

VHF-UHF DIGEST

Annual
November
Issue!

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WJVM-FM

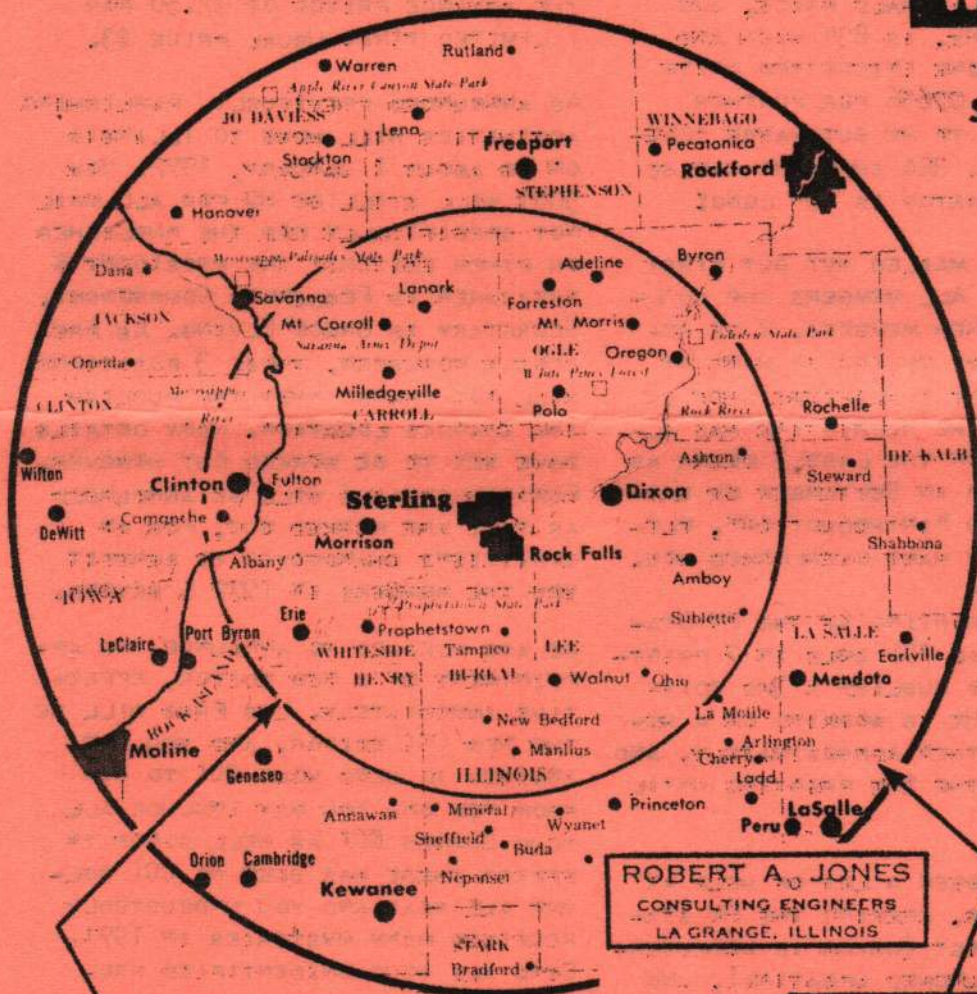
Stereo in...
Sterling, Illinois

WJVM-FM

Stereo in...
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WJVM-FM serves a rich income area, strong in both farming and industrial economies with 3000 watts at 94.3 MC!

WJVM-FM has highly-efficient vertical and horizontal antenna which broadcasts a strong signal 50 miles radius from its center which includes cities of Sterling, Rock Falls and Dixon.

APOLOGIES TO ALL FOR THE DELAY IN MAILING THE OCTOBER VUD. IT WAS THE BIGGEST EVER PUBLISHED BY WTFDA, WE HAD "INTRODUCTIONS TO DXING" AND THE TV STATION LIST UNFINISHED ALSO TO WORK ON, CHIEF PUBLISHER WORKS NIGHTS NOW AND ASSISTANT PUBLISHERS DO NOT.

A LETTER HAS BEEN RECEIVED FROM ROGER BUNNEY NOTING THAT HIS DOOKLET FOR BEGINNING DXERS HAS SOLD OUT TWO PRINTINGS AND A THIRD WON'T BE AVAILABLE UNTIL JANUARY. NEW PRICE UNANNOUNCED AS YET. ROG WILL ALSO BE MOVING IN NOVEMBER TO SOUTHAMPTON CITY.

RECENT PLUGS IN POPULAR ELECTRONICS AND POPULAR SCIENCE HAVE BROUGHT AN AVALANCHE OF MAIL REQUESTING THE "NEW MEMBER PACKAGE" ALIAS "INTRODUCTION TO DXING ABOVE 30 MHZ," AND FORCED THE PACKAGE INTO A SECOND PRINTING ALREADY.

PERRY FERRELL OF GILFER ASSOCIATES IS BREAKING UP SOME OF HIS PERSONAL DX GEAR AND HAS A HY-GAIN DS-1A DISCONE ANTENNA FOR SALE AT HALF PRICE, \$20 PLUS SHIPPING. COVERS 50-500 MHZ, IS 83" HIGH AND HAS SKIRT OF 60" DIAMETER. ANYONE INTERESTED WRITE HIM AT BOX 239, PARK RIDGE, NJ 07656 FOR FURTHER INFO. DESCRIPTION SOUNDS GREEK TO ME BUT MAYBE SOMEONE OUT THERE KNOWS WHAT IT IS. REA SHIPMENT CAN BE ARRANGED TO SOME LOCALITIES; CARTON IS 96" LONG!

TV STATION LISTS HAVE NOT BEEN MAILED YET BUT FIRST MAILINGS WILL OCCUR THIS WEEK. ALL MEMBERS WHO QUALIFIED FOR THE "INTRODUCTION" (NEW MEMBERS, 2 YR RENEWALS, OR 25¢ PAID) SHOULD HAVE THEIRS IN HAND BY NOW, EXCEPT POSSIBLY SOME RECENT QUALIFIERS WHOM WE HAVE NOT YET PROCESSED FULLY. THE REPRINTING HAS ALSO CAUSED SOME DELAY BUT ONLY IN THE LAST 2 WEEKS AS OF 24 OCTOBER. IF YOU QUALIFIED IN SEPTEMBER OR EARLIER AND HAVE NOT RECEIVED YOUR "INTRODUCTION", PLEASE WRITE HQ ABOUT IT AS WE MAY HAVE OVERLOOKED YOU.

BRUCE ELVING REPORTS HIS 2ND PRINTING OF THE FM STATION ATLAS IS ALMOST GONE (TOTAL 700 SOLD IN 2 PRINTINGS) AND HE MAY NOT BE ABLE TO PUBLISH A 3RD EDITION UNTIL THE 1ST OF JANUARY. HE IS WORKING ON A REVISED EDITION TO BE PUBLISHED THEN APPROXIMATELY, AND DIDN'T ANTICIPATE SELLING OUT THE 2ND PRINTING UNTIL THAT TIME.

BRUCE AND HIS WIFE CAROL HAVE BEEN A LOT OF HELP AT HQ WITH REGULAR CLUB ACTIVITIES, KEEPING THE FM STATIONS UPDATED FOR THE STATION LIST (WHICH IS COMPUTERIZED BUT REQUIRES REGULAR KEYPUNCHED UPDATING), AND OFTEN COME OVER AT A MOMENT'S NOTICE TO HELP OUT. A COUPLE WEEKS AGO THEY BECAME PARENTS FOR THE FIRST TIME, AND LITTLE KRISTINE WILL SHORTLY BE JOINING THE HQ STAFF IF SHE CAN GET THE KNACK OF COLLATING DOWN PAT. BRUCE HAS EVEN TAKEN TIME OFF FROM WORK TO HELP ME OUT WHEN I'VE BEEN IN A BIND AT HQ SO I'M VERY GLAD TO HAVE SOMEONE TO RELY ON IN A MOMENT OF NEED. THANKS A LOT TO THE ELVINGS FROM FSD.

WTFDA'S HQ STAFF CONSISTS OF MEMBERS WHO HAVE CONTRIBUTED TIME AND EFFORT TO PUBLISHING AND OTHER ACTIVITIES IN PERSON AT HQ. ALL DECISIONS GOVERNING THE CLUB ARE MADE BY A JOINT COUNCIL OF THESE DXERS PERSONALLY ACTIVE AT HQ, REGULARLY OR PERIODICALLY.

COLUMNS NOT APPEARING THIS MONTH: MAILBOX AND EASTERN TV, DUE TO INSUFFICIENT MATERIAL TO FILL EVEN ONE PAGE EACH. THEY'LL RETURN NEXT MONTH AS USUAL. BOB'S TECH-NOTES RECEIVED AFTER THE DEADLINE (20TH).

WE'D HOPED TO PUBLISH THE FM STATION LIST IN OCTOBER AND HAD ADVERTISED IT IN THE OCTOBER ISSUE OF THE VUD. HOWEVER, DELAYS HAVE POSTPONED IT TIL LATE NOVEMBER AS THINGS LOOK NOW. ORDERS WILL BE ACCEPTED IMMEDIATELY HOWEVER AT THE ADVANCE PRICE OF \$2.50 FOR A LIMITED TIME. USUAL PRICE \$3.

AS ANNOUNCED PREVIOUSLY, PUBLISHING ACTIVITIES WILL MOVE TO ILLINOIS ON OR ABOUT 1 JANUARY, 1972. BOX 5001 WILL STILL BE HQ FOR ALL MAIL NOT SPECIFICALLY FOR THE PUBLISHER OR OTHER EDITORS; THE PRESIDENT & TREASURER IS FERDINAND DOMBROWSKI, SECRETARY IS BRUCE ELVING. AS PRESENTLY FORESEEN, THESE 3 POSITIONS WILL NOT CHANGE WHEN THE PUBLISHING CHANGES LOCATION. MANY DETAILS HAVE YET TO BE WORKED OUT HOWEVER. FURTHER DETAILS WILL BE ANNOUNCED AS THEY ARE WORKED OUT, FOR AN EFFICIENT CHANGEOVER TO BENEFIT YOU THE MEMBERS IN 1972 & BEYOND.

WE ARE PLEASED TO ANNOUNCE THE APPOINTMENT OF A NEW EDITOR, EFFECTIVE IMMEDIATELY. LES PRUS WILL BE THE NEW CCI EDITOR, AND YOU ARE INVITED TO SEND YOUR CCI TO HIM FROM NOW ON. YOU MAY INCLUDE ALL YOUR SUMMER CCI AS WELL SINCE IN EFFECT THERE HAS BEEN NO CCI COLUMN ALL YEAR AND YOU UNDOUBTEDLY RECEIVED MANY MYSTERIES IN 1971. SEND ALL YOUR UNIDENTIFIED PROGRAMS, COMMERCIALS, ETC TO LES AT 1615 PIERRE ST., MANHATTAN, KS, ZIP 66502. YOU SHOULD ENDEAVOR TO OBTAIN AS MUCH INFORMATION AS POSSIBLE ABOUT YOUR CCI TO AID OTHER MEMBERS IN IDENTIFYING IT FOR YOU. NOTE DIRECTION, PROPAGATION, CHANNEL, WHAT OTHER STATIONS WERE SEEN AT THE TIME, LOCAL COMMERCIALS OR PEOPLE'S NAMES, NON-NETWORK PROGRAMS OBSERVED (OR NETWORK PROGRAMS SEEN AT AN UNUSUAL TIME). ALSO IF YOU HAVE AN IDEA WHAT STATION YOU RECEIVED, THIS MAY HELP AS WELL.

QSL CORNER

Editor: Bill Matthews
P.O. Box 15306
Columbus, Ohio 43215

Phone: 614-236-0026

A splendid turnout this time, so without anything further, let's begin...

ARKANSAS: KFSA, Fort Smith, channel 5, sent a letter of verification in 1½ months signed by James R. Anhalt, Chief Engineer. (David Egan)

ARKANSAS: KARK, Little Rock, channel 4, sent a card with no specific information - does verify however. (J. J. Rosenberg)

DISTRICT OF COLUMBIA: WTOP, Washington D. C., channel 9, sent a card in one month. Verification signer was Ralph L. Mlaska, Chief Engineer. (Egan) Dave, please note the corrected last name.

ILLINOIS: KS2XBR, Chicago, channel 38, replied in 12 days with a letter stating the antenna height and power of this experimental station. (Hein) Very nice! Station is operated by the Zenith Radio Corporation with 1 Kilowatt

ILLINOIS: WHBF, Rock Island, channel 4, sent a QSL card in 7 days. Card states antenna height and type, make of the transmitter, and location. (Hein)

ILLINOIS: WICS, Springfield, channel 20, sent a letter in 13 days with no extra information. (Hein)

INDIANA: WTTV, Indianapolis, channel 4, sent a QSL card with information on the reverse. Ruth Hunter signed the card and sent it in 13 days. (Egan) Same (Matthews) Let me add that Ms. Hunter seems quite friendly to DXers - we should appreciate her services!

