>KCIL</u>	107.1	CO ID	8/20	Tr	2340	<u>WNWZ</u>	92.5	NY rx
7/27		1929	<u>KCFR</u>	90.1	CO ID			2354	<u>CKGL</u>	96.7	ON k
		1944	<u>KYEZ</u>	93.7	K. ad, ID			2356	<u>WDYL</u>	92.1	VA g
		1950	<u>KTRC</u>	92.7	LA ID, rx	8/21	Tr	2356	<u>WRCV</u>	92.1	PA r, ID
		2009	<u>KULP</u>	96.9	TX ID	8/29	Tr	1700	<u>WCAR</u>	92.3	MI ID
7/30	Tr	2227	<u>WKOP</u>	100.3	KY ads	9/11	Tr	1814	<u>WKRW</u>	104.1	PA ID
		2305	<u>WINQ</u>	106.5	TN s/off	9/19	GW	2055	<u>WITB</u>	91.1	WV r
8/8	Tr	1835	<u>WERE</u>	98.5	PA wx	10/26	Tr	1801	<u>WDAC</u>	94.5	PA ID, rx
		1850	<u>WCRH</u>	90.5	MD rx, wx			1816	<u>WQCM</u>	96.7	MD r, ads
		2059	<u>WLAN</u>	96.9	PA ID			1856	<u>WGCB</u>	96.1	PA g
8/10	Tr	2131	<u>KTMO</u>	98.9	MO ads	10/31	Tr	1802	<u>WSBA</u>	103.3	PA ad, wx
		2229	<u>WMIY</u>	94.1	IL ad	11/9	Tr	1917	<u>WQQQ</u>	99.9	PA ad
		2243	<u>KEZK</u>	102.5	MO ad, rx	11/11	Tr	1958	<u>WWSH</u>	106.1	PA promo, ad
		2247	<u>WSVL</u>	97.1	IN ad, BB			2044	<u>WJBR</u>	99.5	DE ID
		2258	<u>WIL</u>	92.3	MO rx, ID	11/15	Tr	1938	<u>WVSP</u>	90.9	NC rx
		2300	<u>KFUP</u>	99.1	MO ID, c			1957	<u>WDCG</u>	105.1	NC rx
8/11	Tr	2000	<u>WHOP</u>	98.7	KY ID	11/17	Tr	1858	<u>WCPS</u>	104.3	NC rx, wx, ID
		2058	<u>WXTZ</u>	103.3	IN ID, rx	11/18	Tr	1859	<u>WBBC</u>	93.5	VA ID, rx
		2101	<u>WLEH</u>	96.9	IL ad, rx, wx			1907	<u>WWCS</u>	106.9	MD k
		2200	<u>WART</u>	98.3	IN BB, ID	11/22	Tr	1919	<u>WMNA</u>	106.3	VA rx
8/16	Tr	2126	<u>WDER</u>	103.7	IL ad, wx			1953	<u>WEQR</u>	96.9	NC annt
		2150	<u>WNES</u>	101.9	KY BB, ad			1959	<u>WDEM</u>	96.9	NC ad
8/20	Tr	2128	<u>WGBI</u>	101.3	PA r, ID	11/26	Tr	1508	<u>WUVT</u>	90.7	VA ID
		2142	<u>WBNB</u>	102.5	NY promo			1528	<u>WDM</u>	101.3	SC promo
		2159	<u>CJRT</u>	91.1	ON ID, j	11/27	Tr	2000	<u>WSTS</u>	96.5	NC g, ID
		2204	<u>CFCA</u>	105.3	ON rx, wx, ad			2328	<u>WDAS</u>	105.3	PA s.
		2301	<u>CKTB</u>	97.7	ON rx, wx, r	12/2	Tr	1934	<u>WLOS</u>	99.9	NC rx, ad, wx, ID, rx
		2331	<u>CKPC</u>	92.1	ON concert			2006	<u>WTZE</u>	100.1	VA rx
		2337	<u>WSEN</u>	92.1	NY wx, lcl annt	(Please include towns with your loggings - fn)					

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

Eq: RX - Heathkit AJ-1510, Ant - Winegard. New underlined. Total: 603.

9/2	Tr	0100	<u>WAED</u>	107.9	KY Ft. Campbell	9/6	Tr	0500	<u>WZRO</u>	104.9	IL Peking, k, \$
9/3		0000	<u>WTAS</u>	102.3	IL Crete, m\$			0000	<u>WROE</u>	94.3	WI Neenah, m, \$
9/5		0100	<u>KRVR</u>	106.5	IA Davenport, m\$	9/7	Tr	WKYG	<u>WKYG</u>	103.1	WV Parkersburg, k, \$

(The balance of report to appear next month - fn)

SOUTHERN FM-DX

EDITOR:

DAVE COX

January 1977

Send reports to: 2007-E Brandywine Ct.
Birmingham, AL 35216

Next deadline: January 10th
February 10th

November weather had a devastating effect on DX in the South as temperatures continued to drop during the month with below normal readings being the rule and record lows being set on several days in many areas. Good conditions were further hindered in forming by an increase in precipitation (usually rain, but in some cases, snow and sleet).

It was, all in all, a very bad month for DXing. There were even no reports this month of short (100-200 mile) tropo. November was not, however, totally DXless as the efforts of Ken Simon brought him an off-season Es opening producing several loggings into the Midwest and Canada.

Kenneth R. Simon, 528 Pilgrim Road, West Palm Beach, FL 33405 EST

11-24-76

Es 1554 90.5 WKAR East Lansing MI \$,c mention of MSU, time (EST) & temp

1555 89 unID ? classical

1559 90.3 WBCL Fort Wayne IN #132 contest info, ID

1615 skip appeared to be gone by this time, but ...

1633 91.1 unID ? ag report; QRM-WLRN

1635 88.7 CJOM Windsor ONT m; with weather and ID

1658 91.1 CJRT Toronto ONT c; music, ID, then children's show; in til 1710

It's good to hear some FM skip again!!!

Congrats on the skip, Ken. Maybe, if we're lucky, it is a sign that the winter skip season will be a strong one.

Hope everyone had a Merry Christmas. Be sure to let everyone know about the DX and the new equipment Santa Claus brought to your house.

Happy New Year and Best of DX

Dave

MEMORABILIA

January 1977

Robert J. Williams
251 6th Avenue East
Twin Falls, Idaho 83301
Phone: (208) 733-3621
Deadline: 15th of month

Here is a QSL card that I (your "Memorabilia" editor) received in 1970 from WKY-4 (now KTVY):

VERIFICATION OF RECEPTION

Thank you for your report of 6/3/70 advising us of your reception

of WKY-TV in Blackfoot Idaho

Transmitter and studio location: 500 East Britton Road,
6 miles North of Oklahoma City.

Frequency: 66-72 megacycles — Channel 4.

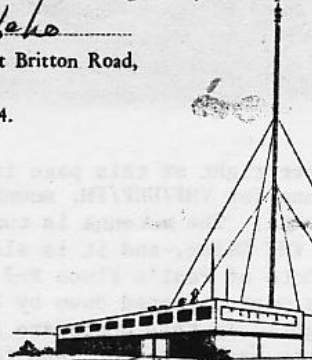
Video Power: 100,000 watts.

Audio Power: ²⁰100,000 watts.

Tower Height: ⁷⁰⁰⁰50 feet.

WKY-TV

500 EAST BRITTON ROAD
OKLAHOMA CITY, OKLA.



How about sending in old PHOTOS of TV-DX of years gone by, guys? This is YOUR column, and old station IDs and test patterns (even though the station has since changed call, channel, etc.) would be MOST welcome. Of course, don't stop sending other material either, as it all makes this column what it is. Response has been very good so far, keep it up. 73s, Bob.

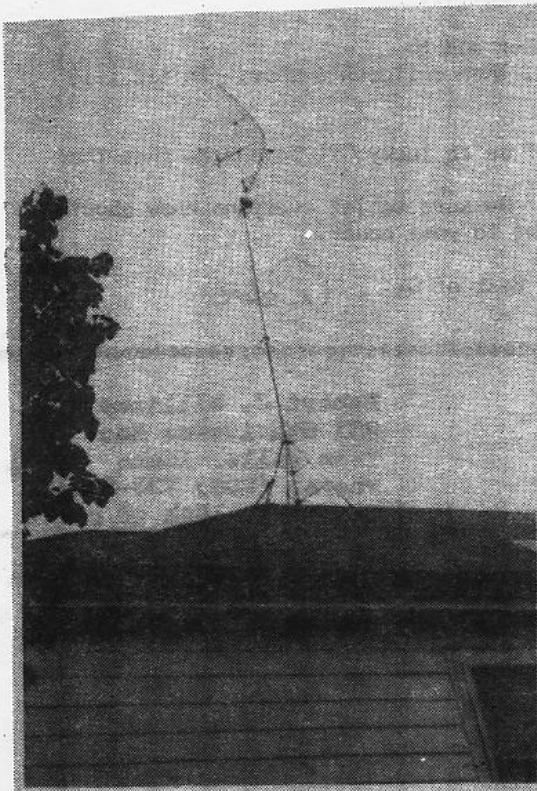
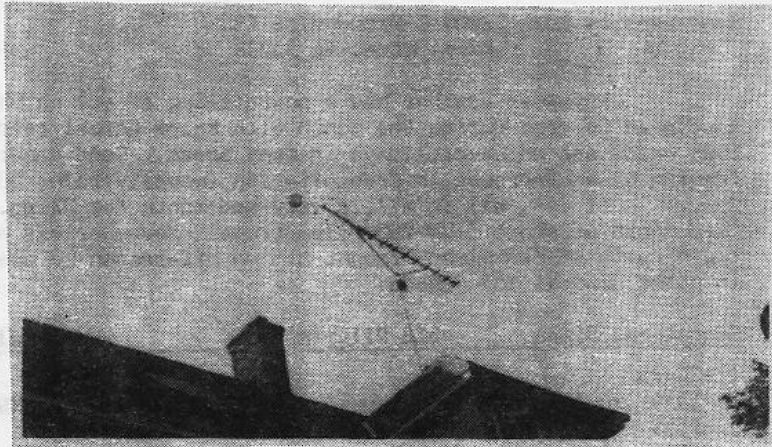
PHOTO-NEWS

Jim Alexander
4 Brook Court
Parsippany NJ 07054

January, 1977

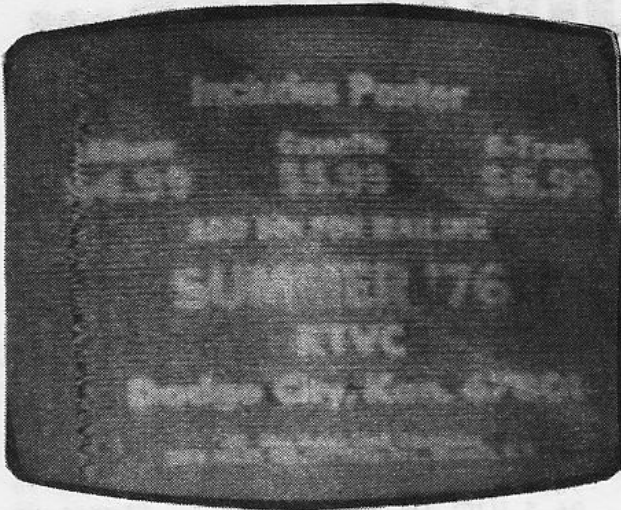
Feature:

This month, PHOTO-NEWS pays its second visit to Buffalo, NY. Paul Traska's antenna system and DX "shack" are this month's feature material. Details of the equipment shown are at the bottom of this page.



At the upper right of this page is a photo of a Channel Master model 366IG 34 element antenna for VHF/UHF/FM, mounted at 40°. A Winegard AC-895B amplifier is fed by this antenna. The antenna is turned by an Alliance C-225 rotor. Paul uses the antenna for VHF DXing, and it is also used for program viewing by the family. At the left is a photo of Paul's Finco P-7 7° parabolic and CMA-Ub. The dish is mounted at 50°, with its mast anchored down by 8 guy wires. Part of Paul's DX "shack" is shown at the right. In this photo are at the upper left a 12" Sharp TV, with a Panasonic cassette tape recorder just to the right of the Sharp. Below these is a 17" RCA color TV, and at bottom on the left the rotor control box for the RCA model 10W707 (which turns the dish), and to the right, the power supply of the CMA-Ub. By the way, if the mast the 7° dish is mounted on appears slanted, Paul notes that it actually is not, but came out that way in the picture.

PHOTO-NEWS continues with a page of TV-DX...



KTVC- 6 Dodge City, KS
1,115 mile Es
6/28/76, 1320 EDT (EB)



KWIX-10 Waco, TX
440 mile tropo (RL)



WTUV- 9 Tupelo, MS
465 mile tropo
9/15/74 (JG)



WKBS-48 Philadelphia, PA
440 mile tropo (PG)



CKBQ- 2 Melfort, SK
Es
7/7/76, 2130 PDT (FA)

Contributors:

- EB = Ed Brindle, Latrobe PA
- RL = Ron LeBlanc, Marrero LA
- JG = Jim Gould, Kokomo IN
- PG = Paul Gaines, Detroit MI
- FA = Frank Aden, Bend OR

My thanks to Paul D. Traska,
Buaffalo NY for providing this month's
feature material.

73 and good DX,

Jim

The FM Non-IDers...

Below is a complete listing of all FM stations known by WTFDA sources to use non-identifying slogans, or non-IDs, in lieu of their assigned call letters, except as required by the FCC or DOC at the top of each hour. This compilation supersedes two previous VUD listings (June 1975 and April 1976). Our thanks to the following contributors: Rod O'Connor, Dave Cox, Mike Dalton, Bill Dickerman, Harry Hayes, Clint McAuliffe, and John Zondlo; and a special tip of the hat to Bruce Elving and his FM ATLAS for a wealth of information.

FREQ	CALL	LOCATION	NON-ID	FREQ	CALL	LOCATION	NON-ID
89.9	WJCT	FL Jacksonville	Stereo-90	95.7	WKSS	CT Meriden	Kiss
90.7	WKGK	FL Panama City	Stereo-90.7	95.7	WZZM	MI Grand Rapids	Z-96
91.1	KCSM	CA San Mateo	FM-91	95.7	KKAJ	OK Ardmore	K-J
91.3	WSSU	WI Superior	91-S	95.9	WLEQ	FL Bonita Springs	Super-Q
92.1	WBTR	GA Carrollton	Music-92	96.1	WTAE	PA Pittsburgh	96-Kicks
92.1	WFEM	PA Ellwood City	C-92	96.3	WMJX	FL Miami	96-X
92.3	WDBO	FL Orlando	Stereo-92	96.3	WBBM	IL Chicago	FM-96
92.3	KBBK	ID Boise	Rock-92	96.5	WJCL	GA Savannah	Stereo-96
92.3	WYCA	IN Hammond	FM-92	96.5	WKDD	OH Akron	96-KD
92.3	WKTU	NY New York	FM-92	96.5	KRAV	OK Tulsa	FM-96
92.5	KPQX	MT Havre	QX	96.5	KAUM	TX Houston	FM-96½
92.5	KAFM	TX Dallas	K-92	96.7	WQCM	MD Halfway	97-Q
92.7	WOXO	ME Norway	93-X	96.7	KXGR	MN Grand Rapids	Kix-96
92.7	WRHY	PA Starview	FM-92	96.9	WGRQ	NY Buffalo	QFM-97
92.9	WZGC	GA Atlanta	Z-93	96.9	WXTC	SC Charleston	FM-97
92.9	KFMD	LA Dubuque	D-93	97.1	KWXI	TX Fort Worth	FM-97
92.9	KFYR	ND Bismarck	Y-93	97.3	WAIA	FL Miami	W-A-1-A
92.9	KKDQ	ND Grand Forks	93-Q	97.3	KEEZ	TX San Antonio	Rock-97
92.9	WJAI	OH Eaton	WJ-93	97.5	WZOK	IL Rockford	FM-97
92.9	KSPZ	CO Colorado Springs	Z-93	97.5	CJOB	MB Winnipeg, CANADA	OB
93.1	WPOC	MD Baltimore	FM-93	97.7	WKEU	GA Griffin	Q-97
93.3	WQUE	LA New Orleans	Q-93	97.7	WTCQ	GA Vidalia	98-Q
93.3	KSJM	ND Jamestown	Stereo-93	97.9	KUPD	AZ Tempe	K-100
93.3	WIZM	WI La Crosse	Z-93	97.9	WLHN	IN Anderson	Stereo-98
93.5	WSEA	DE Georgetown	Sea-93	97.9	WBAL	MD Baltimore	FM-98
93.5	WWWZ	SC Summerville	3-W-Z	98.1	WQHQ	AL Andalusia	Q-98
93.7	KMOT	ND Minot	M-93	98.1	WQSM	NC Fayetteville	Q-98
93.7	WMYK	NC Elizabeth City	K-94	98.1	KSLQ	MO St. Louis	Super-Q
93.9	KPIK	CO Colo. Springs	Super-K-94	98.1	WCAU	PA Philadelphia	FM-98
93.9	WKYS	DC Washington	93-KYS	98.1	WTVR	VA Richmond	FM-98
94.1	WHFI	MI Jackson	FM-94	98.3	WIOK	NY Hempstead	OK-98
94.1	KXTZ	NV Henderson	FM-93	98.5	WGCL	OH Cleveland	G-98
94.1	KOL	WA Seattle	K-92	98.5	WYCR	PA Hanover	98-5-YCR
94.1	CBL	ON Toronto, CANADA	CBC-FM	98.7	WMOD	DC Washington	FM-98
94.3	KVFM	CA San Fernando	Valley-94	98.7	WXLO	NY New York	99-X
94.3	KZZQ	LA Golden Meadow	Z-94	98.7	KCPX	UT Salt Lake City	Stereo-X
94.3	WWOC	NJ Avalon	Stereo-94	98.7	WNOR	VA Norfolk	FM-99
94.5	KWKH	LA Shreveport	94-WKH	98.9	KLTA	CA Dinuba	Stereo-99
94.5	WRVQ	VA Richmond	Super-Q, Q-94	98.9	WHBF	IL Rock Island	Rock-100
94.5	KSTP	MN St. Paul	KS-95	98.9	WPBS	PA Philadelphia	FM-99
94.7	WMJC	MI Birmingham	Magic Radio	99.1	KUAD	CO Windsor	Quad-99
94.7	KYTN	ND Grand Forks	Y-95	99.1	WQIK	FL Ft. Lauderdale	Q-99
94.9	WKSJ	AL Mobile	Country-95	99.3	WSNN	NY Potsdam	Stereo-99
94.9	WINZ	FL Miami Beach	Zeta-4	99.3	WGGQ	WI Waupun	99-Q
94.9	WLCY	FL Tampa	Y-95	99.5	WVOK	AL Birmingham	K-99
94.9	WPCH	GA Atlanta	Peach	99.5	WQYK	FL St. Petersburg	K-99
94.9	KFXD	ID Nampa	XD-FM	99.5	WKDQ	KY Henderson	Super-Q
94.9	KBIM	NM Roswell	FM-95	99.7	KFMH	IA Muscatine	99+ Stereo
95.1	WINE	CT Brookfield	95-INE	99.7	WMC	TN Memphis	FM-100
95.1	WEZV	PA Bethlehem	EZ-95	99.9	KGOR	NE Omaha	99-KG
95.1	WPXI	SC Charleston	Soul-95	99.9	KTQM	NM Clovis	Q-100
95.1	WLST	WI Marinette	FM-95	99.9	KISW	WA Seattle	FM-100
95.3	WCRM	MI Clare	FM-95	100.1	WLKI	IN Angola	FM-100
95.3	WLRQ	MI Whitehall	Super-Q	100.3	KIQQ	LA Los Angeles	K-100
95.5	KYNO	CA Fresno	Rock-96	100.3	KLIR	CO Denver	FM-100
95.5	KXXK	CO Denver	96-KX	100.3	WDIZ	FL Orlando	Rock-100
95.5	WSGF	GA Savannah	FM-95	100.3	WL00	IL Chicago	W-100