INDIANA: WFBM, Indianapolis, channel 6, sent a card in 8 days. The card is also designed for use by the AM & FM stations. Verie signer is Robert W. Flanders. (Pat Dyer)

INDIANA: WSJV, South Bend, channel 28, replues by QSL card in 31 says. Also, sent signal contour map as well as information about antenna height and power. (Hein)

IOWA: KIIN, Iowa City, channel 12, responded with a letter in 10 days and supplied information about the transmitter type and power, location, antenna height and type. (Hein)

MARYLAND: WBAL, Baltimore, channel 11, sent an attractive black and white card in 8 days. Extra information included the studio location, antenna height and equipment, frequency, power, and a picture of the building. Verie signer was Otto R. Claus, Chief Engineer (Paul Luchter)

MICHIGAN: WJBK, Detroit, channel 2, sent a letter signed by Rod Luoma, Chief Engineer and WTFDA member, coverage map, and verification card. (Rosenberg) Joel, I thought Marlon Stoner was still Chief Engineer.

MICHIGAN: WOOD, Grand Rapids, sent a very large card in 8 days with information about their TV-AM-FM outlets. Verification signer was B. Robison. (Egan) Sorry, station operates on channel 8

MICHIGAN: WKZO, Kalamazoo, channel 3, sent a postcard with information about their building. Signer was Dyan Guthrie. (Rosenberg)

MICHIGAN: WWUP, Sault Ste. Marie, channel 10, verified with a personal letter signed by Murray Tucker, Chief Engineer, in 10 days. They welcome distant reports. Business offices are Box 627, Cadillac, Michigan 49601 (Frank Wheeler)

MISSISSIPPI: WLBT, Jackson, channel 3, sent a nice letter and a page from the TV Factbook with all the information desired. Verie signer was Floyd Kinard, Chief Engineer. Total time...4 months after the second follow up (Egan) Worth waiting for, Dave!

MISSOURI: KFVS, Cape Girardeau, channel 12, verified in 11 days with a letter of verification. (Hein)

MISSOURI: KCSD, Kansas City, channel 19, verified in 7 days with a letter signed by Dave Pomeroy, Program Director. (Les Prus)

MISSOURI: KQTV, St. Joseph, channel 2, responded with a verification card giving video power. Verie signer was Ken Lux, Chief Engineer (Rosenberg)

NEBRASKA: KNOP, North Platte, channel 2, sent a form letter signed by Roger Hird, Chief Engineer. Letter includes power and location. (Rosenberg) Station is a regular QSLer.

NEBRASKA: WOW, Omaha, channel 6, sent a WOW Radio card in 9 days. Verie signer's name is McGowan. (Egan)

NEW YORK: W64AA, New York, channel 64, a translator of WNEW, replied by letter. The signal was beamed in a northerly direction "assume signal bounced off a building". Power is 1 Kw, 64 Kw P.E.P. The letter, signed by K. M. Reichenbach, Asst. Chief Engineer, also gave the gain and frequency. (Luchter)

NEW YORK: WKTV, Utica, channel 2, replied with a vague letter from Carl Egolf, Chief Engineer. (Rosenberg)

OREGON: KVDQ, Salem, channel 3, verified in 7 days with a letter signed by Robert Ridgway, Chief Engineer (Dyer) Very good...

PENNSYLVANIA: WFBG, Altoona, channel 10, replied with a large yellow QSL card with AM-FM-TV information on it. Total time: 9 days. Verie signer looks like A. Rossbank for R. L. Kline, Chief Engineer. (Egan) Suggest you address your reports to Mr. Kline as he signed my QSL card (Matthews)

PENNSYLVANIA: KDKA, Pittsburgh, channel 2, sent a 50th jubilee card with information on the AM outlet. (KDKA Radio began in 1920) (Rosenberg) This station took over from the old Dumont station in Pittsburgh on channel 3. Anyone remember the call? WDAU? If anyone can remember, drop me a note. I remember watching the change-over from 3 to 2 when I was only a youngster!

TEXAS: KPRC, Houston, channel 2, sent a card giving power, location, tower information and was signed by Carroll Wilson (Rosenberg)

CANADIAN TV

ALBERTA: CKSA, Lloydminster, channel 2, dispatched a letter in 32 days with an apology for the delay. Gave transmitter and antenna information. Verie signer was H.G.S. James, Engineering. (Dyer)

NEWFOUNDLAND: CJCN, Grand Falls, channel 4, sent a card from CJON Radio in St. John's in 3 months. (Rosenberg) Excellent, Joel! This station is operated by the Newfoundland Broadcasting Corporation, who also operates CJON; thus the connection.

ONTARIO: CKWS, Kingston, channel 11, sent an AM-FM-TV card of verification. No signer indicated on the card and the time was 1 month. (Egan)

ONTARIO: CKLW, Windsor, channel 9, sent a CKLW Radio card. Verie signer was M. Wiedemann. Took three (3) follow ups on an 80 minute reception report. Last follow up took just 20 days. (Egan) Rough, Dave.

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Remember, when reporting to TV stations, ALWAYS include return postage...whether in the form of a stamp to your domestic stations or an IRC (available at your post office for 22¢) for a foreign TV station. They are doing a FAVOR by replying, let's not spoil it. Oh yes, be sure to send at least a postcard thanking them for answering. This is really more important than many think....the station personnel are spending time to verify after checking your report. A thank-you, even brief, is really a must! Thanks to this month's contributors....hope to see you again! They are.... Les Prus in Manhattan, Kansas; Pat Dyer in Boulder, Colorado; Paul Luchter in Oceanside, New York; David Egan in Valleyfield, Quebec, Canada; J.J. Rosenberg in Downsview, Ontario. and Harry Hein in Chicago, Illinois Hello also to Frank Wheeler in Erie, Pennsylvania!

WESTERN-TV-DX

November 1971

Dennis Park Smith
 Music Department
 Chico State College
 Chico, California 95926
 Deadlines: 12th of each month

Conditions are not very good through September apparently, as the two letters received here have little exceptional loggings to report. Either viewing times or DX was scattered, as a fairly good tropo session was seen in Oklahoma around 27 Sept. and Es was noted in Texas (MUF 96 MHz) on the 29th. To our August list of Es dates, we must add the 14th & 18th, as well as possible trans-equatorial DX on the 18th. The only Es date reported so far in September is the 29th.

Glenn Hauser, PSC Box 42309, Kelly AFB, Texas 78241 (3 Aug - 30 Sept) (CST)

Von Army, Texas, is my new location, about 7 miles SW of the former one. Reception is quite a bit better out here except for some Highway-81 ignition noise. VHF antenna is about 33 feet above ground, with potential of another 15 feet extension; UHF P-7 dish is about 5 feet higher. Enjoying the extreme gain of the dish and B-T Able U-2 amplifier, but sharp directionality can obscure a DX signal. Houston U's at 200 miles are always there, with their megawatts, but others such as KXIX-19, KNCT-46 and KDTV 39 need a little help from tropo. Quite a few translators in the 100-200-mi range, but no sign of them yet. Not the reception on 18 August when there appeared to be some trans-equatorial scatter; the Great Duct's tail reached down to here on 16 August (Bob Cooper's great tropo ducting was then seen in Oklahoma on morning of the 17th. dps) before I moved and put up the dish!

Then, in September, there isn't much to say except that conditions have been lousy. Anyone wishing to contact me on a week day can usually find me at 512 925-8200; no home phone yet.

A2 Tr	0600 KRBC- 9 Abilene TX	N 215	15	GW	1649	KVRL-26 Houston TX	N 200
	(0624 joint KACB Id & Harry Holts Morning Show; 0629 sole aud. Id while joint video)					(NEW STATION; first day programming. Tone test; 2035 weather w/satellite pix; 2047 begin movie "in B&W")	
	0739 KUHT 8 Houston TX	180					
	(CB, CL keyed)			16	Es	1100 WESH-? 2 Daytona Beach FL ?	
Es	1758 WMT - 2 Cedar Rapids IA	965				1120 YSR-? 2 San Salvador, ElSal.?	
	1828 WBAY- 2 Green Bay WI	1190				(unprofessional supers in SS; offset +; poor horiz. but also VTR breakup)	
	(voice over promo ment. BA-Y-land & TV2)					1200 KNXT 2 Los Angeles CA	1190
	1829 WISC- 3 Madison WI	1070				(1259 Id; very steady for entire hour)	
	1852 WBTV 3 Charlotte NC	1100				TD 1959 KETS 2 Little Rock AR 2252 N 510	
10	Es 1100 KNOP- 2 North Platte NE	825				(ermt sbt pgn being seen in B&W in AR; very steady VAFI; 2059 s/ff, tone, IHTF; ment.: first of 5 interconnected ETV strs thruout AR "including Mtn View, Arkadelphia, --- & Jonesboro"; SSB by Univ AR band, 2103 off)	
	(Mid-day Revue! caster backed by flags)					2045 KATV? 7- Little Rock AR ?	
	1129 KUTV 2 Salt Lake City UT	1080				(same xmtr QTH as KETS; no sign of FMs or other LR TVs)	
	1147 KWGN 2 Denver CO	805				18	Es 1705 XEW-? 2 Mexico DF ?
	1148 YSR-? 2 San Salvador, ElSal.?					(TE?)	(1950 strong LA CCI, about 3-4 kHz whine, like TE; 2000 W2 news set, headlines, "Noticias Dinecoq"-makers of Brandy Presidente, etc; 2003 multiple video GRM; lots of fade like Delhi/Karachi; 2008 old XEW Id but electronic audio, & animated V.2; 2009 Walt Disney Presenta-El Magico Mundo del Color; 2011 severe multipath in Moon Pilot)
	(a.a.p. cartoons in English)					1955 XEZ-? 3 El Zamorano Gro ? (// ch2)	
	1729 WUSN- 2 Charleston SC 4434	1125				2106 YSR- 2 San Salvador (Id)	1210
	1759 WLW-D 2 Dayton OH	1075				(Following is from Von Army) (Ant. c.30 ft)	
	1833 WDCN 2 Nashville TN	825				29	GW 0030 KTXS-12 Sweetwater TX
	1912 KDKA- 2 Pittsburgh PA	1295					N 235
	1940 WSB - 2 Atlanta GA	885				(0106, s/ff ment. 3 xltrs: ch72 Brownwood, ch55 San Angelo, ch2 Brady)	
	(Atlanta Braves TV net)						
	1943 WRCB- 3 Chattanooga TN	865					
	(Atlanta Braves BB//WSB; local ad for Carpet Supermarket on Cherokee Blvd)						
11	Es 0959 WJMN 3 Escanaba MI	N1315					
	1159 KDIX- 2 Dickinson ND	1220					
	(ad Fallon County Fair in Baker MT)						
	0959 WBAY- 2 Green Bay WI	1190					
	2000 WLW-D 2 Dayton OH	1075					
12	Tr 0420 KLFY-10 Lafayette LA	2124	380				
14	Es 0730 KTVQ- 2 Casper WY	1010					
	1029 KDIX- 2 Dickinson ND	1220					