FREQ	CALL	LOCATION	NON-ID	FREQ	CALL	LOCATION	NON-ID
100.3	WNIC	MI Dearborn	FM-100	105.7	KXEL	IA Waterloo	X-Rock
100.3	KQFM	OR Portland	Stereo-Q-100	105.7	WWCT	IL Peoria	Kick-106
100.3	KMEZ	TX Dallas	EZ-100	105.7	WWWM	OH Cleveland	M-105
100.5	KRSJ	CO Durango	J-100	105.7	WQXA	PA York	Q-106
100.5	KJAK	OK Oklahoma City	The Cat	105.9	WEZI	TN Memphis	FM-106
100.7	KFMB	CA San Diego	B-100	106.1	KFRC	CA San Francisco	K-106
100.7	KZLO	CO Pueblo	Z-100	106.1	WXYX	NC Wilson	Y-106
100.7	WHYI	FL Ft. Lauderdale	Y-100	106.1	KIOF	TX Orange	K-106
100.7	WBIZ	WI Eau Claire	Z-100	106.1	KLAY	WA Tacoma	K-106
101.1	WWDC	DC Washington	DC-101	106.3	WRCK	AL Sheffield	106-Rock
101.1	WCKS	FL Cocoa Beach	CK-101	106.3	WIOG	MI Saginaw	W-106
101.1	WAKQ	KY Russellville	KQ-101	106.5	WMAR	MD Baltimore	FM-106
101.3	KIOI	CA San Francisco	K-101	106.5	KOOI	TX Jacksonville	K-1
101.3	WWDM	SC Sumter	Q-101	106.5	WDLB	WI Marshfield	FM-106
101.5	KFLY	OR Corvallis	K-12	106.7	KLZ	CO Denver	Z-107
101.5	KOXE	TX Brownwood	Coax-101	106.7	WWWW	MI Detroit	W-4
102.1	WMBJ	IL Danville	Concept-102	106.7	WWKS	PA Beaver Falls	Kiss
102.1	WIOQ	PA Philadelphia	Q-102	107.1	WTAI	FL Melbourne	Rock-107
102.1	KFWD	TX Ft. Worth-Dallas	FM-102	107.1	KCCQ	IA Ames	Q-107
102.1	KLOZ	TX El Paso	K-102	107.1	WMQT	MI Ishpeming	FM-107
102.1	WRXL	VA Richmond	XL-102	107.3	WQLT	AL Florence	Q-107
102.1	KYYS	MO Kansas City	KY-102	107.3	WMAL	DC Washington	FM-107
102.3	WGUS	GA Augusta	102-G	107.3	WFAW	WI Ft. Atkinson	FM-107
102.3	WQTC	WI Two Rivers	15-Q	107.5	WSGH	NC Winston-Salem	FM-107
102.5	WQSR	FL Sarasota	Quad-102½	107.7	KSWT	KS Topeka	K-Sweet
102.5	WFMF	LA Baton Rouge	FM-102	107.7	WNCT	NC Greenville	FM-107
102.5	WBEN	NY Buffalo	Rock-102	107.9	KXOA	CA Sacramento	K-108
102.5	KZOK	WA Seattle	OK-102½	107.9	WIRK	FL W. Palm Beach Country	K
102.7	KAFG	OK Oklahoma City	K-103	107.9	WGMZ	MI Flint	Stereo-108
102.9	KQCR	IA Cedar Rapids	Q-103	107.9	KCIR	TX Corsicana	K-108
102.9	WZZQ	MS Jackson	Q-102				
102.9	KIOZ	WY Laramie	K-102				
103.1	WHKC	KY Henderson	KC-103				
103.1	WSTM	KY St. Matthews	Disco-103				
103.1	WWRW	WI Wisconsin Rapids	W-103				
103.3	KKTU	CA Ukiah	K-2				
103.3	WVEE	GA Atlanta	V-103				
103.3	WTGI	LA Hammond	Love Radio				
103.3	WYSL	NY Buffalo Musicradio	Y-103				
103.5	KOAQ	CO Denver	Q-103				
103.5	WFYR	IL Chicago	Fire Radio				
103.7	KOZN	CA San Diego	Z-104				
103.7	KGRA	LA Lake Charles	Nova-104				
103.7	WQEN	AL Gadsden	Q-103				
103.7	KKYK	AR Little Rock	Rock-104				
103.9	KHEX	CA Yuba City	FM-104				
104.1	WIOF	CT Waterbury	W-104				
104.1	WGLF	FL Tallahassee	Quad-104				
104.1	WXXW	PA Allentown	W-104				
104.1	WZEE	WI Madison	Z-104				
104.3	WDJQ	MD Baltimore	Q-104				
104.3	KBEQ	MO Kansas City	Super-Q				
104.3	WKGW	NY Utica	KG-104				
104.3	KERI	WA Bellingham	K-104				
104.5	WQUD	TN Memphis	Quad-104				
104.5	WQRK	VA Norfolk	Super-Q				
104.7	WRBQ	FL Tampa	Q-105				
104.7	WAGQ	GA Athens	Q-105				
104.7	WBOC	MD Ocean City	FM-105				
104.7	WKFM	NY Fulton	FM-Rock				
104.7	KVMT	CO Vail	K-104				
104.9	WHCG	GA Metter	G-105				
104.9	WWWY	IN Columbus	Tri-W-Y				
104.9	WCVO	OH Gahanna	FM-105				
105.1	WBJW	FL Orlando	BJ-105				
105.1	WILQ	PA Williamsport	Q-105				
105.1	WPJB	RI Providence	JB-105				
105.5	WXTQ	OH Athens	Q-105				

COMMENTS: This listing shows 212 non-IDers, as opposed to 31 in the June, 1975 listing and 72 in the April VUD. Clearly, the practice is quickly proliferating, spreading from big-city stations to rural areas--indeed, to locations with but one radio station. Hardest hit are these areas: Florida (the entire state, with non-IDers in almost every city), Colorado (again, the entire state, particularly the Denver/Pueblo/Colorado Springs/Vail area), California (along the coast from San Francisco to San Diego) and virtually every large metropolitan area, plus isolated cases in AL, GA, ND, etc. A few major markets have been saturated with non-IDers, among them Baltimore/Washington and Norfolk. As one station in a market begins the practice, it can be expected that a number of competitors will mimic the move; hence the idiocy in Colorado and other places. Few frequencies remain unplagued by these nuisances, making for DX problems when more than one station on the same frequency are using the same non-ID. In such cases, one must rely on musical formats and network affiliations, which can be found in the FM ATLAS. Corrections to this listing are welcomed at 5201 Colewood Drive, Pittsburgh, PA 15236. As always, your comments are welcomed.

73, *Clarke*

INTERNATIONAL NOTES from

Ken Simon, 528 Pilgrim Road
West Palm Beach, FL 33405
(305) 585-7415 Jan. 1977

This month's maps from KEITH HAMER of England cover television in RUMANIA and YUGOSLAVIA. If any WTFDAer is in Europe, Keith's phone number in Derby is 44 332 53399. I'm sure Keith would be glad to hear from any DXers.

ROGER BUNNEY's new book LONG DISTANCE TELEVISION is now available for about one pound ten pence postpaid (that's about \$2). It makes a great companion to Keith Hamer's book on worldwide test cards. Keith can order Roger's book if you want it. REMEMBER: F2 skip will soon be feasible on low band Europe stations. Anyone have any ideas on easy-to-build converters?

SCOTT CLARKE, director of engineering at the West Indies Television Network sends the following note via JOHN COMBS of Orlando:

"Our network's three transmitters are as follows: PJF-TV channel 3 on Saba, NWI; PJD-TV channel 7 on the Dutch side of St. Maarten; and ZBTW channel 5 on Tortola, British Virgin Islands."

PJF-TV	channel 3	12.5 kw ERP	antenna at 1,500 ft. ASL
PJD-TV	channel 7	0.1 kw ERP	antenna at 1,100 ft. ASL
ZBTW	channel 5	15.0 kw ERP	antenna at 1,300 ft. ASL

Normal hours for channels 3 and 7 are: Monday through Thursday, 1500-2300 AST, Friday 1500-0030, Saturday 1600-0030 and Sundays 0930-1330 and 1530-0000. All programming is in ENGLISH.

Sign-on and sign-off are preceded by color bars and tone tests. Logo at right is used at station breaks, usually with an island scene and voice-over announcement. The studio in Phillipsburg on St. Maarten feeds channel 3 via microwave and channel 7 via a UHF translator on channel 82!

Channel 5 is expected back on the air by mid-November after studio and transmitter work. Programs include Gomer Pyle, 700 Club, Sesame Street, Soul Train, Hogan's Heroes, Donahue, Perry Mason, Twilight Zone, Wrestling from Florida, and Sea Hunt. Church services are carried on Sundays and NFL football Mondays.



TV-3 IS ALIVE

These all appear within skip distance, except for channel 7. Bob Cooper can set his sights on channel 82, hi! The stations' address for all seeking QSLs is: West Indies Television Network, Television House, Phillipsburg, St. Maarten, Netherlands West Indies.

Had a visit in November from member RICHARD CLARK. He, his wife Esperanza and little Ricardito are now in the Dominican Republic at Puerto Plata on the north coast. He said he would forward DX reports from the new location.

NICK SHESTOPLE, a non-DXing stamp collector who is stationed in Ansbach, West Germany, says that most AFN (American Forces Network) stations are UHF, low-power, narrow-beam operations on armed forces bases. (Translators?) Several cable systems exist also. We hope to have an AFN schedule soon.

DOUG EVERITT, Western TV editor, has Europe on the mind. First it was Greece but a letter today says it might be northwestern Europe. He says he'll send information on local TV systems wherever he goes.

JOHN COMBS will soon have some simple music of the first couple of bars of major national anthems. If you've never heard La Bayamese, you might not know you're seeing Cuba. They won't be fancy since I don't read music...

73's for now. Keep those letters coming, and I hope you all had a happy holiday season and plenty of midwinter Es!

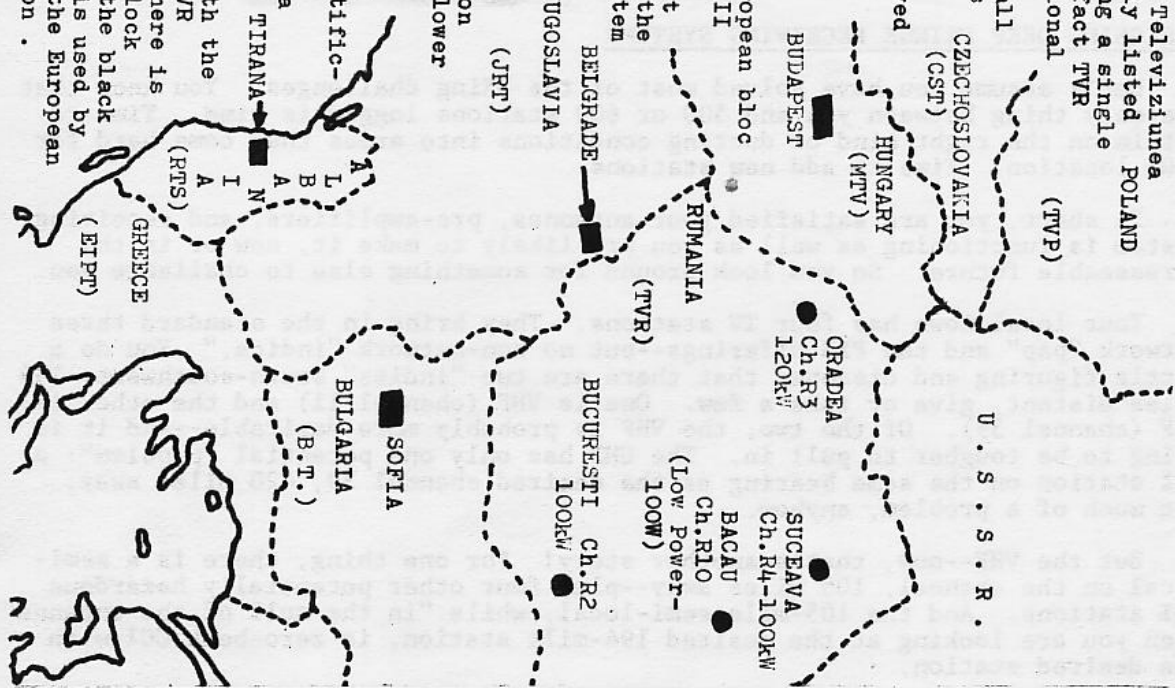
Radiodifuziunea Televiziunea Romana is usually listed as only operating a single Network, but in fact TVR do have two National Services.