31 Tr	2100 KRBC- 9 Abilene TX	220	(6) Tr	0435 KTRE 9 Lufkin TX	275
	2128 KCTV 8 San Angelo TX	N 180		(thon w/Lufkin; obliterating KRBC relay key)	
	(end weather w/ dials)			0450 KLTV 7 Tyler TX ('thon)	290
S1 Tr	2225 XHAB- 7 Matamoros Tams 3455 245			0505 KMOM- 9- Monahans TX	N 305
	(usual FN pgm; 2235 ads incl Del Prado cigs;			(thon; Odessa-Midland phones, 0709 still)	
	2301 start "24th"; VAFI at 2330; //900 kHz			0505 KRBC- 9 Abilene TX	220
	exc. certain ads; 0041 Ruta 66)			0510 KTXS-12 Sweetwater TX.	235
	2315 XET - 6 Monterrey NL 0355 165			0535 KBIM-? 10 Roswell NM ?	
	(ending TIM Notimex, "...en todo color, su			(N. Ø CCI to KZTV)	
	teleperiódico Notimex en cadena con Puebla,			0653 KXIX 19 Victoria TX 4555 105	
	Monterrey, Guadalajara, Veracruz, Tampico,			(RTMA TP, no CL)	
	Saltillo y Torreón; "tim con 1,800,000			0708 KSI S-? 8 Roswell NM ?	
	telehogares en cadena nacional"; musical			(Ø CCI to KGNS NW)	
	int: Never Fall in Love Again, 2318 start La			0929 KACB- 3 San Angelo TX N 185	
	Brinca Infernal; 2357 s/off to same mx)			(audio Id barely w/KIII video)	
2 Gr.	1555 KNCT-46 Belton TX N 140			0935 KMID-? 2 Midland TX ?	
	//KLRN; 1558 local promos of KLRN pgms, Id)		12 Tr	2102 KVUE 24 Austin TX N 85	
	2100 KVRL-26 Houston TX 210			(2116 "The 12-yr Dream" explaining station's	
	(Id ad Houston's most powerful TV stn)			history. NEW STATION, first day, 1.95M.)	
3 Tr	2256 KVRL-26 Houston TX 210		13 Tr	2100 XEFE- 2 Nuevo Laredo Tams 3344 140	
	(s/off, ment. Crest BC Co., xmtr at			(stronger than usual)	
	Shell Plaza; 2660/530 kl.)		14 Tr	2000 KNCT-46 Killeen TX 140	
5 Tr	0640 WFAA- 8 Dallas TX 5555 250			(NET fest, not //KLRN, s/off 2100)	
	0727 KDTV 39 Dallas TX N 250			2000 KHFI-42 Austin TX 5555 85	
	(0729 Revival Fires)			(High Flight & SSB, s/off, STL KRN93)	
	0734 KTBS-? 3 Shreveport LA ?			2000 KVUE 24 Austin TX 5555 85	
	0802 KENS- 5 San Antonio TX 20			(2306 s/off, STL is WHA71)	
	(0825 on aux xmtr downtown; 0827 armt reduced pwr)			2302 KDTV 39 Dallas TX 3335 250	
	0805 KRGV- 5 Meslaco TX 225			(Texativ ad)	
	(local nx o/ then w/out KENS)			2333 XET - 6 Monterrey NL 2235 265	
	0805 WBAP- 5 Fort Worth TX 250		15 Tr	0543 KRBC- 9 Abilene TX 220	
MS	1540 KLINE? 3 Lexington NE ?			(Co-slide w/ KACB & music.	
	(ant N; World Press)			Includes modified NBC Peacock)	
6 Tr	0435 KBMT 12 Beaumont TX 295			0558 KACB- 3 San Angelo TX 185	
	(Jerry Lewis/MDAA telethon)			(joint s/on w/ KRBC)	
	0435 KPHC- 2 Houston TX 185			0708 KSWO- 7 Lawton OK N 325	
	(Jerry Lewis/MDAA telethon)			(Ø CCI to KTBC, north; IHTP, 0729 SSB)	
S29 Es	1645 KUGN? 2 Denver CO ?		(29) Es	1820 XETV 6 Tijuana BCN 1105	
	1729 KNXT 2 Los Angeles CA 1185			(ABC news)	
	(1900 KNXT Id, The Big News; gone by 1915)			MUF reached 96 MHz.	

Bob Cooper, Jr., 2609 Chaucer Drive, Oklahoma City, Oklahoma 73118 (8Sep-8Oct) (CDT)

This period started very poorly here, and ended. Fall-type ducts and tropo started to form over and over again, only to fall apart before they amounted to much.

Sept 9-10-11-12: Out of town. No Es at all this time.

Sept 12 2005 tune-in, WNDU-16 IN (742 mi) fighting w/ semi-local KUHI-16 MO; 2130 unIds on 17 & 30; 2230 KDNL-30 MO (458) in briefly with heavy 10-kHz CCI.

Sept 22 1930 WNDU-16 under KUHI again; 2010 weak probable KDNL-30.

Sept 23 1835 weak WNDU-16 under KUHI again, gone by 1900.

Sept 26 0900 t/in, signals from SW, west very good. KSEL-28 KCBD-11 KLBK-13 TX, KFDW-12 NM (325 mi) KGLD 11 KUPK-13 KS and others; 0951 KSWIS-8 NM (420); 1015 likely KAVE-6 NM fighting with KAUZ-6 TX & KTVC 6 KS but not enough to log; 1135 KTXS-12 TX excellent. By 1210 New Mexico signals gone, signals north of me coming up in level.

Then conditions picked up a tad.

Sept 27 Blew this one by missing the alarm. At 0811 tune-in found local KWTV 9 OKC off air and promptly logged KMOM-9 TX (420) KRBC-9 TX KPNE-9 NE followed by KDNL-30 MO KHNE-29 NE KMEG IA KXNE-19 NE KVFD-21 IA KYNE-26 NE and bunches more. Had to leave at 0910 so muffed this one good! 1959 t/in, found WNDU-16 riding under KUHI again, 2004 WAND-17 IL (566), 2007 KCSD-19 MO, 2018 WMBD-31 WEEK-25 IL (561), 2031 WRAU 19 (561), 2035 WTVP 47 (561), 2108 WICD IL (625), 2139 KOSA-7 TX (420), 2209

KRCG 13 MO (350), 2215 KSLB-8 NM (420), 2223 WFLD-32 WSNS-44 Chicago (697), and on into: Sept 28 0015 K07FX Gage OK (140), 0034 KETV 7 NE (420), 0042 KMOM-9 TX, 0050 WQAD-8 IL (562), 0052 WOV-6 NE (420), 0053 KAVE-6 NM (435), 0058 WLS-7 IL (697), 0105 KWWL-7 IA (559), 0108 KWAB-4 TX (370mi--this one was exciting, considering their 13 kw at 380 feet!), 0118 to past 0200 WISN-12 Milwaukee (731), 0134 UGN-9 IL (697), 0257 WREX-13 IL (651), 0556 WHO-13 IA (471), 0609 KHQA-7 MO (501), 0610 LMT-2 IA (548 mi on tropo*, 0615 KGIN-11 NE (375), 0628 KOSA-7 TX again, KSLB-8 NM and others.

UHF very poor here this AM due to exceedingly high moisture content over Midwest. Ducting present was "tuned" to VHF high band. Who in IA or MN hits air apx 0555-0557 on 12 w/split-screen CB with what looks like small box insert lower right with call? Audio 1-kHz tone, covered at 0559 by KTVH 12 KS. Also logged (subject to Id) western OK VHF translators on 10 & 7 around 0110. 10 was obviously ch-9 input as they were repeating KMBC-9 MO (probable KWTW OKC normally), W/NW from here. 7 was w/SW, ch-5 input, repeating KCMO-5 MO (normally KOCO. I assume), not K07FX as they were also in at time.

Sept 29 0640 KFDW-12 NM-KTXS-12 TX and others in 300-mi range good (SW best) but nothing really unusual. 1930-2000 weak WNDU-16 IN against KUHI-16 MO.

Sept 30 1932 weak bursts of WNDU-16 against KUHI-16.

And that was it for the big "tropo" month (well—it was supposed to be the big one!). Totals now 376 stations (132 UHF), 40 states (19 UHF), 7 countries, for 22 months of active DXing here in OKC. 73.

Dennis Smith — I finally got my DX notes up here (along with Glenn Hauser's). After mid-July, no Es was seen in Wasco CA, and after late July, I wasn't home much of the time. At this time, too, stable conditions allowed an inversion to form in the Central Valley of California for tropo ducting of sorts, permitting above-average VHF and even more effective UHF. It was very good on 15 & 30 July mornings, and on some other dates through August. In summary, these were the loggings:

KLOC-19 Modesto CA (seen 15 Jul)	2435	170
KTXL 40 Sacramento CA (15 & 20 Jul & many other days)	4545	215
KMST 46 Monterey CA (20 Jul)	1225	150
K71BC Lemon Cove CA (20 Jul only)	(KFSN30) 1025 N	55
K73BZ Exeter CA (consistent; xmtr on hill apx 1500' ASL)	(KQED9) 3245	50
K74DK Madera CA (first seen 15 & 20 Jul, other dates in Aug)	(KQED9) 1125 N	100
K76CS Hanford CA (frequent; in whenever ducting improves)	(KQED9) 2245	55
K79BU Porterville CA (consistent; xmtr on hill at 1200')	(KQED9) 3035	40
K80CN Mariposa area CA (1st seen 20 Jul, others in Aug, mtn xmtr)	(KQED9) 2435 N	140
K82BM San Benito Mtn CA (xmtr move; now consistent; was on 3000+-ft Joaquin Ridge (85mi), now about 5300 ft)	(KQED9) 2235	95

All of the translators are 100-watt xmtrs with ERP btw 800W & 2kW, except K71BC which is 10 or 20 watts (ERP something over 50W but very little in my direction). Not bad, considering my equipment--1954 Zenith 19L28 21", Blonder-Tongue 1965 BTX-11A UHF Converter, 1954 Walsco 1-bay VHF-UHF Stacked V's at 46 ft above ground (371 ft ASL).

The only other DX at all was a surprise Es opening on 31 July, from 1230 t/in to 1430 PST, my longest-duration FMEs heard. First heard 20 mi S of Redding CA while driving north (wire on portable hooked to windshield upper center which acts like a dipole or slot ant.); most then logged while stopped in Redding, including KFYR-92.9 KBMR-94.5 Bismarck ND (1150mi), KOYN-93.3 Billings MT (765), KIVE 96.5 Glendive MT (980).

IT WAS A UNIVERSITY OF WISCONSIN PROFESSOR, EARL M. TERRY, WHO ESTABLISHED ONE OF THE WORLD'S OLDEST BROADCASTING STATIONS. AN EMINENT PHYSICIST, TERRY GOT THE UNIVERSITY STATION LICENSED IN 1915 WITH THE CALL LETTERS 9XM. THE STATION IS STILL IN OPERATION TODAY AS WHA, "THE NATION'S STATION."

AT FIRST, TERRY COULD ONLY TRANSMIT MORSE CODE. VOICES OR MUSIC WERE HEARD BUT A FEW MINUTES A DAY AND ONLY AT SHORT DISTANCES. BY THE END OF WORLD WAR 1, HOWEVER, TERRY AND HIS STUDENTS WERE MAKING REGULAR BROADCASTS. BY 1921, DAILY BROADCASTS FROM WHA COVERED SUCH VARIED SUBJECTS AS AGRICULTURE, SPORTS, MUSIC APPRECIATION AND WEATHER.



FCC TV NEWS - DATA

CHARLES A. DOBBINS
12851 Longacre
Detroit, Michigan 48227

AUTHORIZED STARTS

WDXR-TV Paducah, KY. Authorized program operation on ch. 29 ERP 759 kw. vis., 110 kw. aur.
AAT 710 ft.

WTVP(TV) Peoria, IL. Authorized program operation on ch. 47 ERP 558 kw. vis. 111.6 kw. aur.
AAT 337 ft.

FINAL ACTIONS

Charlotte Amalie, VI. FCC gtd application to Virgin Islands Public Television System to chge channel assignment from reserved ch. 3 to reserved ch. 12.

Jackson, Miss. Lamar Life Bdcstg Co. denied application for new station.

Providence, RI. FCC modified CP of Ch. 16 of Rhode Island Inc. to chge from ch. 16 to ch. 64.

Selma, AL. FCC denied motion by WCOV Inc. licensee of WCOV-TV Montgomery, AL. for stay of construction to chge facilities of WSLA-TV of Selma.

RULEMAKING PETITIONS

Ann Arbor, MI. Wolverine-Morningstar Bdcstg Inc. req amendment of TV table to give ch. 29 to Ann Arbor and delete ch. 36 from Lansing, MI. substituting ch. 63.

Montrose, CO. Woodland Bdcstg Inc. req amendment of rules to assign ch. 8 to Grand Junction, CO.

Newport, NE. Cornhusker Television Corp. req assignment of ch. 24 to Newport.

San Bernardino, CA. NorCal Telecasters req ch. 66 be assigned to Vallejo-Fairfield, CA.

CALL LETTER ACTIONS

Grand Valley State College, Grand Rapids, MI. gtd *WGVC(TV)

South Texas Educational Board Council, Corpus Christi, TX. gtd WEKT(TV)

EXISTING TV STATIONS

FINAL ACTIONS

Altoona, PA. WFBG-TV gtd CP to chge type ant. ERP 214 kw. vis., 21.9 kw. aur.

Charleston, SC. WWIC(TV) gtd CP to make chges in xmitting equipment.

Columbus, O WLWC(TV) gtd CP to install precise frequency control equipment.

Fort Myers, FL. WINK-TV gtd mod. of license covering reduction of aur. power to 6.46 kw. ERP

Fort Smith, AR. KFPW-TV gtd application for program test authority for station.

Hayes Center, NE. KHPL-TV gtd CP to chge aur. amp., chge aur. xmtr, aur ERP 11.2 kw.

Klamath Falls, OR. KOTI(TV) gtd CP to chge xmtr equipment.

Medford, OR. KMED-TV gtd mod. of lic. covering chge of aur. ERP to 19.1 kw.

Miami, FL. WLTV(TV) gtd CP to chge xmtr.

Mobile, AL. WALA-TV gtd CP to install alt. main vis. amplifier.

Peoria, IL. WRAU-TV gtd CP to chge ERP to 813 kw. vis., 81.3 kw. aur., chge xmtr.

Portland, OR. KOIN-TV gtd CP to chge ant.

State College, M S. *WMAB(TV) gtd license covering station.

CALL LETTER APPLICATIONS

Denver, CO. KLZ-TV req KMGH-TV McGraw-Hill Inc. (applicant to buy).

CALL LETTER ACTIONS

Anchorage, AK KHAR-TV gtd KIMO(TV)

Kenosha, WI. WKSH(TV) gtd WKRL-TV.

CONTRIBUTIONS FROM READERS

WHYY-TV ch. 12 Philadelphia, PA. has given termination of employment to all of its producers, directors, artists, and production assistants at its Philadelphia studio. This is due to a lack of money causing the elimination of all local programming. All of its future programming will be from the Eastern Educational Network.

Zenith Radio Corp. of Chicago has applied to the FCC for the purchase of WCFL-TV ch. 38 for an outlet for its Phonevision STV system. If approved, WCFL will become Zenith's 2nd station devoted to pay-TV, KWHY-TV in Los Angeles was the 1st Zenith station for pay-TV.

Metromedia is bargaining for the financially troubled WXIX-TV ch. 19 of Cincinnati, since the earlier negotiation for sale of the station to Welch & Morgan (Washington law firm) for \$3 million fell through.

Stations now off-the-air - WJJY ch. 14 & WMKG ch 54

Stations now on-the-air - WGTU ch. 29, TRAVERSE CITY.

PRECEDING INFORMATION FROM
GARY A. OLSON, DEERFIELD, IL.

Photo contribution was made by Gary Olson.

73's Chan

VHF RADIO DX

Pat Dyer
327 Solar Drive
San Antonio, Texas 78227
Deadline: 12th of month

NOVEMBER 1971

A little F2 has made its way into the VHF band this season.

Hank Holbrook, 7211 Chestnut Street, Chevy Chase, MD 20015 with QSLed DX from the Fair Haven cottage. GMT used.

<u>5-29:</u>	1747,	KSA 930	39.50	Morrison, IL (police, 250 w)
<u>8-3:</u>	0143,	KKH 906	37.26	Texarkana, TX (police)
	0155,	KIB 422	37.26	Lewisburg, TN (police)
<u>14:</u>	0825,	ORW	109.8	Norwich, CT (FAA VOR, c.w., 120 w)
	0842,	GON	108.4	Groton, CT (FAA VOR, c.w., 145 w)
	1230,	KEE 283	154.905	Holmdel, NJ (NJ Highway Authority; Garden State Parkway; 330 w relay)
<u>16:</u>	1600,	KGD 273	33.74	Bel Air, MD (county fire, 330 w)
<u>18:</u>	0215,	D-ABOT	127 /	nr Baltimore, MD (LUFTHANSA Flight 5451/17, Boeing 707-330B, charter Baltimore-Frankfurt; 25 w)
	1410,	-	128.3	(AIR JAMAICA Flight 010, DC-8-61; JFK-Norfolk-Montego Bay)
	1432,	-	128.3	40 mi s. Norfolk, VA (PIEDMONT Flight 734; Boeing 737; 30 w)
<u>29:</u>	1311,	N366US	128.3	over Johnstown, PA (NORTHWEST, Boeing 707-320; 25 w)
	1402,	-	128.3	between Robbinsville and Phillipsburg, PA (UNITED Flight 23; Douglas DC-8; 25 w)

My loggings. Allied A-2586 with built-in whip and 30-ft of random indoor wire antenna. All F2 unless noted. Only Spanish 44-MHz or above noted. CST used. New underlined.

<u>9-22:</u>	1450,	44 Spanish	6:	1325,	KCE 579	8:	1250,	KIY 508 (Es)
<u>29:</u>	1640,	KFL 936 (Es)		1419,	KCD 392		1920,	KIN 645 (Es)
	1703,	KOE 257 (Es)		1420,	<u>KCD 904</u>		1959,	<u>KFL 943 (Es)</u>
	1817,	Long Beach (Es)		1426,	49.99 Sp			L Beach (Es)
<u>30:</u>	1540,	45 Spanish		1502,	<u>KCD 384</u>	<u>9:</u>	1010,	46-Spanish
<u>10-6:</u>	1315,	KCD 915		1527,	<u>KCD 472</u>		1028,	KIM 905 (Es)
	1316,	KOG 634		1528,	KCD 586		1044,	KQC 881 (Es)
	1319,	KCC 482		1553,	<u>KEE 675</u>		1050,	KQD 607 (Es)
	1322,	KCD 346	<u>8:</u>	0150,	KIG 300 (Es)			Pittsbg (Es)
	1323,	KCE 457		1115,	KIM 905 (Es)		1100,	KQD 609 (Es)

KCC 482	35.22	Concord, NH	KIG 300	43.58	Atlanta, GA
KCD 346	33.90	Tolland, CT-f	KIM 905	35.22	Charlotte, NC
KCD 384	33.94	Manchester, CT-f	KIN 645	35.22	Miami, FL *
KCD 392	33 /	S Norwalk, CT-f	KIY 508	35.22	Orlando, FL
KCD 472	33.94	Windsor Locks, CT-f	KOE 257	43.58	Phoenix, AZ
KCD 586	33.94	Wethersfield, CT-f	KOG 634	33.82	Kent, WA-f
KCD 904	33.62	Leicester, MA-f	KQC 881	43.58	Cleveland, OH
KCD 915	33.90	Wareham, MA-f	KQD 607	35.50	Grand Rapids, MI *
KCE 457	33 /	Newton, CT-f	KQD 609	35.22	Lansing, MI *
KCE 579	33.78	Westmoreland, NH-f	-	35.58	Long Beach, CA
KEE 675	33.82	Middlesex, NJ-f	-	43.58	Pittsburgh, PA
KFL 943	35.58	Las Vegas, NM			(f-fire; rest are pagers)

KFL 936 and * ID by A2 tone code.

73, Pat WA5IYX/5

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 stations, 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 "pab" and the PBS offerings. But no non-network "indies". You do a little figuring. There are two "indies" south-southeast; 194 miles give or take a few miles. One is a VHF (channel 11) and the other is a 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 dead 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. First, what is a "useable" picture" and "useable sound"? Simple enough - one that my wife will sit and watch and not complain about the picture quality! (Remember - she is accustomed to reception from four local transmitters 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 channel 11 antenna heading. (No wide open pre-amps 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 4,000 feet you would have a fairly constant 100 microvolts (minus 20 dbmv).) And that would be with a modest 40 element antenna array (four ten element yagis in a box).

So let's work backwards. If 4 ten element yagis at 4,000 feet would produce 100 microvolts, and we lose 3 db of signal everytime 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

big to maintain say a 50 microvolt (minus 25 dbmv) input level to the pre-amplifier?

Well, everytime 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 is our goal, we have 13 db to make up. So make it eight ten element yagis and we add (up to) 3 db - now we are at minus 35. Now go to 16 ten element yagis and we are at minus 32 dbmv.

Humm, 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 alot 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 are \$15.00 each).

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 bi-sects at 90 degrees the true antenna heading between my receiving location and my distant channel 11. When everything is working correctly, this will give me exactly minus 25 dbmv input. Not much 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 new SCX series is switch selectable for either 75 ohm un-balanced - coax - or 300 ohm balanced - twinlead), so matching a set of four together is as simple as using a four 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 16, and then the two 16's together for 32 antennas, diversity fed, even using .412 aluminum coax (very low loss) for phasing lines, we have nearly 2.0 db phasing line loss!

Humm. That almost wipes out the extra antenna gain of the second set of 16 yagis.

To compensate for this, each bank of 16 antennas will have its' own low noise pre-amplifier. We could carry this even further and give each four antenna sub-bank its' own low noise pre-amplifier, 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 than 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 (1,800 microvolts) at the input to the receiver down line. With 1.0 db of down line loss, that's around 1,500 microvolts delivered to the receiver.

Humm, 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. (L.O db noise pre-amplifier is such a device.) But, unfortunately, a signal that weak is very susceptible to the least little bit of degradation. Such as co-channel interference. (And lot's of other things too, including cars, lawnmowers, low flying geese and so on.)

The clean, simple pattern of a single ten element yagi 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, un-expected (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.

It may be necessary to drop the channel 11 signal to video (between the Conrac and the video monitor) and build up a video filter to take out the resulting zero beatnote. There are commercially available CCI filters out; at \$900. a whack. They have three switch positions to eliminate zero beat, plus 10 and plus 20 kc video beats. One can be built in the shop for around \$50.00 - if you have the test equipment to calibrate it. I do.

So that leaves just one real problem. Selective fading of the audio and video. You know, when one stays up and the other fades down. The receiver AGC won't handle this one; its' keyed to the video carrier only. But a selective post amplifier strip (or pair of strips really), one keyed to the audio carrier and one keyed to the video carrier will compensate nicely for such fading. Split the antenna download output into two selective AGC controlled strip amps, monitor and level each of the two carriers independently, and then mix the resulting outputs back together again. Another project for the lab!

As you can see, putting in a receiving system for a 194 mile distant channel 11 is no trick. Only slightly more complicated than putting up a big all channel antenna at 70 feet and waiting for the conditions to break! Only this way we make our own conditions. To ensure that 95 % of the time or better the signal is of enjoyable viewable quality.

Will we watch it when the project is finished? Probably not. Most of what the "indies" run is off-network "pap" anyhow. Will the project be worth the effort? Well, winter is coming and there has to be a better way to pass the time than reading and re-reading last summer's log books.

Besides all of that, we will be the only family on the block (or in the city or county) with five channels of television that includes an "indie". So what are you doing this winter?

NOTE: BCB'S TECK NOTES is written by Bob Cooper, Jr., 2609 Chaucer Drive, Oklahoma City, Oklahoma 73120. Your comments are invited.

FM RADIO

Editor: Roger W. Winsor
718 N. Fremont Road
Valparaiso, Indiana
46383

Russ Brown 3274 South Lake Shore Dr. St. Joseph, MI 49085

Conditions have dropped off sharply here in Sept. and so far Oct. has been dead. Now to the handful of openings I caught in Sept: 9/15 KANU 91.5 KS in by itself @1000; 9/16 the twin cities in well between 0700 and 1100; 9/17 tropo in the FM produced KANU again; 9/18 tropo S & E. first noted @2245 but probably began earlier, Western PA, WV in well and also WPVR Roanoke VA w/jazz @2255 for a new state & best of all WRAS 88.5 Atlanta, GA w/prog rock @2315 (600). Tropo died around 2345 w/passage of cold front. 9/21 WKES 88.9 Chattanooga TN w/religious first noted @1700 (525), WDYN 89.7 also religious. @2200, WIOM 106.5 w/MOR spot @2119, WDOD 96.5 "your good neighbor stn" w/gospel mx @2230. 9/22 WAID 104.5 "stereo 104 in Memphis" w/MoR, dimensions in black history, nx @0040, new calls by the way are the opposite of AM WDIA also in Memphis, KWAM 101.1 w/AN c&w show @0100 (525), WMC 99.7 also in of course, WRSA 96.9 Decatur AL w/MoR @2330 (535). 9/27 to 28 vg tropo into OK w/KAN U @2245, KUDL 98.1 Fairway KS @2307 w/rock, KOFM 104.1 OK City w/MoR @2330 (750), KOCY 96.1 @0000, KMBR 99.7 KC w/MoR @0005 (470), KCKN 94.1 KC @0015 w/c&w, WIBW 97.3 Topeka @2320 w/c&w, KPRS 103.3/WDAF 102.1/KWKI 93.3 also in, KEYN 103.7 Wichita w/rock @0130 (660); later KSWT 107.7 Topeka KS w/MoR @0450, KQTY 101.3 w/c&w farm rpt @0510 (660), KOIL 96.1 Omaha NE w/MoR @0520 & KFAB 99.9 @0530. 9/29 tropo in AM to IA produced KILJ 105.5 Mt. Pleasant w/nx @0750 and at long last I managed KDPS 88.1 Des Moines w/typical school pgmg & nx @1000. Never hrd in past despite frequent tries during school year. A number of stations in the vicinity have reduced skeds quite a bit, I guess due in part to the economy. Also WSTK 105.5 Woodstock IL has been off the air entirely for about a month now, but have just come back on w/former format of c&w. 73.

Pat Dyer 327 Solar Drive San Antonio Texas 78227

As planned, I took my little FM set with me to the conference at Utah State University at Logan. Results: KWHO 93.9; KCPX 98.7; KSL 100.3; KWIC 97.1; KRSP 103.5; KQMU 94.1 all in Salt Lake City (75) and KID 96.1 Idaho Falls (125). This was all in the Sept 12/15 range. How nice to be where there is a lot of open MHz on the FM band again! I've been back here in San Antonio since Sept. 18 (after going thru a 15" snowstorm in Boulder my last day). I'd almost forgotten what FM tropo sounded like. Evening of Sept. 29 Glenn Hauser gave me a land line about FM Es in progress at about 1845 CST. I'd been busy w/50MHz and the TV and didn't think there was the slightest chance for the MUF to be that high. By the time I'd gotten to the FM it was gone (as was 50 MHz by about 1905). Nothing else exciting, just Houston m1 tropo.

Hank Ward 753 Kingston Road Lexington, Kentucky 40505

To Waldo Bishop: 1971 Shopping Center Directory lists two Northern Lights shopping centers....Anchorage Alaska and Syracuse NY. Wity Mets BB, the latter sounds like a sure bet! Little DX to report. Only new ones are WPVR 94.9 Roanoke, Virginia at 0000 s/off and WSCH 99.3 Aurora, Indiana on regular schedule, both 9/15. 73's.