At the moment, all the transmitters are in Bands I (Low Band), II (normally reserved for FM radio broadcasts in Western Europe but used for television in many Eastern European bloc countries) and III (High Band).

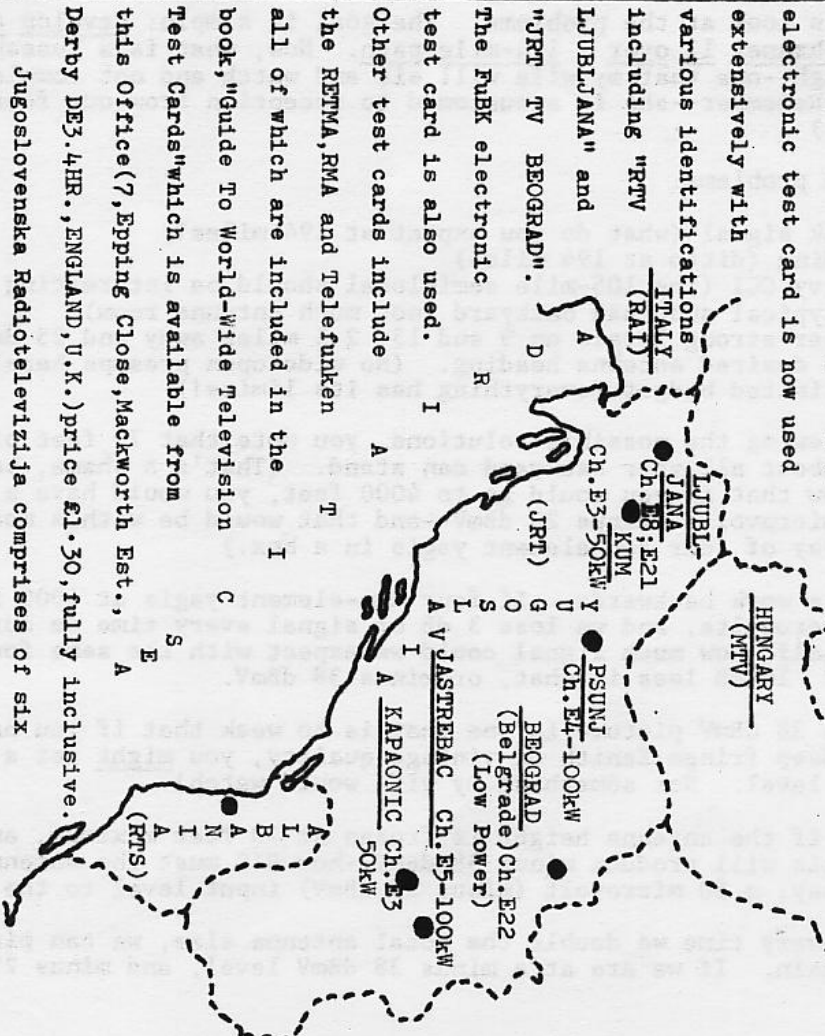
TVR do transmit in colour using the SECAM Colour System and the Philips PM5544 electronic test card (or test pattern) is used. The identification is "TVR" in the lower centre.

The TVR Clock caption does not include any identification.

Radiodifuziunea Televiziunea Romana also use the "EBU Bar" with the identification "TVR BUCURESTI" and there is also a digital clock superimposed on the black bar. The EBU Bar is used by most Members of the European Broadcasting Union.



Jugoslovenska Radiotelevizija use several different test cards (test patterns), all of which have identification. The Philips PM5544 electronic test card is now used extensively with various identifications including "RTV LJUBLJANA" and "JRT TV BEOGRAD".



The FuBK electronic test card is also used. Other test cards include the RETMA, RMA and Telefunken all of which are included in the book, "Guide To World-Wide Television Test Cards" which is available from this Office (7, Epping Close, Mackworth Est., Derby DE3.4HR., ENGLAND, U.K.) price £1.30, fully inclusive.

Jugoslovenska Radiotelevizija comprises of six Members which are as follows:-

- Radiotelevizija Beograd
- Radiotelevizija Zagreb
- Radiotelevizija Ljubljana
- Radiotelevizija Skopje
- Radiotelevizija Titograd
- Radiotelevizija Sarajevo.

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OCTOBER-----1976
Derby-England-(UK).

Bob's Tek-Notes

by Robert B. Cooper, Jr.

DESIGNING DEEP FRINGE RECEIVING SYSTEMS

Let's assume you have solved most of the DXing challenges. You know that the only thing between you and 500 or 600 stations logged is time. Time to sit in on the right kind of ducting conditions into areas that come hard for your location. Time to add new stations.

In short, you are satisfied your antennas, pre-amplifiers, and receiving system is functioning as well as you are likely to make it, now or in the foreseeable future. So you look around for something else to challenge you.

Your local town has four TV stations. They bring in the standard three network "pap" and the PBS offerings--but no non-network "indies." You do a little figuring and discover that there are two "indies" south-southwest: 194 miles distant, give or take a few. One is VHF (channel 11) and the other is UHF (channel 39). Of the two, the VHF is probably more desirable--and it is going to be tougher to pull in. The UHF has only one potential "problem": a CCI station on the same bearing as the desired channel 39, 420 miles away. Not much of a problem, anyhow.

But the VHF--now, that's another story! For one thing, there is a semi-local on the channel, 105 miles away--plus four other potentially hazardous CCI stations. And the 105-mile semi-local, while "in the null of the antenna" when you are looking at the desired 194-mile station, is zero-beat CCI with the desired station.

So let's look at the problems. The goal is simple: develop a useable signal on channel 11 over a 194-mile path. Now, what is a "useable" signal? Simple enough--one that my wife will sit and watch and not complain about the quality! (Remember--she is accustomed to reception from our four locals 2.1 miles away.)

Now the problems:

- (1) Weak signal (what do you expect at 194 miles?)
- (2) Fading (ditto at 194 miles)
- (3) Heavy CCI (the 105-mile semi-local should be interesting to solve)
- (4) A typical suburban backyard (not much antenna room)
- (5) Super-strong locals on 9 and 13, 2.1 miles away and 25 degrees off the desired antenna heading. (No wide-open preamps here!)
- (6) A limited budget (everything has its limits!)

In reviewing the possible solutions, you note that 70 feet of antenna height is about all your backyard can stand. (That's a shame, because calculations show that if you could go to 4000 feet, you would have a fairly constant 100 microvolts--minus 20 dBmV--and that would be with a modest 40-element antenna array of four ten-element yagis in a box.)

So let's work backwards. If four ten-element yagis at 4000 feet would produce 100 microvolts, and we lose 3 dB of signal every time we cut the antenna height in half, how much signal could we expect with the same four-stack array at 70 feet? 18 dB less is what, or minus 38 dBmV.

A minus 38 dBmV picture is one that is so weak that if you happen to own a very good deep fringe Zenith of vintage quality, you might get a frame bar at this input level. Not something my wife would watch!

OK, so if the antenna height is frozen at 70 feet maximum, and four ten-element yagis will produce minus 38 dBmV--how BIG must the antenna array be to maintain, say, a 50 microvolt (minus 25 dBmV) input level to the pre-amplifier?

Well, every time we double the total antenna size, we can pick up as much as 3.0 dB gain. If we are at a minus 38 dBmV level, and minus 25 dBmV is our

goal, we have 13 dB to make up. So make it eight ten-element yagis, and we'll add up to 3 dB--now we are at minus 35 dB. Now go to sixteen ten-element yagis and we are at minus 32 dB.

Hmmm--at this rate we will end up with 128 ten-element yagis to get our signal up to the minus 23 dBmV level (64 would be minus 26 dBmV). That is not only a lot of antennas, but the backyard is not big enough to hold them all. Not to speak of the budget (even super wholesale, Winegard model SCX-11 yagis aren't cheap!).

OK--time to do something tricky. If we put in two arrays of 16 ten-element yagis each (160 elements per array, 320 elements total) but space the two 160-element arrays apart for diversity reception, we may realize as much as 10 dB gain for the increase from 16 to 32 yagis. To get 10 dB diversity plus stacking gain, we will have to place the two 16-yagi arrays at least 20 wavelengths (at channel 11) apart, along a line that bisects at 90 degrees the true antenna heading between my receiving location and my distant channel 11. When all is working correctly, this will give me exactly minus 25 dBmV input. Not a great deal of safety margin in that, but my budget can better stand it.

Now each set of four yagis will be treated as a separate antenna system, with four sets of four making up one "bank" of antennas. All antennas are 75-ohm input (Winegard's SCX series is switch-selectable for either unbalanced 75-ohm--coax--or 300 ohm balanced--twinlead), so matching a set of four is as simple as using a 4-way hybrid splitter backwards, as a signal combiner.

When we add up the phasing line losses, however, we see that by the time we combine four fours together into sixteen, and then the two sixteens into 32 antennas, diversity-fed, even using .412 aluminum coax (very low loss) for phasing lines, we have nearly 2 dB phasing line loss!

Hmmm. That almost wipes out the extra antenna gain of the second set of sixteen yagis.

To compensate for this, each bank of sixteen antennas will have its own low-noise preamplifier. We could carry this even further and give each four-antenna sub-bank its own low-noise preamplifier, and we may before we get all done. This will give us back most of the loss in the phasing lines; at least enough to still make the second bank of 16 worthwhile.

Now the pre-amplifiers. Using the relatively new Siliconix U-310 j-fet, we know that a 1.0 dB noise figure 30 dB gain mast-mounted pre-amplifier for channel 11 is quite simple. A standard product, as it were, of advanced CATV engineering.

So allowing for feedline and phasing line combiner losses, we can reasonably expect minus 25 dBmV plus 30 dB of gain or plus 5 dBmV (1800 microvolts) at the input to the receiver down line. With 1.0 dB of down line loss, that is around 1500 microvolts delivered to the receiver.