DID YOU KNOW.....THAT THE HIGHEST MOUNTAIN IN AUSTRALIA IS MOUNT KOSCIUSZKO, DISCOVERED BY A POLISH EXPLORER AND NAMED AFTER ONE OF HIS FELLOW COUNTRYMEN? THAT MADAME CURIE WAS POLISH (MAIDEN NAME MARIE SKLODOWSKA)? THAT NICOLUS COPERNICUS AND FREDERIC CHOPIN WERE POLISH? THAT CHOPIN WROTE REVOLUTIONARY MUSIC AND WAS EXILED FROM POLAND BECAUSE OF IT (BY THE OCCUPIERS AUSTRIA, PRUSSIA AND RUSSIA).

Frank Merrill 3632 N. Detroit Ave. Apt 61 Toledo, Ohio 43612 EDT

All DX is via tropo. Current totals from Toledo is up to 257, and I'm still using strictly rabbit ears for DX purposes. "What's an outside antenna?" My fallacy (?) of poor eastern reception from this apartment location was definitely shot to smithereens during the 10/1 tropo opening! I now realize that any direction is possible from up here! I had a Motorola FM 68 M FM convertor installed on 9/7 and even it has been of some help to me in building up my log. I still need WTTT 103.7 and at 45 miles it's by far my closest unheard commercial FM station! "M" means that station was hrd on car radio, ie mobile. 9/14 WCUE 96.5 Akron 0830 EDT "M" ID. 9/29 WBKE 89.5 N. Manchester IN 2318 spotlight on sports. 9/30 WDTR 90.9 Detroit 1722 Re: Navy recruiters in Detroit, WFBR 94.5 Buffalo 1730 ID ment. operating hrs. as 0700 to 2300, WRUW 91.1 Cleveland 1800 "plain" ID 10 watts @100 miles, WBEN 102.5 Buffalo @1800:30 ID, MoR mx, WITF 89.5 Hershey PA @2321 History of Opera in progress "M" 400 miles on car rx! WRMU 91.1 Alliance OH @2334 m ID, CBL 94.1 Toronto @2400 m ID/nx. 10/1 WKJF 93.7 Pittsburgh @0015 m "and now WKJF..." barely o /WJFM, WMIV 95.1 Bristol Center N Y 0033 m Christian Bestg. network ID, didn't hear local WMIV ID, but I'm still counting it. Severe WPTH QRM, CHYM 96.7 Kitchener ON 0041 m talking about local HS fb, WVAC 88.1 Adrian MI 0059 s/off, WUOT 91.9 Knoxville TN 0202 s/off, state #14 (400), WJAS 99.7 Pbg 0220 ID, WYZZ 92.9 Wilkes Barre 0230 Bulletin Bd./ID, 93.1 QRM (400), WJTN 93.3 Jamestown NY 0233 local wx, EDT TC given, WIFI 92.5 Philly 0543 "...on WIFI..." solid gold RR or HP (455), WHDL 95.7 Olean NY 0555 s/on. This freq. was wild @0558, WHLD, WZZM, carrier from WPTW and a song announcer probably WPHL...) WAKW 93.3 Cincinnati 0600 s/on WGRP 107.1 Greenville PA 0610 "...here on WGRP", WUBE 105.1 Cincinnati (note call change Frank RWW) "57 degrees and clear in Cinn.", WCNW 94.9 Fairfield OH 0617 ment. sponser in Oxford, WFAH 92.5 Alliance 0635 local mx, glad local WMHE s/on @0730! WHLD 98.5 Niag. Falls 0700 AM/FM ID and WGCL was on! CJRT 91.1 Toronto 0707 Canadian nx in progress, CKPC 92.1 Brantford ON 2 political talk for Bill Davis; local ad, WCOL 92.3 Columbus 0846 m talking about "you WCOL listeners". 10/2 WVNY 92.9 Burlington VT 0601 "More mx in stereo on WVNY Burlington" state #15, CHFI 98.1 Toronto 0626 "...on CHFI" extro'ing songs, CJOY 106.1 Guelph ON 0620 "58 degrees in Guelph" and nx, CHIN 100.7 Toronto 0700 good morning jingle/ID. The 10/1 opening was definitely a surprise, because I never again expected to reach out to 400/500 miles with the ears, particularly into the east. I was forewarned on 9/30 when I was getting things I shouldn't like WFBR 94.5, w/WRWR only 33 miles away and WRUW 10 watts. I had planned with my parents, and when I found I could listen to WCKK 103.7 (for entertainment) all the way up with NO PROBLEM at all in the car, I knew something was up. By the way WGLN 105.5 off all evening of 9/30 but I couldn't do anything because 105.3 and 105.7 were far too strong.

Roger Gravelle 35 Aldborough Ave. St. Thomas Ontario Canada

8/14 WELW 107.9 Cleveland 24 hr. c&w mx in \$, 1700 WGMZ 107.9 Flint MI now 50kw. 9/7 tropo 1600 WLEW 92.1 Bad Axe MI xlnt @130 miles, WHSB 107.7 Alpena MI xlnt @200. Best FM opening this summer. All Detroit, Cleveland, Buffalo etc, most high powered like locals on portable radio, bunny ears down! CHYM 96.7 Kitchener soon to get 50kw October I hope. As of this date 9/12/71 I have not received my July, Aug. or Sept VUD, I'm a full PAID UP member.

DID YOU KNOW....THAT POLAND WAS THE FIRST EUROPEAN NATION TO DECLARE ITSELF A DEMOCRACY AND ESTABLISH A CONSTITUTION BASED ON THE AMERICAN CONSTITUTION, AND THAT THIS CAUSED A WAR THAT DESTROYED POLAND AS A NATION? THE POLISH RULERS, KNOWING FULL WELL THAT WAR WAS IMINENT IF THEY ESTABLISHED THIS CONSTITUTION, DID SO ANYHOW BECAUSE THEY BELIEVED THEIR PEOPLE DESERVED THE FREEDOM AND DEMOCRACY THIS CONSTITUTION OFFERED THEM. NEIGHBORING COUNTRIES INVADDED POLAND FROM ALL SIDES TO DESTROY THIS DEMOCRACY RATHER THAN LET IT SURVIVE AND SET A "BAD EXAMPLE" FOR THEIR PEOPLE.

Dr. Richard #.Wood Louisiana State Univ. Baton Rouge LA 70803

Thanks mainly to Bruce Elving's persuasion at the ANARC convention in Indpls I've taken up FM DSing and am enjoying it immensely. I'm a total beginner in this field, whereas I've been active in SW and MW DX for 14 years continuously (some of you may have read my book Shortwave Voices of the World, or seen my articles in various additions of How to Listen to the World.) FM equipment here is a Heathkit AJ 15...again recommended by Bruce, and I'm glad he suggested it, as I'm happy with its performance. Then a Lafayette IA 450 amplifier, and an Archer twindrive antenna rotor mounted 38' above ground. Baton Rouge is totally flat for many miles around. First observations indicate consistent listening from Houston (254 miles) on the W, Shreveport (208) to the NW and Pensacola (235) to the E. Most distant catch is KTAL 98.1 Texarkana TX (256), but that's only in one night's DXing. Totals for my first night Oct. 5/6 are 58 stations in 6 states; from TX KPFT 90.1, KYND 92.5, KCAW 93.3, KBPO 94.1, KAYD 97.5, KTAL 98.1, KODA 99.1, KLYX 102.1, KQUE 102.9, KRBE 104.1, KJET 107.7 From LA 33 stns: from MS WCCA 94.1, WKXI 94.7, WFXM 95.5, WSLI 96.3, WQMV 98.7, WSWG 99.1; WJDX 102.9, WFOR 103.7, WHSY 104.5, WKYB 106.7, WROA 107.1, WSJC 107.5. From AL WZAM 94.9 Mobile, a largely water patch of 186 mi., and from FL another watery path, WPCS 89.3 which appears to be in loudly all day over 235 miles. Most Texans and others have been reported. No real skip here, but I did get tent. IDs from more distant parts of TEXAS while still installing the rotor, so will be on the lookout for some positive IDs, now that I'm set up I'm in touch with Ron Le Blanc in Marrero LA as I learn the ropes of this aspect of the DX hobby. Bruce Elving's FM atlas is absolutely essential. 73.

Fred Nordquist 302 Sandra Lane North Syracuse, New York 13212

Another good month of FMDX to report w/2 trop sessions on 9.9 and 10.1. All channels now logged w/91.3 finally biting the dust on 9/30 w/WOUB logged. N Y stations logged now at 96. Other stats in Hauser's column. Down to DXi. All st. new to log except as otherwise noted. 9/6 WDSB 94.7 DE MoR 2345. 9/7 WKWK 97.3 WV rr (state #27) 0015. 9/8 WNDI 102.3 PA 24 hr MoR 2315. 9/9 WTOP 98.1 OH relig. prog. 1755, WQAR 104.1 OH 24 hrs. MoR 1830, WFIZ 105.5 OH // AM cw mx 1828, WCHD 105.9 MI Jazz 1901, WKNT 88.1 OH ug rr 1911, WLEN 103.9 MI cw mx 3035, WKNR 100.3 MI "stereo island" 2041, WBEA 107.3 OH MoR 2230, WPOS 102.3 OH 24 hr. relig. sta. 2200, WGIN 105.5 OH rr 2120, WSBM 106.3 Tigers B B 2130, WATZ 93.5 Tigers BB 2300 (Ed note, I also recvd a Michigan duct this same time, must have been a long duct, no?RWW) 9/10 WPAG 107.1 MI Folk B&B 0015, WKNE 103.7 NH MoR 2030. 9/11 to 17 no DX noted. 9/18 unnn WRVA 94.5 VA (400) noisy sig. 0010. 9/19 to 27 again poor CX. 9/28 WHVW 97.7 NY #96 1822. 9/30 WVSC 97.7 Pa mx 1900, WVWC 88.9 WV NPR net 1908, WOUB 91.3 OH NPR net 1930, WCBE 90.5 OH class mx, s/off @2252. 10/1 WWST 104.5 OH s/off @0010, WONE 104.7 OH (475) rr 0011, WCUY 92.3 OH rr 0035, WPLR 99.1 CT MoR 1951. 10/2 WKJG 97.3 Ft. Wayne IN (475) state #28 w/many ads and MoR mx 0031, WCAR 92.3 MI ET SID/OC 0101, WHLS 107.1 MI rr 0108, WAWR 93.5 OH MoR 1144, which winds up DX this mo. 73 & good DX.

Yee Ed will submit his meagre results in this vacant spot: 9/13 WFR 102.7 IN finally definite ID o/unnullable WGLD @0915. 9/14 KGRV 107.7 MO 0700 MoR in \$, then ID. 9/29 local lake trop to WI/IL only WDCG 88.3 IL strong o/all other Chicago area 88.3's 1814 w/TC "4:14 in Downers Grove", then rr mx, also WGHS 88.5 Glen Ellyn @1840 hrd a request line #. WMTN QRM, no Flossmoore at all. Things have been ded here, so sey the Valparaiso nightowl. 73 till next.

DID YOU KNOW.... THAT TADEUSZ KOSCIUSZKO WHO FOUGHT IN THE AMERICAN REVOLUTION DID SO BECAUSE HE WANTED TO SEE LIBERTY FOR ALL, EVEN THOUGH HIS NATIVE POLAND WAS ALREADY LOSING IT? AFTER THE WAR IN AMERICA HE RETURNED TO FIGHT IN POLAND AGAIN AGAINST PRUSSIA AND RUSSIA WHICH AGAIN DECLARED WAR ON POLAND BECAUSE OF THE NEW DEMOCRATIC CONSTITUTION OF 3 MAY, 1791. UNFORTUNATELY, IT WAS A LOSING BATTLE.

Glenn Hauser Von Ormy TX PSC Box 42309, Kelly AFB TX 78241 CST

DX has been much below normal during the past period, with no tropo of note. However, a surprise Es opening reached 96 MHz on 9/29. Some are tropo of 9/5 brought KDLK 94.3 Del Rio (135) @0554 w/s/on; SS pgm from KBPO 94.1 Beaumont. This may be what Merrill had when he thought KBUY was off frequency from 93.9. At 0600 KTXN Victoria (105) a regular on 98.7 noted with deplorable "Stereo 99" jingles. At 0606 a MS burst lasting 15 seconds obliterated KPFT w/class. mx; probably WOI 90.1 Ames IA. KMWT 95.9 Mineral Wells TX (245) came in again @0659. On 9/6 the first FM tropo worth mentioning from the NW Added a new state N M. 0559 KBIM 94.9 Roswell (410) w/OC even w/KFAD s/on, ment. XSTL KQX93, followed by ABC info nx around the world @0600. Also, at 0805, noted variety of mx on 91.3 which proved to be KOCV Odessa (285) w/ID @0831, wx and plugging "OC" (Odessa College" of course. On 9/7 KLLS 94.3 Palestine (245) w/area nx. And Es on 9/29 heralded by KNXT 2. I find that once the MUF reaches 60 MHz on TV it's time to check 88 MHz on FM! The opening on FM lasted from 1745 to 1835: 1745 KFDC 88.5 Northridge CA (1210) w/soul mx, strong at times, again 1752; 1758 ID, 1821 YL DJ; 1821 ID. At 1748 unID on 88.3 w/light classics; 3 SoCal stations listed. 1748 KUSC 91.5 IA (1190) Festival of the Classics, perfect \$ reception; 1830 ID, Psychology Now. Was last station to disappear at 1836. 1750 KPFFK 90.7 IA Palmer Sisters pgm of old 78's and open 2 hr nx block. 1754 KLLU 89.7 Riverside (1145) cl mx, 1804 UPI nx, ID, Music Hall. 1754 KVCR 91.9 San Bernardino (1140) pop mx, 1825 DJ show; 1830 ID. 1754 KSOM 93.5 Ontario (1155) soft mx, 1759 PDT, PSA ID. 1755 unID 96.5 documentary on Shirley Chisolm; 1756 KSFG 96.3 IA (1200) light mx, 1815 i/v about Jewish congregation. 1757 KXLU 88.9 IA OC, 1803 cl mx, 1812 piano, 1831 ID YL DJ. 1807 KCHV 93.7 Coachella CA (1070) SoCal wx, mix KTBC, 1810 local nx. 1808 KBBY 95.1 Yuma AZ (970) NEW ON AIR ID, stereo eqpi ad; 1816 local nx/wx, flash flood watch after 1.27" rain; 1818 tent. KOGO 94.1 San Diego, cl mx, again 1824. 1820 All Things Considered on 89.5 which would be KPBS San Diego (1115). 1834 KMET 94.7 CCI to KIXY (1185) Quite a nice opening. Area tropo on 10/1 brought at 2303 KRLY 93.7 new call, ID, mx after KTBC off; ex KBNO. 2319 KNIT 105.1 Abilene TX (225) sports scoreboard every few mins; KEXL trapped out; ID :2327. KNIT formerly KWKC. 2331 KOAX 105.3 Dallas (265) ex KXXX, soft mx, 2400 ID as "Koxe Stereo 105". And on 10/2 while listening to KLEF, in burst KOOL 94.5 Phoenix AZ (835) on MS just long enough for an ID @0814. Until the next, 73 de glenn.

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

Using a Allied 325 & a Trik Stick with a Ameco preamp, I'm doing fine on FMDX. Locally WKTK 105.7 has stereo 4, a $\frac{1}{2}$ hour a night now. A new FM coming on the air Oct. 1 is WMHI 103.9 Frederick MD. Log now stands at 100 hrd, 50 varied. FM hss been good, w/2 new states hrd the night I stayed up all night. That AM all the stns. I hrd wx reports on had fog. Does fog help TV/FM tropo? Now to DX: 8/7 WESA 98.3 Charlevoix PA @1830, WWSV 94.5 Pittsburgh @1900, WNUF 100.7 New Kensington PA @2230. On 9/4 the best fm I had for awhile WOR 98.7 N YC, WMVB 97.3 Millville NJ, WCAU 98.7 PA, WLYC 105.1 Williamsport PA, WEEP 107.9 Pittsburgh, WRFY 102.5 Reading PA, WEPM 97.5 Martinsburg WV, WBYO 107.5 PA, WXPN 88.9 PA, WEEEX 99.9 PA, WTRF 107.5 Wheeling WV, WSTV 103.5 Steubenville OH, and a maybe on WNDU 92.9 South Bend, with a shock to my ears, to hear the man say South Bend, and to top this one, I later hrd what I think was WETL 91.9, SB w/a TC. I just hope they QSL me. I now have 12 states, 10 varied. 73's.

DID YOU KNOW....THAT KAZIMIERZ PULASKI, BORN OF NOBILITY BUT EXILED FROM POLAND, DIED IN A BATTLE OF HIS PULASKI LEGION IN THE AMERICAN REVOLUTIONARY WAR? LIKE A NUMBER OF OTHER EUROPEANS WHO JOINED THE AMERICAN REVOLUTION, HIS LOVE OF LIBERTY FOR ALL MEN WAS STRONGER THAN HIS DESIRE FOR THE EASY LIFE HE MIGHT HAVE HAD AS A MEMBER OF THE NOBILITY, DESPITE HIS EXILE IN FRANCE.

Joseph Fela, Jr. 150 Robert Place . So. Plainfield, New Jersey 07080

Greetings. There has been virtually no DX for the past month. Only one addition has been made, which was WBZ 106.7 Mass. at 0600 on SM Sept. 5th. That leaves only WERS 88.9 to complete Boston. There are a few other things to report. 94.1 Philadelphia has finally been reactivated. New call is WYSP (probably would be better named if it were WNSP). They are a good music operation and run AN 6, off MMs. They get out very strongly, unfortunately. This past month has been notable with the big increase of AN operations. New ANers: WLPL 92.3, WRBS 95.1, WKTK 105.7 (ex. WBMD and now 50kw), WCAU 98.1 (besides being AN 6, they now also run to 0200 ELT MMs), WICH 97.7 and WMGM 103.7. On the plus side, WEVD 97.9 seems to have dropped AN going back to the 0300 s/off time. Recent NJ floods have apparently affected WCTC 98.3. They were off for a few days after the floods and have never fully recovered. Even at this close distance (about 6 miles), I have to null WHLI 98.3 to hear them. They have always had WHLI QRM at close distances to their XR, but it was never this bad before. 73.

Andy Bolin 709 Lincoln Avenue Charleston, Illinois 61920

Tr. on 9/7 at 1030 brought WJVL WI and low WDGC 88.3 IL. Signals faded for the remainder of the daylight hours, but started building again around 1830. All new, starting with WADM 92.7 IN, and WBGU 88.1 w/class. mx. 1900 WHME 92.5 Toledo. By 2130 it turned into a very intense opening with virtually all signals pinning the meter. 2200 WLEN Adrian MI o/local WTWC (40 miles away) and WPAG w/UR Ann Arbor over 40 mile WPGU. 2215 WIFF Auburn IN over 35 mile WWVR. 2230 WQRS 105.1 and WDET 101.9 both Detroit and completes Detroit for my log. 2300 WVIC 94.9 E. Lansing w/RR; WALM 104.9 Marshall MI, WBRB 102.7 Mt. Clemens, MI. After midnight 0200 WWFM @0450 w/nx and ID, 0400 WGRD 97.9 Grand Rapids w/RR. 0545 CKPC @0450 Brantford ON through the carrier of 4 mile WEIC and last 0830 WDHS 91.1 Goshen IN. 9/22 trop to TN, AL & MS. Lots of AL/TN stations that been heard before, so will stick to new loggings. 0200 WSWG Greenwood MS @0435 w/\$soul. KWAM 101.1 Memphis w/\$c&w. 0315 WYFY Columbia TN w/RR, 0450 WKPT 98.4 w/\$c&w, WEIO 98.5 Tupelo w/s/on. WHUB C&W Cookeville TN, WCPC @410 \$gospel Houston, MS, WDEF 92.3 Chattanooga 0607 WJOF 104.3 Athens, AL, WQUT Johnson City TN, WIZO Franklin TN. Got lucky on 10/2 for the first time in a year it seems like somebody overslept at my local WEIC 92.1 for about 40 minutes, so new loggings were 0600 WACI Freeport IL, 0615 WGHN Grand Haven MI, and 0630 WROI Rochester IN w/s/on. Oh yes, on 9/30 I logged in my third rotor box of the year, not to say I already burned out two motors (ouch). States 29, totals 576, but it seems that only a very few DXers count call letter changes, and I have, so my total drops from 576 to 560, it seems only fair.

Bob Hawkins 1515 Marlowe Avenue Cincinnati, Ohio 45224

Greetings. Here is some new local info before my report. On 9/6 WEMM 107.9 Huntington, WV took to the air with 50,000 (V&H) of gospel power, 24 hours a day. 9/20 WCIR 103.7 Beckley WV signed on w/MoR music and echo on their voice. And 10/1 WCXL 105.1 dropped good music (WWEZ put them out of business) and is now WUBE FM with country music. That's local news. Now for DX. This month has yielded 81 new loggings, by far the best yet. 9/7 WCUY 92.3 @2229 WCAR MI 92.3 @2300, WGHN MI 92.1 @2330. 9/8 WNUW WI 99.1 @0452, WNVA VA 106.3 @0517, WNRG VA 97.7 @0522, WEFM IL 99.5 @0936 over WSMJ, WBEZ IL 91.5 @0959, WMAQ IL 101.1 @1030, WEMM WV 107.9 @1100. 9/9 WROI IN 92.1 @1031 BRAND NEW.

Hawkins (Cont'd.) 9/12 WDET MI 101.9 @0415. 9/13 WIAA MI 88.3 @2202, WGCS IN 91.1 @2300, WAOV IN 96.7 @2359. Logging #500 sent off a whopper of a trop KNXR 97.5 MN @0005, WREK GA 91.1 @0030, WRAS GA 88.5 @0036, WKLS GA 96.1 @0047, KMAQ IA 95.3 @0122, KTOF IA 104.5 @0128, WISM WI 98.1 @0130, WRWC IL 103.1 @1100, WQOY OH 104.1 @1130, WBAY WI 101.1 @1200, WDUB OH 90.9 (125 miles & 10 watts) @2230, CJRT 91.1 ONT @2259, CHUM 104.5 ON @2305, CKDS 95.3 ON @2306. 9/15 WBUF NY (new state) @0016, WGR NY 96.9 @0022, WBPZ 92.1 PA @0039, WMDI 102.3 PA @0101 (power?? assumedly 3kw RWW), WYZZ PA 92.9 @0110, WENY NY 92.7 @0119, WMIV 95.1 NY @0130, CHYM 96.7 ON @0144, WHFM N Y 98.9 @0157, WMPT PA 99.3 @0200 (105 watts), WQWK 96.7 PA @0228, WLLL VA 98.3 @0235, WFZO 101.3 NY @0300, CKFM 99.9 @0300 end of super trop #1. 9/19 WFVC 91.5 IN @2300. Now super trop #2 9/22 WAID TN 104.5 @0000, KWAM TN 101.1 @0004, WSWG MS (new state) 99.1 @0016, WRSA AL (new state) 96.9 @0055, KMYO AR (new state) 95.7 @0200, WYCA 92.3 IN @0230, WHVT TN 92.1 @1011, WCMX 101.7 IN (new on air) @1032, WDEB 100.1 TN @1121. 9/27 WTAS IL 102.3 @2330. 9/29 WCIR WV 103.7 @0801. 9/30 and the trop just keep on comming!! WITF 89.5 Hershey PA @2330 (power ?? 50kw RWW), WETA DC 90.9 @2248, WKTL 90.7 OH @2257, WKCR 89.9 NYC @2335 my first NYC. 10/1 WFME NJ 94.7 @0030, WWOR NY 100.5 @0044, WAMU DC 88.5 @0057, WAER 88.3 NY @0100, WRPI Troy N Y 91.5 @0102 (power?? 10kw RWW), CHFI 98.1 ONT @0129, CKPC 92.1 @0130, WVBR NY @0131, CHSC ONT 105.7 @0232, WARC PA 90.3 33 watts! WVAM 100.1 PA @0253 3kw, WWFM 99.9 PA @0301, WMAJ 103.1 @0302, WUBE OH 105.1 WPHD 103.3 NY @0328, WKSS CT (new state) 95.7 @0332, WBEN 102.5 @0430, WBER NY @1129, WBNY NY 96.1 @1132 end of trop. 10/2 WGMZ 107.9 MI @0051, WHLS MI 107.1 @0100. 10/5 WSND IN 88.9 @1027, WNAS IN 88.1 @1029, WMEF IN 97.3 @1400 (who's this Bob, where, what power?? RWW). Question...I get a test tone on 88.5 which appears to be coming from eastern KY, but it never IDs, anybody figure it out? Also, Rog, what are WAKE and WMQB's hours? WAKE is now WLJE and is on till 0000 CDT, WMCB goes off daily at 2100 CDT. Well, that's it for this month. Sent my renewal in the other day for another year, so see ya all in next months report. All Times EST. 73!