Hmmm. So far, so good. A 50-microvolt signal (minimum expected 95% of the time) is adequate for good color, provided it goes into a very low-noise pre-amplifier. But, unfortunately, a signal that weak is very susceptible to the least little bit of degradation--such as co-channel interference. (And lots of other things too, such as cars, lawnmowers, and low-flying geese!)

The clean, simple pattern of a single ten-element yagis becomes more complicated when you stack additional yagis. The directional pattern of one runs into the directional pattern of the other(s), and patterns overlap, causing minor, new, unexpected (or unpredictable) lobes. To get rid of the 105-mile zero-beat CCI will require precise pattern control; achievable with a single bank of antennas, but made much more complicated when the array is a diversity array in which 16 yagis on one bank are separated by 20 wavelengths (60 feet or so) from the second bank. In wide open terrain, on top of a hill, you can control these factors quite nicely. In a suburban area with power lines, a church steeple or two and neighborhood rain gutter down spouts all messing up the "true ground," it is going to be quite a different matter.




(continued on page 30)

UNIDENTIFIED DX



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

January 1977
 HAPPY NEWYEAR!

- Doug Everitt, 1708 W. Maine, Enid OK 73701 (1976 UNIDS)
 Sun Nov 14 ES ch 2 1153 CST--"APTN" Slide with 400 Hz tone. WDIQ? Yes it is, schedules show APTN stations sign on at 1200 CST (FEA). 
- Robert Williams, 251 6th Ave. East., Twin Falls ID 83301 (1976 UNIDS)
 Mon May 17 ES ch 4 1920 MDT--In progress "On the Rocks" KDUH? KSNB? KNOP in at 1918. Schedules for KDUH & KSNB here are for June 5-11; "On the Rocks" went off the air with this show (FEA).
- Mon Jun 7 ES ch 4 1939 MDT--In progress "Wild Kingdom" KVOA? KNBC? KNBC, KRON, KVOA, KOB, KOA & KCRL are negative (FEA).
 ch 3 1940 MDT--"Concentration" KIII? KTVK? KEYT? KTVK checks; others negative (FEA).
 ch 2 2002 MDT--News in progress. KOAI? KOAI is negative; I would suspect this may be an EDT station (FEA). 
- Tue Jun 8 ES ch 5 2000 MDT--End of "One Day at a Time". KENS? KENW in at 1959, KACB in at 2033. PTA: Texas CBS station. KENS checks (FEA).
- Wed Jun 9 ES ch 4 1742 MDT--"Wild Kingdom" in progress. CHFD? CBWT-2? WIMJ? CKYB? KXJB in at 1722, CBWFT in at 1800. WIMJ checks; others are negative (FEA).
 ch 3 1747 MDT--"Beverly Hillbillies" CKOS? WJMN? WKZO? KDLO? KGLO? PTA: SK, MI, SD, IA. All areas negative (FEA).
 ch 3 1945 MDT--"Concentration" CKCK in at 2028. PTA: SK, MI, MN, WI, SD, IA. All areas are negative (FEA). 
- Sat Jun 12 ES ch 2 1320 MDT--Movie in progress with Karl Malden. UNID at 1320 with ad for "KING OPTICAL" on Felix St.
- Sun Jun 13 ES ch 3 1308 MDT--Program about Senior Citizens, exercise etc. KLINE? KENW? Both are negative (FEA).
 ch 2 1329 MDT--Wrestling, jiu-jitsu or judo. KQTV? KTEW? KTVI? KCKT? KTEW in at 1409. All stations are negative as with KPRC & KMID (FEA).
 ch 3 1333 MDT--Program similar to above. NBC station. KYTV? KARD? KMTV? All are negative as with KACB and KFDX; may be a program change from regular schedule (FEA).
 ch 3 1422 MDT--Movie with Humphrey Bogart. KYTV? KARD? KMTV? KTEW in at 1409, KGFE in at 1459. No schedules here for this date (FEA).
 ch 2 1630 MDT--"FBI" act III started. CKCK? KTEW? KQTV? KTVI? KCKT? CKPR? KGFE in at 1459, CBWT in at 1513, KTVY in at 1658. PTA: SK, MAN, ONT, OK, MO, KS, NE, IL, WI, ND, IN. Schedules for these areas are negative but many sports specials make it impossible to tell if any of the stations do run "FBI" at this time (FEA).
- Sat Jun 26 ES ch 3 0927 MDT--"Sesame Street" KENW? KLINE? KFDX in at 1000. KENW runs it at 0800, KLINE has it at 0600. TX stations are negative (FEA).
 ch 3 0933 MDT--"Mister Rogers Neighborhood" KENW? KLINE? KENW checks; KLINE is negative (FEA).
 ch 3 2114 MDT--Movie with Lucille Ball. KATC? WREC? WLBT? KFDX? KBTX? KIII? KTBS in at 2124. PTA: S. Cen. USA. Schedules not available here for this date (FEA).
- Sun Jun 27 ES ch 4 1008 MDT--"Oral Roberts" KBTX in at 1059. PTA: TX, OK, ARK, TN. Stations in these areas and MO are negative (FEA).
 ch 3 1202 MDT--Movie with a Santa Claus in it (Mr. Kringle) then an offer where viewers could send for a Resurrection Plant. KFDX? KBTX? KTBS? KIII? KATC? KACB? PTA: TX LA. KDFW in at 1154.
 ch 3 1244 MDT--Movie with John Wayne. KTIV in at 1258.
 ch 4 1322 MDT--Golf in progress. Chris Schenkel MC. Promo for "SWAT" KDLO in at 1336. PTA: NE, SD, ND, SK, MAN. Probably not a regularly scheduled program (FEA).
- Mon Jul 5 ES ch 2 1742 MDT--"Partridge Family" CKOS in at 1730. CKSA checks (FEA).
 Wed Jul 7 ES ch 3 2133 MDT--Movie with Ricardo Montalban. KMID in at 2105. PTA: NM, TX.
 Wed Jul 21 ES ch 6 1349 MDT--Game show. PTA: KS, NE, OK. KOA in at 1335, KTVY in at 1358. KTVG, KOTV, WOWT all have "Match Game" at 1330 (FEA).

David Egan-92 Joron-Valleyfield, PQ
Al Ellis-19 McClure Ave.-Brantford, ON N3R 4L7
Bruce Elving-Box 24-Adolph, MN 55701
Donald E. Erickson-6059 Essex St.-Riverside, CA 92504
Richard C. Evans-Box 392-New Buffalo, MI 49117
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Stephen Francis-1620 Lodge St.-Alcoa, TN 37701
Paul Gaines-c/o C.P. Cleaning-15920 Puritan-Detroit, MI 48227
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Ron Ginardi-306 N. Cayuga-Frontenac, KS 66762
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Les Goins-Box 3837-Shreveport, LA 71103
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James H. Gould-RR#3-Kokomo, IN 46901
Joe Gragg-1002 Hilltop Drive-Palestine, TX 75801
Bill Grant-67 Brattle St.-Worcester, MA 01606
Roger Gravelle-60 Valerie St.-St. Thomas, ON N5R 1A8
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Mark Gregor-54 Hookton Ave.-Uniontown, PA 15401
Bradley Griffin-1533 E. Ivy St.-St. Paul, MN 55106
John Guiney-Morse Road-S. Royalston, MA 01331
Keith Hamer-7, Epping Close-Mackworth Estate-Derby, DE3 4HR, ENGLAND
Arthur Hamlyn-Box 6200-Winnipeg, MB R3C 3A4
Harry Hann-2138 W. Main St.-Millville, NJ 08332
Alvin E. Harvey-12 Hamlet St.-Lawrence, MA 01843
Jack Hathaway-2109 Tamarack Court-Champaign, IL 61820
Jon Hauko-9323 Shore Road-Brooklyn, NY 11209
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Richard Hawkins-1515 Marlowe Ave.-Cincinnati, OH 45224
Harry Hayes-Star Route, Box 226C-Gouldsboro, PA 18424
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Daryl Herzog-21317 Catskill Ave.-Carson, CA 90745
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Scott Levitt-328 Rahway Ave.-S. Plainfield, NJ 07080
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Marshall Lillie-147 S. Main-Bourbonnais, IL 60914
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 Dr. R.B. Ammons-411 Keith Ave.-Missoula, MT 59801
 John Anderson-Box 186-Lowe Farm, MB ROG 1EO
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 Robert Babut-858 The Circle-Lewiston, NY 14092
 Lee Baca-2430 E. Clarendon-Phoenix, AZ 85016
 E.D. Bair-111 W. Chestnut St.-Audubon, NJ 08106
 Robert Baker-Box 337-Humboldt, IA 50548
 Roy Barstow-70 Heritage Circle-Teaticket, MA 02536
 John Basehore-603 Shepherdstown Road-Mechanicsburg, PA 17055
 Dale Basten-618 Sunnycrest-Green Bay, WI 54301
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 Fred W. Born-304 Ivy St.-Bay City, MI 48706
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 Mike Brewer-26630 Mill Road-Frazeysburg, OH 43822
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 Clinton Day-22 Cross St.-Westerly, RI 02891
 W. Bruce Dean-Lake St.-Seekonk, MA 02771
 William Dickerman-YMCA Box 786-Williamsport, PA 17701
 James Dixon-13403 Cambria Farms Road-Phoenix, MD 21131
 Mike Dorner, Jr.-1409 Hymelia Ave.-Metairie, LA 70003
 Bill Draeb-Ellis St., RR2-Kewaunee, WI 54216
 Jeff Driscoll-102 Whiting St.-Plainville, CT 06022
 Leo Duffy-12149 Indiana St., #17-Riverside, CA 92503
 Bill Dulmage-RR3-Colborne, ON KOK 1S0
 John Dyer-Route 1-Jacksboro, TX 76056
 Pat Dyer-5315 Silvertip Drive-San Antonio, TX 78228
 John Ebeling-9209 Vincent Ave. S.-Bloomington, 55431
 William Eckberg-RFD #2-Walnut, IL 61376
 Richard Eddie-152 W. Rose-St. Louis, MO 63119

R.E. Lyons-2864 W. Bay Drive-Largo, FL 33540
Doug Mackey-123 Clark St.-Hillside, NJ 07205
Andrew Mahoney-RR53, Box 400-Terre Haute, IN 47805
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Paul Malone-321 Retford Ave.-Cranford, NJ 07016
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Joseph Markewicz-Box 1503-Hornell Heights, ON POH 1PO
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Patrick Martin-P.O. Box 14192-Portland, OR 97214
Tony Martin-15332 Coyle-Detroit, MI 48227
Dr. Winfield Massie-Box 126-Waverly, VA 23890
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Bill Migley-210 S. Maple St.-Lancaster, OH 43130
Timothy Miller-410 Snyder Hall URH-Champaign, IL 61820
Gil Morgan-10361 Christmas Drive-Huntington Beach, CA 92646
James Moses-2822 Belmont Drive-Ocean Springs, MS 39564
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Don Nelson-P.O. Box 201-Ravenna, OH 44266
Gordon P. Nelson-48 Hardy Ave.-Watertown, MA 02172
Kurt Nelson-127 Elm Ave., 2nd floor-Rockledge, PA 19111
Dean Niemi-308 N. 60th Ave. W.-Duluth, MN 55807
Fred Nordquist-7945 Boxford Road-Clay, NY 13041
Roderick O'Connor-U.S.C.G. Base-Southwest Harbor, ME 04679
Guy Ogden-9810 Florida Blvd.-Baton Rouge, LA 70815
Gary Olson-1195 S. Wilson Drive-Lake Forest, IL 60045
Tim O'Malley-4660 Nix Drive-Pittsburgh, PA 15236
Peter Oprisko-1932 New York Ave.-Whiting, IN 46394
William Palmer-120 Ohio Ave.-Wadsworth, OH 44281
John Parillo-400 S. Market St.-Girard, OH 44420
David Parry-22 Chestnut St.-St. Thomas, ON N5R 2A7
Walter Patton-6252 Drolet-Montreal, PQ H2S 2S7
M. Pawlukiewicz-3007 W. Eastwood Ave.-Chicago, IL 60625
Robert Pegg-RD3, Box 357-Milford, NJ 08848
Joe Perge-546 Oakwood Ave.-Newark, OH 43055
Paul Petosky-Box 140-Munising, MI 49862
John S. Phillips-4459 Downing Court-Pleasanton, CA 94566
Mike Piesko-4744 Springwells Ave.-Detroit, MI 48210
Jim Pizzi-300 Park Ave.-Orcutt, CA 93454
Thomas S. Place-83 St. Louis Ave.-Beaconsfield, PQ H9W 4X9
Lee Prescott-802 E. Crockett-Harlingen, TX 78550
Les Price-115 Parkwood Drive-Wilmington, NC 28401
Theodore Quiroz-3805 N. Harding-Fort Worth, TX 76106
R.W. Randall-1516 34th St. N.W.-Washington, DC 20007
John Ray-1245 East Drive-Zanesville, OH 43701
Mike Reid-109 Arjay Crescent-Willowdale, ON M2L 1C6
Steve Rich-707 Carson Court-Kokomo, IN 46901
R. Rikoski-2124 W. 116th St.-Chicago, IL 60643
Marv Robbins-5627 Ashley Oaks Drive, Apt. 33-Tampa, FL 33617
John Robertson-6065 Gardner Line-Croswell, MI 48422
Mark Robinson-Box 38068-Cincinnati, OH 45238
Terry Robinson-c/- Post Office-Woodend, Victoria, AUSTRALIA 3442
Allen Rockford-505 Seeley Road-Syracuse, NY 13224
David Rogers-Box 74-Buffalo, OK 73834
William Ronecker-6925 Woodrow-St. Louis, MO 63121
Joel Rosenberg-Apt. 909, 40 Godstone Road-Willowdale, ON M2J 3C7
R.L. Rouse-9028 49th Place-College Park, MD 20740
Donald Ruland-4448 68th Place-Kenosha, WI 53140
W.T. Ryan-651 Battery St.-Victoria, BC
Lars Ryden-Majvagen 6-S 17540 Jarfalla, SWEDEN
Roger Sabella-Box 2072-Chicago, IL 60690
Scott Sampson-1024 14th Ave. A-Orion, IL 61273
Michael A. Sapp-6925 Weston Road-Falls Church, VA 22042
Mark Saran-5418 Latona N.E.-Seattle, WA 98105

Carleton Sarver-256 W. 88th St.-New York, NY 10024
Peter Sawatzky-244 Neilsen Ave.-Waterloo, ON N2J 2M3
Cyril Schauer-253 Montgomery-East Dubuque, IL 61025
Michael Scheel-4126 Nobis Drive-Davenport, IA 52802
T.B. Schickling-620 30th St.-Manhattan Beach, CA 90266
Randy Schnepf-23 Modernaire Trailer Court-Lafayette, IN 97905
Todd Schumann-2606 W. 105th St.-Chicago, IL 60655
Eric Schwarz-Sablons 57-CH 2000 Neuchatel, SWITZERLAND
John Seay-1021 Englewood Ave.-Chattanooga, TN 37405
Richard Segalas-Box 26254-San Francisco, CA 94126
Ron Seman-1712 Sheridan Ave.-Whiting, IN 46394
Bob Seybold-Bennett Road, RD2-Dunkirk, NY 14048
James Shepherd-406 Harwood-Joliet, IL 60431
Marvin Shults-RR#1-Toulon, IL 61483
Craig Shura-19 Appelby Drive-St. Catherines, ON L2M 3E5
Ken Simon-528 Pilgrim, Apt. 2-West Palm Beach, FL 33405
Craig Simons-413 Ridelle Ave.-Toronto, ON M6B 1K3
Peter Skinner-24 Elbridge St.-Worcester, MA 01609
Andrew Smith-4309 Hamilton St.-Hyattsville, MD 20781
Dennis P. Smith-50 Manzanita Way-Paradise, CA 95969
Edward Smith, Jr.-119B Winrow, NBU 34D-Fort Huachuca, AZ 85613
Jeff Smith-603 Glendale-Liberty, MO 64068
Joseph Smith, Jr.-196 Ackley Ave.-Johnson City, NY 13790
Lexington Smith-55 East End Ave., Apt. 4G-New York, NY 10028
Winston Smith-4 Rifle Road-Kingston 2, JAMAICA
Jim Sokol-1319 Spruce St.-Reading, PA 19602
Darryl Sopata-23701 Panama-Warren, MI 48091
Steve Sprachman-3939 Eve Drive-Seaford, NY 11783
Richard Steinberger-47 Causeway St.-Hudson, MA 01749
Don Storms-3475 Spring Valley Blvd.-College Park, GA 30349
Eric Strahan-Route 1-Poplarville, MS 39470
Ralph Strobel-2510 E. McGalliard Road-Muncie, IN 47303
R.W. Strong-3398 Mark Ave.-Windsor, ON N9E 2X1
James Sullivan-1212 Violeta Drive-Alhambra, CA 91801
Karl Swartz-633 S. Hough-Barrington, IL 60010
Michael Sweeney-4 Prescott Ave.-Dix Hills, NY 11746
Verrell Tallet-2501 College St.-Plainview, TX 79072
Peter V. Taylor-KFOG-900 North Point-San Francisco, CA 94109
Michael Telles-352 "A" Avenue-Coronado, CA 92118
Martin Theil-12 Princeton Drive E.-Holiday, FL 33589
James Thomas-Box 454-Tipton, MO 65081
William Thompson-1907 Seneca St.-Buffalo, NY 14210
Richard Tidberg-Box 119A, Rt. 2-Winnebago, IL 61088
Paul Traska-64 Weaver Ave.-Buffalo, NY 14206
Roy Tucker-14109 Whiterock Ave.-La Mirada, CA 90638
Don Voegele-45 Alisal Road-Santa Barbara, CA 93103
Larry Vogt-7724 Harwood Place-Springfield, VA 22152
Lee Vulgamott-Box 177-Williams, IA 50271
Tony Ward-RR4-Guelph, ON N1H 6J1
Paul Wardell-2104 S.E. 28th Place-Portland, OR 97214
Larry Weil-14 Thixton Ave.-East Rockaway, NY 11518
Mal Wessot-Chatham Antenna Services-51 Austerlitz St.-Chatham, NY 12037
Steven West-432 Kenmore Road-Havertown, PA 19083
Frank Wheeler-6589 Wattsburg Road-Erie, PA 16509
Jim White-1000 S. Grand Ave.-Waukesha, WI 53186
John Wierhasz-106 Genevieve St.-Mauston, WI 53948
Morgan Williams-3798 Sunset Blvd.-West Columbia, SC 29169
Robert J. Williams-251 6th Ave. E.-Twin Falls, ID 83301
Mel Wilson-17 Van Cortland Drive-Pittsford, NY 14534
Michael Wimer-1939 Morris St.-New Castle, PA 16101
Ron Wing-705 N. Emporia, Apt. 2-Wichita, KS 67214
Bruce Winkelman-3324 Kettering Place-Greensboro, NC 27410
John Winslow-1106 Shasta Drive-Madison, WI 53704
Roger Winsor-P.O. Box 463-Hobart, IN 46342
Steven Wiseblood-707 Loma Way-Santa Maria, CA 93454
Dr. Richard E. Wood-15 Garden Circle-Syosset, NY 11791
Harvey Woodworth, Jr.-142 Otsego Ave.-San Francisco, CA 94112
Mike Worst-P.O. Box 21462-Seattle, WA 98111
David M. Wurl-Box 426-Wisconsin Dells, WI 53965
Thomas Yeazell-930 Seibel Lane-Cincinnati, OH 45238
Thomas Yingling-221 Pinewood Road-Dundalk, MD 21222
Bob Young-1502 W. Broadway-Enid, OK 73701
Jim Young-Box 576-Wrightwood, CA 92397
Robert Zent-1835 Fruit St.-Huntington, IN 46750
John Zondlo-6617 Maryland-Hammond, IN 46323

WTFDA: 304 members

STATISTICS

Glenn Hauser, editor
 NEW EDITOR: Andy Bolin
 709 Lincoln Ave
 Charleston IL 61920