Peter E. Hobday Box 1377 Wilson, CCT Potsdam, New York 13676

I have never reported any FMDX because I jump back and forth between home and college. I report all my totals from my DXing location in Canadaigua, NY. The college dorms buy CATV service, which does not qualify for DX records, and I use the service. However, 9/30 and 10/1 night Potsdam experienced such an opening to the Detroit area that I had to DX. I called up fellow WTFDA member Bob Soltis and we compared reception via telephone. He used his Dyna FM3 and rabbit ears; I used my Sansui 4000 and the CATV. All \$ stations were recvd in \$, most were noise free, and we got maximum signal strength indications on several stations (100 uV on my Sansui). I don't know what type of DX this was: Bob suggested auroral skip. There was absolutely no fade or flutter. (Pete, it was a classical form of Ducting in trop. You received almost the same stations I did, some 600 miles west of you RWW). Stations IDed were: 93.1 WDRQ, 96.3 WJR, 97.1 WWJ, 101.1 WRIF, 103.5 WMUZ, 106.7 WWWW and 107.5 WEPB all Detroit, 102.9 WNRZ Ann Arbor, 106.1 CJOY Guelph, Ont., 88.7 CJOM Windsor, 105.7 CHSC St. Catherines ON, 103.7 WEIV Ithaca NY, 102.5 WBEN Buffalo 106.5 WADV Buffalo and 98.9 WHFM, 103.3 WPHD 101.3 WEZO Rochester NY. A strong stereo educational station on 101.9 never gave an ID. Their program on October 1 was Welsh, Scottish, Irish and Newfoundland work songs and other music. (Pete, undoubtedly that was WDET Detroit 79kw RWW) Now I wish I could get such an opening at home! (Welcome to the column Pete, and also a big hello to Dr. Richard Wood. It is indeed a pleasure to receive contributions from new members, and I hope you will attempt to contribute often. RWW)

CENTRAL-TV-DX

Roger H. Brown
1617 Linden St.
E. Lansing, Mi. 48823

November 1971

Next Deadline: November 15

For TV-DX Enthusiasts in Wi, Il, In, Mi, Oh, Pa, and Eastern Canadian Provinces.

Wisconsin and Illinois are getting a bad deal! At least DX-wise! Notes from Bill Draeb and Dave Janowiak indicate (a) that DX in September dropped off completely, and (b) it was an atrocious period. However, comments from East of Lake Michigan ranged from "superb" to "best opening yet."

The difference between a good and bad month indeed was location. The opening occurred at month's end. A fall-type high...near stagnant and quite stable...sat over the NE New England states for a couple of days, while hurricane Ginger rammed North through North Carolina and Virginia. Apparently good inversions occurred from Mid-Michigan to New England...then over Pennsylvania and the East coast on September 30, and the first two days of October. As the massive low that had been Ginger pushed North into the high pressure area, a very narrow area of higher pressure bounded by low pressure formed what, on a weather map looks like the tail on a dog, towards the Southwest. For a brief period on October 1, a duct formed in that "tail", bringing good catches to several DXers.

Best catches were: Rosenberg (On) WKZT-23 (536 mi), Lewis (On) all the Huntsville Us (740), Egan (Que) WSPD-13 (535), Merrill (Oh) WNPI-18 (Norwood, NY, 480 on "loop" antenna!) and Brown (Mi) WNJT-52 (540) and state #40). I spent most of the best E. Lansing period with Ray Stilwell on the phone (2 miles West of me) and we watched all the Philly Us, etc. Through Frank Merrill, I understand Harold Cooper (Detroit area) also saw the NYC Us plus WCDC-19, Mass.

Anyway, it brightened up a dull month. By the way, the below reports include again some catch-ups from the missed September column.

Frank Merrill, 3632 N. Detroit Ave., Apt. 61, Toledo, Oh. 43612 (EDT) (EST in Mi.)

(Frank spent Sept 30 at his folks place...his old DXing QTH...in Milan, Mich.)

9-30 Tr 1830 WUTV-29 Buffalo (255)
1930 WBRE-28 Scranton (410)
1945 WUTR-20 Utica (450)
2059 CICA-19 Toronto (250)
2101 WPHL-17 Philadelphia (475)
2129 WPSX-3 Clearfield, Pa. (285)
(thru WKYC-3!)

all these on a cheap V/U ant pointed ENE.
Plenty of unids including ch 44, 21, 15, etc.
Now have something on all channels to 35
at Michigan QTH.

10-1 (from Toledo location, w/bunny ears
and "loop")
Tr 0106 WGTU-29 Traverse City (240)
0628 WTRF-7 Wheeling (190)
0655 WROC-8 Rochester, NY (325)
0726 WBRE-28 Scranton (405)
0812 WKEF-22 Dayton (140)
0826 WLEX-18 Lexington, Ky (260)
WKMR-38 Morehead (245), WKLE-46
Lexington (260), WKON-52 Owenton
(230) WCVN-54 Covington (190) all
new.
0830 WKYT-27 Lexington, WBLG-62
Lexington. fading fast. (ducting
RB)
2200 WNPI-18 Norwood, NY (480)

Also in during the period, Erie Us, Buffalo Vs, CFTO-9, CFPL-10, etc. Rabbit ears seem to be pretty good for getting tropo through locals! (No lie Frank. Some excellent catches, for a persistent DXer. RB)

Joel Rosenberg, 47 Pannahill Rd., Downsview 475, Ont. (EDT)

9-15 Tr 1020 WETA-26 Washington 3345N (351)	10-1 Tr 0030 WHP-21 Harrisburg (272)
1030 WICZ-40 Binghamton, WBJA-34 Binghamton 3355R	0740 WKMR-38 Morehead (441)
1100 WBRE-28 Scranton 2145R	0749 WKZT-23 Elizabethtown (536)
2100 WENY-36 Elmira 3355R	0750 WOSU-34 Columbus, Oh (320)
9-16 Tr 0750 WICZ-40 2245R, WBRE-28 2045R	0757 WKLE-46 Lexington (477)
WDAU-22 2245R	0758 WKON-52 Owenton, Ky (459)
2300 Tr to Detroit.	and then I left for school!
9-26 Au 2000 to ch 5, no IDs.	1653 WSBK-38 Boston (430)
9-29 Tr conditions "up" with many stations	1715 WSMW-27 Worchester, Ma (400)
including WUHQ-41 Battle Creek and	1729 WVTA-41 Winsor, Vt. (348)
WNPE-16 Watertown...from 2000 to 2300	1803 WKYT-27 Lexington (477)
9-30 Tr 0730 more of the above	1929 WVER-28 Rutland, Vt. (315)
1600 almost all Us under 250 miles	2130 WKEF-22 Dayton, Oh (373)
VAFI 5555!	2315 WANE-15 Ft. Wayne, In (343)
1630 WNEP-16 Scranton, WETK-33	2320 WKJG-33 Ft. Wayne, In (343)
Burlington, WVIA-44 Scranton.	2353 WLTE-30 Toledo (248) finally!
1700 WNYC-31 New York City (348)	2359 WLIO-35 Lima, Oh.
1715 WNJT-52 Trenton, NJ (342)	10-2 Tr 0250 WPTA-21 Ft. Wayne (343)
1723 WSYE-18 Elmira, Unid translators	0300 WANE-15 Ft. Wayne
1729 WNPI-18 Norwood (234)	0655 WJBK-2, WTOL-11, WSPD-13, WOOD-8, WNBF-12.
1750 WSKG-46 Binghamton, WJAN-17	0715 s/on of Lima, Ft. Wayne, Toledo etc.
Canton.	
1823 WQEX-16 Pittsburg (230)	
1858 WTAP-15 Parkersburg (324) (good	During the period, many unids were seen from
catch! RB)	Pa, NYC, Vt, Ma, NH, Ky, In and Oh. Best
2010 WLVT-39 Allentown, Pa. (297)	opening ever by tropo. VHF too packed.
2259 WKMR-38 Morehead, Ky (441)	Hoped everyone else did as well.
2315 WMPB-67 Baltimore (342)	
2345 WBFF-45 Baltimore (342)	10-9 and 10 a little unid Es in pm.
2358 WHAG-25 Hagerstown (297)	

Mark Lewis, 224 Honiton St., Downsview 475, On (EDT)

9-30 Tr 1749 WBFF-45 Baltimore 3355N (345)	10-1 Tr 1029 WCET-48 Cincinnati (415)
1800 WNJU-47 Newark (NY) 2435N (345)	1021 WGSF-31 Newark, Oh
1801 WXTV-41 Paterson (NY) 2445N (345)	1026 WHNT-19 Huntsville (740)
1802 WNYC-31 NY City 3455R (345)	(w/ CICA-19 tx off for a few minutes!!!!)
1805 WNJT-52 Trenton, NJ 3355N (350)	1030 WLEX-18 Lexington (475)
2300 WKMR-38 Morehead 4555N	1031 WMSL-48 Huntsville (740)
2304 WKBG-56 Cambridge, Ma (435)	1032 WKPC-15 Louisville (505)
2317 WMPB-67 Baltimore (345)	1042 WKMJ-68 Louisville (505)
10-1 Tr 0830 WBLG-62 Lexington (475)	1801 WVTA-41 Winsor, Vt
0732 WKZT-23 Elizabethtown (545)	1808 WVER-28 Rutland, Vt
0754 WMUB-14 Oxford, Oh 3555N	2100 WSBK-38 Boston (435)
0830 WKSO-29 Somerset, Ky, WKON-52	WLTE-30 Toledo (250)
Owenton, WKGB-53 Bowling Green	2300 WXIX-19 Cincinnati (tent.)
(600) WKLE-46 Lexington (475)	
0954 WCVN-54 Covington (415)	
1000 WAAY-31 Huntsville (740!)	

Added more than 25 new stations including (at latest report) W73AC Pa. of WNEP-16 and W72## of WNED-17 Buffalo, both 100 watters.

Dave Egan, 12a Andrew, Valleyfield, Que. (EDT)

10-1 Tr 2030 CFTO-9 Toronto (300)
2045 WBEN-4 Buffalo (265)
2330 WTOL-11 Toledo (535)
10-2 Tr 0058 WSPD-13 Toledo (535)
0107 WSYR-3 Syracuse w/ wedge
0111 WKBW-7 Buffalo (265)
0122 CBLT-6 Toronto (300)
0124 Unid-6 South w/ EG Robinson
flick (WPVI-6 ?? RB)
0219 CKLW-9 Windsor, On (510)
0230 CKVR-3 Barrie, On (278)

10-2 Tr 0222 WXYZ-7 Detroit (515)
0300 CHCH-11 Hamilton, On (350)
0315 WHDH-5 Boston (190), then at
0404 WCVB-5 TP (they've been testing
with that for a few weeks anyway
Dave, though I don't think WHDH-5
has ceased operation. RB)
0403 Unid-7 white square on 3/4 CB
pattern. (WTRF? RB)
0400 Unid-8 w/ nx. (That's a good
one. Possible WJW-8 Dave, though
I'm not up at that time usually! RB)

Had to quit at 0430...didn't wake up until 1100, too many locals on by then. Saw unid-3 by Es on 10-8, south. Tent. WSAV-3. (Dave your unid-8 was not WOOD...I'm sure of that. WJW runs movies til wee hours. Think WISH-8 is off too. RB)

Roger Gravelle, 35 Aldborough Rd., St. Thomas, On (EDT)

(NOTE: Rog's report arrived too late for last month's column...however, his VUD for July didn't arrive at all so I guess we're sort of even.) (Nor his VUD for Aug and Sept)

8-28 Tr 2300 WSTV-9 Stuebenville (175)
WBNS-10 Columbus, Oh (250)
WKBN-27, WFMJ-21 Y'town
WKJG-33 Ft. Wayne (150-225)
plus all Pittsburg Vs and Us

Had a lousy August here.

9-7 Tr 2300 CKCO-1-2 Wiarnton, On. (150)

9-8 Tr 0745 WICD-15 Champaign (325)
WUHQ-41 Battle Creek
also WPBN-7 (370), WAND-17 (390)
WUCM-19 (150), WPTA-21 (300)
WSBT-22 (340), WKNX-25 (150)

9-9 Tr 0930 WCIU-26 Chicago (370)
WSJV-28 So Bend. (300) many
closer.

Have missed out this year...too much other business going on. Please put a little extra postage on my Digests!!!

Don Ruland, 4448 68th Pl, Kenosha, Wi 53140 (CDT)

9-13 Tr 0530 WLWC-4 Columbus (320)
0535 KFVS-12 Cape Girardeau, Mo (370)
0557 KMOX-4 St. Louis (300)
2000 WFYI-20 Indianapolis (220)

9-14 Tr 0445 WCPO-9 Cincinnati (300)
0455 WJW-8 Cleveland (330)
0503 WKBW-7 Buffalo (460)
0505 WKYC-3 Cleveland (330)
0527 WTRF-7 Wheeling (420)
0530 WWUP-10 St St Marie (330)
0535 WICU-12 Erie, Pa. (400)
KFVS-12 Cape Girardeau (370)
0626 WMT-2 Cedar Rapids (200)

9-21 MS 0618 WOAI-4 San Antonio (1090)

9-22 Tr 0525 WJW-8 Cleveland (330)
0530 WLWD-2 Dayton (280)
WSIX-8 Nashville, Tn (450)

9-24 MS 0615 WKY-4 Okla City (720)
9-28 Tr 0557 WIBW-13 Topeka (470)
0610 KTVH-12 Hutchinson, KN (600)
0625 KRNT-8 Des Moines (310)
0653 KTVO-3 Ottumwa (260)
0727 WOI-5 Ames, Ia (300) o/WMQ

9-29 Tr 1630 WJET-24 Erie (400)
1700 WSEE-35 Erie (400)
1930 WGTU-29 Traverse City (190)

9-30 Tr WJW-8, WKYC-3 Cleveland (330)
10-2 Tr 0600 CKLW-9 Windsor (250)

Ruland (cont.)