106 & 107 MHz FM DX RECORDS

MHz	Prop	Call	Location	Miles	Dyer Location
106.1	Es	CJOY	ON Guelph	1415	Glenn Hauser, Von Ormy TX
	Tr	KDNT	TX Denton	935	Mike Dalton, Clearwater FL
	MS				
	Au	KDNT	TX Denton	655	Andy Bolin Charleston IL
106.3	Es	WVIP	NY Mount Kisco	1335	Glenn Hauser, Enid OK
	Tr	KPAN	TX Hereford	1250	Mike Dalton, Clearwater FL
	MS				
	Au	KVWO	WY Cheyenne	940	Russ Brown, Saint Joseph MI
106.5	Es	WADV	NY Buffalo	1440	Glenn Hauser Von Ormy TX
	Tr	WFML	IN Washington	975	Fred McGormack, Des Lacs ND
	MS	WSTP	NC Salisbury	965	Glenn Hauser, Enid OK
	Au	WKBV	IN Richmond	545	John Ebeling, Bloomington MN
106.7	Es	WPDC	PA Elizabethtown	1350	Fred McGormack, Des Lacs ND
	Tr	WYEN	IL Des Plaines	790	Fred McGormack, Des Lacs ND
	MS	WWW	MI Detroit	885	Glenn Hauser, Enid OK
	Au	WDTM	MI Detroit	535	John Ebeling, Bloomington MN
106.9	Es	KMPX	CA San Francisco	1340	Glenn Hauser, Enid OK
	Tr	KNRO	TX Conroe	1070	Carlton Howington, Uniontown OH
	MS				
	Au	KROC	MN Rochester	525	Fred McGormack, Des Lacs ND
107.1	Es	WGRP	PA Greenville	1320	Glenn Hauser, Von Ormy TX
	Tr	KASI	IA Ames	630	Carlton Howington, Uniontown OH
	MS	KDUZ	MN Hutchinson	620	Glenn Hauser, Stillwater OK
	Au				
107.3	Es	WHYD	GA Columbus	1395	Fred McGormack, Des Lacs ND
	Tr	WANS	SC Anderson	1000	Glenn Hauser, Von Ormy TX
	MS	WWBA	FL Saint Petersburg	1085	Peter Sawatzky, Waterloo ON
	Au	WEOL	OH Elyria	610	John Ebeling, Bloomington MN
107.5	Es	WBYO	PA Boyertown	1500	Glenn Hauser, Von Ormy TX
	Tr	WBOW	IN Terre Haute	660	Richard Wood, Baton Rouge LA
	MS	WTRF	WV Wheeling	915	Glenn Hauser, Stillwater OK
	Au	WCGN	WI Neillsville	580	Fred McGormack, Des Lacs ND
107.7	Es	WBIV	NY Wethersfield	1450	Pat Dyer, San Antonio TX
	Tr	WNCT	NC Greenville	835	Ron LeBlanc, Marrero LA
	MS	KWIC	TX Beaumont	1185	Peter Sawatzky, Waterloo ON
	Au	KIGD	LA Spencer	470	Fred McGormack, Des Lacs ND
107.9	Es	"CBJE"	PQ Chicoutimi	1415	Fred McGormack, Des Lacs ND
	Tr	WIRK	FL West Palm Beach	1150	Glenn Hauser, Von Ormy TX
	MS	WBT	NC Charlotte	950	Glenn Hauser, Enid OK
	Au	WOBT	WI Rhinelander	600	Fred McGormack, Des Lacs ND

And so concludes my WTFDA editorship, which began shortly after the club was born. I've enjoyed keeping track of this data, and have done my best to be fair when there were conflicting claims or unconvincing records. All the best to all who have contributed to these columns over the years! Reports containing still unpublished data have been forwarded to Andy Bolin, whom I hope you will give your full support. Until the next, 73.

WESTERN TV DX (continued from page 15)

January 1977

To update past Es charts: add one reporter on July 31; August 01,02,03,04,05,15; September 02,17. July 31 includes possible ch.7 MUF.
 For aurora: September 02, thru ch.4.

Date	Oct	20	21	22	23	26	31(AE?)	Nov	01	08	14	17	19	22	23	24	25	27
# reporters	1	2	1	1	1	1	1		2	1	1	2	1	1	3	2	2	1
MUF at least	4	5	3	2	2	3	3		4	2	4	98.5	2	2	4	4	6	3

Reminders: Before mailing your report, clear it of all spurious unIDs; the tentatives are okay. Mail all reports to the new address; 1710 W Maine, Enid OK 73701. If you're a new member, or an old but quiet one, don't hesitate to report your DX, no matter how meager; we'll be glad to hear from you!

Hope everybody enjoyed the holidays, and DX is looking up at your QTH...

Doug

QSL CORNER

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

- Canada Ontario CJRT 90.1 Toronto, 279 Victoria St. Toronto, ONT M5B 1W1, Form letter with typed added note: you are the most southern listener. Wayne Jolly, Station Eng. reply in 1 week. (KRS)
- IN WBCL 90.3 Fort Wayne, 1025 W. Rudisill Blvd, 46807, letter from Mike Heuberger, station manager, reply in 1 week. (KRS)
- MI WNMU 90.1 Marquette, Michigan Northern University, 49855, letter, bumperstickers, and most distant report so far, reply from James Steffey, CE (KRS)
- WKJF 92.9 Cadillac, Box 627, 49601, letter from Lowell Shore, CE, with mention of other reception report from Dalton Boys (Clearwater, FL) WTFDA member, reply in 10 days. (KRS)
- MO KRXL 94.5 Kirksville, KIRX Bldg., 63501, letter & map from Bill Collins, CE (RTE)
- KWMU 90.7 St. Louis, 8001 Natural Bridge Rd., 63121, letter from Cecil Jackson, CE
- KLPW 101.7 Union, Box 549, 63084, letter from CE, no signer. (RTE)
- KTTS 94.7 Springfield, P.O.Box 1806, 65805, letter, map, & decals from Gene Pitts CE in 20 days. (RTE)
- NE KGOR 99.9 Omaha, 5010 Underwood Ave., 68132, letter from John A. Bruna, CE (RTE)
- OH WEEC 100.7 Springfield, 2348 Troy Rd, 45504, letter & map per follow-up report from David S. Bastress, CE (RTE)
- OK KMOD 97.5 Tulsa, 2805 E. Skelly Dr, 74105, letter per follow-up report from Robert E. Cauthon, CE. (RTE)
- PA KDKA 92.9 Pittsburgh, 1 Gateway Center, 15222, unsigned fill-in am/fm card no notation as to which. Reply in 15 days. (KRS)
- TN WQUD 104.5 Memphis, Box 12045, 39112, letter signed by CE & PD. (RTE)
- WKIR 104.1 Jackson, % Radio WTJS, Box 1119, 38301, letter from Mark A. Ward, PD. (RTE)
- WHIN 104.5 Gallatin, Hwy 109 North, 37066, letter from Jack Williams, CE (RTE)
- WTPR 105.5 Paris, P.O.Box 700, 38242, letter & map from CE, no signer. (RTE)
- TX KRLY 93.7 Houston, 3935 Westheimer, suite 94, 77027, letter & 4 KRLY bumperstickers with logo KRLY FM 94, reply in 15 days from Bill Cornell, CE (SS)
- VA WGN 97.3 Newport News, Box 98, 23607, letter & map from Joseph W. Looper. (RTE)
- WV WKWK 97.3 Wheeling, 1201 Main St., 26003, letter from Jack Rees, CE. (RTE)
- WI WIFC 95.5 Wassau, 1114 Grant Ave., 55401, reply with WIFC/WSAU/WSAU-TV card with FM marked. Signed by Don Cordart (?) CE. Reply in 1 week. (KRS)
- WBKV 92.5 West Bend, Very friendly letter "Yours is a record for out station we have never heard from so far before" also thanked me for info on club WTFDA, Signed Paul E. Krejci, CE. Reply in 3 weeks. (KRS)

Reporters are Richard T. Eddie of St. Louis, MO, Kenneth R. Simon of West Palm Beach, FL & Scott Sampson of Orion, IL. I hope everybody read last month issue of the news of a new QSL Corner. From now on there is one column for all QSL's, and this is it. Please send all qsl news to the above address. Now that there is only one column, I will need all the support I can get so I can type up every month a full page of qsl items. Right now my electric typewriter is broken, and I have to bang-a-way on this manual in the mean while. I did get my Channel Master Probe-9 fm yagi up over the Thanksgiving weekend with a CDE rotor AR-33, which works just great on my Pioneer TX-9100 at 50 feet. 73's for now, *Tom*

CANADIAN CONFUSION...



No, that photo to left isn't a shot of WTEN-10 in Albany, though their logo and call letters are shown to right. Neither is it a picture of WCDC-19, Adams, Mass., which is licensed to repeat WTEN. Rather, it is a photo of the Canadian TV Ontario network repeating WCDC-19 as photoed by Paul Gaines on the evening of August 22. It's just another in a series of idiocies encountered by TVO due to their off-air receiving system. With TVO stations on channels 18, 19, 24, 28, 32, and 59 (all using CICO call letters), we can only warn DXers of the confusion! -CW INGRAM

BUILT-IN TV-DX RECORDS

Compiled by John F. Combs

Response to my article in the October 1976 VUD (p. 47) wasn't exactly what one would term "overwhelming". Besides myself, I received reports from Harry J. Hayes, Scott Levitt, Pete Sawatzky, and new member Bob Young (forwarded by Doug Everitt). Below are listed the "all-time" built-in TV-DX catches, as well as the best catch on each channel.

Ch.	Calls	Location	Miles	DXer	Location
		LO-BAND VHF RECORD: WWAY-3	425 mi.	John F. Combs,	Orlando FL
		HI-BAND VHF RECORD: WBTW-13	410 mi.	John F. Combs,	Orlando FL
		UHF RECORD: WAAY-31	525 mi.	John F. Combs,	Orlando FL
		UHF XLTR RECORD: W46AB	165 mi.	John F. Combs,	Oberlin OH
Ch.	Calls	Location	Miles	DXer	Location
2	KDKA	Pittsburgh PA	230	Harry J. Hayes,	Gouldsboro PA
3	WWAY	Wilmington NC	425	John F. Combs,	Orlando FL
4	WTMJ	Milwaukee WI	365	Peter Sawatzky,	Waterloo ONT
5	WPTZ	Plattsburgh NY	355	Peter Sawatzky,	Waterloo ONT
6	WRTV	Indianapolis IN	380	Peter Sawatzky,	Waterloo ONT
7	WITN	Washington NC	380	Scott Levitt,	S. Plainfield NJ
8	WXEX	Richmond VA	260	Scott Levitt,	S. Plainfield NJ
9	WSTV	Steubenville OH	255	Harry J. Hayes,	Gouldsboro PA
10	WAVY	Portsmouth VA	280	Scott Levitt,	S. Plainfield NJ
11	WBKB	Alpena MI	255	John F. Combs,	Oberlin OH
12	WWBT	Richmond VA	260	Scott Levitt,	S. Plainfield NJ
13	WBTW	Florence SC	410	John F. Combs,	Orlando FL
14	WEBA	Allandale SC	320	John F. Combs,	Orlando FL
15	WTAP	Parkersburg WV	295	Peter Sawatzky,	Waterloo ONT
16	WNEP	Scranton PA	340	John F. Combs,	Oberlin OH
17	WNED	Buffalo NY	290	John F. Combs,	Oberlin OH
18	WLEX	Lexington KY	430	Peter Sawatzky,	Waterloo ONT
19	WNOK	Columbia SC	390	John F. Combs,	Orlando FL
20	WUTR	Utica NY	260	Peter Sawatzky,	Waterloo ONT
22	WDAU	Scranton PA	340	John F. Combs,	Oberlin OH
23	WKAR	E. Lansing MI	205	Peter Sawatzky,	Waterloo ONT
24	WCNY	Syracuse NY	215	Peter Sawatzky,	Waterloo ONT
25	WOLO	Columbia SC	380	John F. Combs,	Orlando FL
27	WKYT	Lexington KY	430	Peter Sawatzky,	Waterloo ONT
28	KMCC	Lubbock TX	280	Bob Young,	Enid OK
29	WNTV	Greenville SC	450	John F. Combs,	Orlando FL
31	WAAY	Huntsville AL	525	John F. Combs,	Orlando FL
33	WJPM	Florence SC	410	John F. Combs,	Orlando FL
34	WOSU	Columbus OH	275	Peter Sawatzky,	Waterloo ONT
35	WRLK	Columbia SC	385	John F. Combs,	Orlando FL
36	WENY	Elmira NY	210	Peter Sawatzky,	Waterloo ONT
38	WYEA	Columbus GA	340	John F. Combs,	Orlando FL
40	WICZ	Binghamton NY	245	Peter Sawatzky,	Waterloo ONT
41	WCWB	Macon GA	320	John F. Combs,	Orlando FL
44	WSNS	Chicago IL	245	John F. Combs,	Monroe OH
46	WSKG	Binghamton NY	245	Peter Sawatzky,	Waterloo ONT
50	WKBD	Detroit MI	220	John F. Combs,	Monroe OH
53	WPGH	Pittsburgh PA	215	Peter Sawatzky,	Waterloo ONT

Pete and I seem to have dominated the list; rest assured, it wasn't intentional!! I believe the five DXers in the above list have simply done a lot more DXing on built-in antennas than others; hence the paucity of reports. Note that we still need records on Chs. 21,26,30,32,39,42,43,45,46,47,48,49, 51,52,and 54-83. Any catch over 200 miles is eligible. Also, if you have any catches that exceed the distance in one of the records above, please send it in. If interest warrants it, I hope to run an updater in several months.

Harry Hayes mentioned the possibility of doing something similar for built-in MS and Au. I know it's possible, and happens now and again. If anyone is interested in doing this, or in listing FM records, by all means, do so. I can't, for with the Southern TV-DX column, school, etc., my time is kind of limited. At any rate, send in those catches if you have them!! 73, John.

Feedback

Our readers write



WINEGARD'S
AC-4990,
CONTINUED

Continuing our discussion of the Winegard AC-4990/Blonder-Tongue CMA-Ub UHF preamp controversy from last month (page 4, December VUD), we have these comments from Richard A. Rikoski, Ph.D, E.E., of the Illinois Institute of Technology:

I enjoyed reading R.B. Cooper's October 1976 TEK-NOTES on the Winegard UHF preamplifier and would like to expand upon some of the points made by Mr. Cooper in his fine article.

The central question one must consider before making an RF amplifier investment is simple: will adding a booster at the antenna improve reception? More properly: will the amplifier selected improve picture quality from TASO "passable" (signal/noise ratio for the system of 28 dB) upwards toward TASO "excellent" (S/N ratio of 44 dB)? (TASO is the Television Allocations Study Organization, which has established standards of picture quality for television -CWI)

It can be shown that, at UHF, adding a mast-mounted preamplifier with 3 dB noise figure and 15 dB gain to a system with 5 dB transmission line loss and UHF tuner noise figure of 14 dB will result in an overall S/N improvement of 15 dB. This should reduce snow considerably.

While it is true that the gain and noise figures of subsequent stages do affect system S/N ratio slightly, their overall effect on picture snow is usually negligible compared to the noise figure of the first electronic stage. Moreover, modern television receivers of good manufacture are designed to have abundant gain in the IF amplifier to bring picture contrast up to any desired level.

Incidentally, noise received at the antenna (cosmic noise) is so low at UHF that any improvement in first-stage noise figure will result in an improvement in system S/N level. Unfortunately, this does not hold for the VHF bands, where cosmic noise level is high enough to mask any improvement in receiver electronics noise figure. Thus, the only reasons one would add a broadband VHF mast-mounted amplifier would be to compensate for very long and lossy transmission lines; for losses due to an extensive passive distribution system; or to compensate for low-gain circuitry found in a poorly-designed or malfunctioning television receiver.

Finally, it should be made clear that the term dBmV must be used with care, as it is defined only for signal level comparisons at 75 ohms, and should not be used for 300-ohm systems or for mixed 300-ohm/75-ohm installations.

Thank you, Dr. Rikoski, for your comments on this issue. Of course, DXers' primary interest is not specifically in picture quality (except perhaps on those 1000-mile UHF tropo ducting catches!), the subject of dB (discussed in last month's TEK-NOTES) applies and is equally important to both. Again, thanks for your observations, and comments from other WTFDA members on this matter or any other subject pertinent to the hobby are welcomed. Send them to your editor at 5201 Colewood Drive, Pittsburgh PA 15236, before the 20th of each month. Names will be withheld if so requested, but no anonymous letters will be published.

Another way to express your opinions to WTFDA staff members is by completing and returning your still-dormant Member Survey card (mailed with the July '76 VUD). Results will not be compiled until a majority (roughly 140) of cards are returned, so here's one chance to make your voice heard! At this writing, 27 more questionnaires are still needed. Will yours be one of them?

Clarke W. Ingram, Editor-In-Chief, VHF-UHF DIGEST

VHF UTILITY DX

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

JANUARY 1977

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

<u>1-20:</u>	2124, N77CS	119.7	vic Bal. (Beckett Aviation Corp.; BAC 1-11, 2-engine jet, 23-seat; 30 watts)
<u>23:</u>	2003, N1954T	119.7	35 mi se Bal. (Supreme Petroleum; Piper Cherokee 180, 1-engine, 4-seat)
<u>8-7:</u>	0231, "PPM"	108.4	Aberdeen, MD (Phillips AAF VOR; cw ID's; 45w)
<u>12:</u>	1712, N472SP	128.7	vic NYC (Scott Paper Co.; Lockheed Jet Star, 4-engine, 12-seat)
<u>13:</u>	0154, KTA 453	162.0	Washington, DC (Marine Operator; 50 watts)
<u>14:</u>	1920, N9475S	127.2	vic DC (Robert J. Taylor; Beech 35, 1-e, 4-s)
<u>19:</u>	1659, N5354Q	124.0	nr Upper Marlboro, MD (Andrews Bolling Aero Club)
<u>22:</u>	1635, N49DE	128.6	5 mi ne Westminster, MD (Lake Aircraft, Inc; 25w)
<u>23:</u>	1330, N59032	128.3	40 mi e Bal. (Charles A. DeLone, M.D.) & 119.7
<u>29:</u>	1504, N1615W	134.5	12 mi ne Easton, MD (EDO-AIRE Corp.; Beech Baron E-55; 2-engine, 2-seat; 6 watts)
<u>2-4:</u>	2116, N7925Y	119.7	Ches. Bay Br (S. Hardlo Cohen; Piper Twin Comanche)
<u>5:</u>	0106, N4476P	119.7	w of " (Cape Aircraft, Inc.; 50 watts)
<u>25:</u>	2051, N7183V	127.2	ov Easton, MD (Thomas C. Lindsay; Mooney M20F Executive; 1-engine, 4-seat)

Now, my loggings. Hammarlund SP-600-JX-10, Hallicrafters SX-62; Allied A-2586; two 30' long wires at 12' (ne-sw, nw-se runs); daily peak F2 MUF noted; * Es, bs-backscatter; GMT used

<u>11-11:</u>	1614, KQC 877 *	<u>19:</u>	1515, 30.30	<u>25:</u>	1524, KQC 877 *
	1920, 35.94	<u>20:</u>	1920, 32.96	<u>29:</u>	2020, 30.30
<u>12:</u>	1520, 30.30	<u>21:</u>	1615, 30.30	<u>12-8:</u>	1550, 30.30
<u>13:</u>	1705, 30.30	<u>22:</u>	1855, 32.96	<u>9:</u>	1920, 31.92 US
<u>14:</u>	1958, KDN 407 *	<u>24:</u>	2103, KOE 257 *		1925, 35.62 bs
<u>16:</u>	1835, 30.30		2139, KFL 943 *		1940, 32.96
<u>17:</u>	1835, 30.30		2140, OK City *		

KDN 407	35.22	Col Spgs, CO	KQC 887	35.58	Cincinnati, OH
KFL 943	35.58	Las Vegas, NV	OK City	35.58	OK City, OK
KOE 257	35.22	Phoenix, AZ			

KFL 943 is tone message-voice ID; OK City is voice message and ID the rest are tone message and ID

For a change, no earth-shaking news from WWV this time

Preliminary information from Boulder indicates that Cycle 20 may have finally hit its minimum in July 1976. However, the Swiss predicted numbers show no sign of an upswing thru early 1977.

With these low solar levels, about the only way the F2 MUF ventures far into the 30-50 MHz region is with the assistance of a magnetic storm. Such was the case on Dec 9 when the highest US MUF's since Oct 12-13 were noted. The transcontinental MUF might have come close to the 35-MHz pager pile. So, again, we ask that those members on either coast report any loggings of the other coast via F2 on VHF. Even tentative ID's are very useful these days of scarcity.

73, Pat

WA5IYX

1977 WTFDA CONVENTION BIDS STILL OPEN

If you're interested in hosting our club's annual gathering this year, and haven't yet submitted a formal bid to your editor (address on back cover), now is your last chance before bidding for the convention site closes on January 20th! Accepted bids will be published in the February VUD, with confirmed site to be announced in the March issue. Hurry!



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

**TOUGH
TO BEAT!**

Established 1967

SERVING THE
VHF-UHF DX
ENTHUSIAST



DUES: USA and Canada, \$11 (via first class); overseas, \$18 (via air mail).

The VHF-UHF DIGEST is the official publication of the Worldwide TV-FM DX Association. WTFDA is a non-profit organization and a member club in the Association of North American Radio Clubs (ANARC).

Persons contributing their efforts for the Worldwide TV-FM DX Association do so without any monetary compensation. Dues and all other revenue cover printing, postage, and other expenses.

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

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S U P P L I E S and D X L I T E R A T U R E WTFDA member rates only.

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All columns and feature articles to be printed in any VUD issue should be sent to editor Clarke W. Ingram, 5201 Colewood Drive, Pittsburgh PA 15236. All information for VUD columns should be sent to the appropriate editors; all club business (supply orders, etc.) should be sent to HQ in Deerfield. SUPPORT WTFDA BY PARTICIPATING---REPORT TO COLUMNS AND PURCHASE SUPPLIES.

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