10-4 MS 0605, 06, 09, 18, 20 WKY-4!
0620 WOAI-4 San Antonio
10-5 Tr 0530 WCPO-9 Cincy (300)
0550 WKRC-12 Cincy (300)

10-5 MS 0615 WKY-4 Okla City (720)
10-6 MS 0620 WOAI-4 San Antonio (also 0624)
10-7 MS 0620 WOAI-4 San Antonio (1090)

Log now at 145 (94 and 51.) (Don, looks like you've just about purchased WKY and WOAI on MS!)

Gary Olson, 1203 Kenton, Deerfield, Il. 60015 (CDT)

(NOTE: Again, many apologies to Gary and Dave J. for not including their reports last time.)

7-11 Tr 0945 WTVP-47 Peoria, Il
7-13 Tr 0725 WNEM-5 Bay City over WFRV w/
WMAQ off the air!
7-21 GW 1800 WUHQ-41 Battle Creek
7-30 Es 1930 CKOS-3 Yorkton, Sask, KID-3
Idaho Falls, KRTV-3 Great Falls,
and CKCK-2 on VP ant over WBBM.

8-1 Huge event. Got my dish up!!!
8-5 Tr 2055 WURD-40 Indianapolis
8-6 Tr 2010 WKYT-27 Lexington, Ky
2020 WKBD-56 Detroit, 2100 WKBD-50,
8-8 Tr a.m. KWWL-7, WJRT-12

8-14 Es no ids at 2130
8-15 Es 2020 tent. WEDU-3 Tampa
Tr 2050 W78?? CBS, unid.
2200 KDNL-30 St. Louis (310)
2205 All Detroit Us (250)
8-16 Tr 1830 WVIZ-25 Cleveland (340)
1900 Unid-29 probably WUTV
1930 WUAB-43 Lorain, Oh (340)
2006 WKBF-61 Cleveland (340)
2030 W78AJ Sheboygan (WBAY, 115)
2100 W72 AN Gary, In (50)
WCET-48 Cincinnati (270)
2115 WOSU-34 Columbus (320)
2130 WGTE-30 Toledo (300)
2131 WWUP-10 Ste St Marie (340)
2219 KMTC-27 Springfield, Mo. (450)

8-16 Tr 2214 WXIX-19 Cincinnati
2240 WFYI-20 Indianapolis
2255 WCMU-14 Mt. Pleasant
2322 WUCM-19 University Center
2230 WXOW-19 LaCrosse (200)
8-17 Tr 0545 WIBW-13 Topeka (580)
WICU-12 Erie (410) plus unid 12
w/ IHTP.
0600 strong decline in signals.
0630 WSEE-35 Erie (410).
1815 Detroit, Cleveland Us.
1830 WTIU-30 Bloomington.

The dish is up about 45 aat. Have a roof mounted 24 foot tower with 6 feet of mast above that to the center of the dish. A 7-13 yagi is below that at a 90 degree angle. I just wonder if the dish can take a nasty Chicago area winter. (I wonder about mine too Gary. By the way, I...RB ...talked with Gary during the opening here on 10-1, and he was seeing very little. A later look at a wx map showed the high pressure "area" was just East of the lake. We'll get together on one yet Gary.)

Dave Janowiak, 3661 So 46th, Greenfield, Wi. 53220 (CDT)

8-10 MS 0455 WCBS-2 NYC (750)
0456 WMAR-2 Baltimore (650)
0533 WTVN-6 Columbus, Oh (325)
0559, 0600 WTVR-6 Richmond, Va. (680)
0612 WKY-4 Okla City (780)
8-11 MS 0459 WBZ-4 Boston, Ma (900)
0543 WWL-4 New Orleans (930)
0628 WKY-4 Okla City (780)
8-12 MS 0437 WMAR-2 Baltimore (650)
0516 WFBC-4 Greenville, SC (630)
8-16 Tr 1930 condx good to 350 miles...
Toledo, Cleveland, etc.

8-16 cont. 2000 WOSU-34 Columbus, Oh (325)
8-16 Tr 2030 tent. KMEG-14 over WCMU-14
8-17 Tr like 8-16 but weaker.
2200 WTIU-30 Bloomington, In. (290)
8-20 MS 0648 WTVY-4 Dothan, Al (850)
8-23 MS 0635 WWL-4 New Orleans (930)
Tr 1800 WEAU-13 Eau Claire (220)
WSAU-7 Wausau, Wi (200)
WAOW-9 Wausau (200)
1900 sudden big improvement in DX
looking south.

Janowiak cont.

8-23 Tr 2000 WKMR-38 Morehead, Ky'
WKLE-46 Lexington
WLKY-32 Louisville
 2030 WBLG-62 Lexington
 2040 WDRB-40 Louisville
 2100 WKMA-35 Madisonville
 2125 WKON-52 Owenton
 2130 WCET-48 Cincinnati
WKYT-27 Lexington
WKSO-29 Somerset
WKPC-15 Louisville

all 350-450 miles. Many stations within 250 snow free.

8-26 Tr 2000 WQAD-8 Moline (180)
WJJY-14 Jacksonville (280)
 8-29 Tr 2000-2300 Us up to 300 good plus tent KMEG-14 Sioux City at 2200.
 8-30 Tr 0050 WJRT-12 Flint (220) and tent.
WTOM-4 Cheboygan (220)
 9-1 Tr 1930 WJJY-14 Jacksonville (280)
 2030 WXON-62 Detroit (250) also
WTVS-56 Detroit.
 9-5 Tr WTOL-11 and WHIO-7 in am.
 9-7 Tr 0230 WTWO-2 Terre Haute (270)
WJBK-2 Detroit (250)
WQAD-8 Moline (180)
WAOW-9 Wausau (200)
WSAU-7 Wausau (200)
WKBD-50 (250) WDHO-24 (225)
 MS 0317 WUSN-2 Charleston, SC (840)

9-7 Tr 1900 300 mile UHF to Indiana, Ohio
 2000 WURD-40 Indianapolis 3345R (260)
WLBC-49 Muncie 4555R
 Unid-22 S, SE, 20KC offset from
WSBT. (Probably WKEF-22)
 2020 WBGU-70 Bowling Green (225)
 2100 Toledo Us, Cleveland Us
 9-8 Tr 0620 WSEE-35 Erie 3335R (430)
 others S, SW to 350 miles.
 1800 plus, very strong tr to N, NE,
 most Michigan Vs and Us snow free.
 9-9 Tr 0640 WHEC-10 Rochester 3345
WROC-8 Rochester 3341
 9-28 Tr 0630 Cleveland Us 3334R (350)
 9-29 Tr 1900 W75AJ Sheboygan (60)
WCAE-50 St. John (110)
 9-30 MS 0445 WCBS-2 NY City (750) on a few
 bursts.
 10-5 Tr 1800 plus Us to 350 miles, all
 directions

Notes: either the Perseids was very bad or the Aquarids very good but latter produced better, more frequent bursts. Perseids peaked possibly on the 13th and 14th, during the convention. September an atrocious period...not much time to DX in either Sept or Aug.

Bill Draeb, Ellis St. RR #2, Kewaunee, Wi. 54216 (CDT)

9-13 Tr 0553 WHO-13; 0608 KRNT-8 Des Moines
 9-14 Tr 0540-0620 WTRF-7 Wheeling, WJW-8
 Cleveland, WSTV-9 Stuebenville, WIIC-11
 Pittsburg, CHCH-11 Hamilton, KFVS-12
 Cape Girardeau, WICU-12 Erie, WKRC-12
 Cincy, WHIZ-18 Zanesville, WANE-15
 Ft. Wayne, WPTA-21, WKJG-33 Ft. Wayne,
WIMA-35 plus unids.
 1230 WKEF-22, WKYT-27 Lexington
 and unids on 19 and 26.
 9-29 Tr WANE-15, WPTA-21, WKJG-33 Ft. Wayne
WCAE-50, WKBD-50 all at 1945.
 9-30 Tr 0555 WKBW-7 Buffalo, WJW-8,
WBNS-10, WISH-8 plus unids.
 10-2 Tr 0635 CHCH-11, tent. CFTO-9
WANE-15, WKJG-33, WKNX-25.
 10-6 MS 0605 CBOT-4 Ottawa
 0615 CJCB-4 Sydney, NS.
 10-10 MS 0600 WBEN-4 Buffalo
 0620 WITI-6 Milwaukee, at 100 mi.

DX took a nosedive after 9-14. Guess I'll have to turn my attention to Aurora and MS now that tropo has ended.

Roger H. Brawn, 1617 Linden, E. Lansing, Mi 48823 (EST)

8-2 Tr 2025 WCAE-50 St John 3331N (175)
 8-5 MS 0508 WDBO-6 Orlando, Fl
 8-8 Tr 0200 WQAD-8 Moline 4443R (320)
 8-8 Tr 2045 WPGH-53 Pittsburg (280) last
 time seen.
 2130-WKPT-19 Kingsport (420) and
 tent. WSVN-47.

Roger Brown cont.

- 8-9 MS 0500-0600 several unid TPs on 6
 8-10 MS 0500-0530 WDBO-6 several times
 8-11 MS WDBO-6 many times plus tent.
 WATE-6 w/ voice over NAB slide at
 0530.
 Es 2330 KPRC-2 Houston plus unids to 4
 8-12 MS WDBO-6 many times from 0445 to 0600.
 0527 WECT-6 Wilmington, NC also tent.
 WPVI-6 and WTEV-6.
 8-16, 17 missed big tropo opening.
 8-23 MS 0515 tent. WTEV-6.
 0520 WECT-6 Wilmington.
 8-29 Tr 2230 KMEG-14 Sioux City (600)
 4443N by ducting.
 8-30 Tr 0535 WJAC-6 Johnstown, Pa 2434N (350)
 8-31 Tr 2205 WDAU-22 Scranton 2223R (470)
 9-7 Tr many Us to 450 miles, best WDXR-29
 and KDNL-30.
 9-8 Tr 0030 first time ever, CCI on ch 6,
 3/4 miles away! Indianapolis Vs]
 all snowfree.
 0140 KPLR-11 St Louis 2225N (410)
 0730 WEEQ-35 LaSalle, Il 4432N (250)
 9-9 Tr 2235 WICZ-40 Binghamton (420) plus
 signs of Us to 500 miles.
 9-10 Tr 0530 WNEP-16, WBRE-28 Scranton (470)
 WDAU-22 Scranton (much WSBT CCI),
 WSYE-18 Elmira, WFBG-10 Altoona,
 WJAC-6 (300 plus)
 0740 WHNB-30 New Britain, Ct. 2435N (61
 (610)
- 9-14 Tr 0520 KFVS-12 Cape Girardeau 4454R
 (470)
 0550 KMOX-4 St Louis 4554N (410)
 0631 KHQA-7 Hannible 4442N (360)
 plus WISC-3, WCIA-3, WHBF-4, KDNL-30
 2345 WDBJ-7 Roanoke 4432N (460)
 thanks to Ray Stilwell.
 9-21 Tr 1925 WKPT-19 Kingsport (420)
 2020 WSVN-47 Norton, Va 3335N (400)
 plus unids SE.
 9-29 Tr 2150 CICA-19 Toronto 3431N (290)
 9-30 Tr 0520 WJAC-6 Jhontown (350)
 0528 WBRE-28 Scranton (470)
 0540 WNEP-16 Scranton (470)
 0555 WICZ-40 Binghamton (410)
 0830 WSKG-46 Binghamton, WBJA-34,
 WVIA-44
 0845 WTAF-29 Philadelphia (525)
 0849 WLYH-15 Lanncaster (420)
 2030 at tune in, UHF going bananas
 2032 WKBS-48 Philly 4445N (525)
 2055 WTAF-29 4445R thru WGTU, WUTV
 2058 WXXI-21 Rochester (360)
 2100 WLVT-39 Allentown 3335N (490)
 2102 WNJT-52 Trenton, NJ 3335N (540)
 2120 WWVU-24 Morgantown 4432N (330)
 2130 WBFF-45 Baltimore 4435N (440)
 2200 WMUL-33 Huntington 2232N (330)
 2230 WPHL-17 Philly 2442N (525) w/
 much WJAN-17 CCI
 2240 WHP-21 Harrisburg 2222N (430)
 2300 WUTR-20 Utica 2225N (450)
 10-1 Tr 0500 WPVI-6 Philly (525)
 10-2 Tr 2030 Binghamton, Elmira Us perved
 2050 WHNB-30 New Britain (610)
 10-4 Tr 0730 many Ky ETV incl WCVN-54

Had a fun summer, but need more UHF tower
 and a solution to Hi-Band antenna dilemma.
 Now have 131 Us, 316 total. Never make
 "another" count of your station total.

I did and dropped my total by 9! That's
 either a Ha-Ha Herman or a Bob Cooper ouch special. No sign here of NYC or DC Us...in fact
 DC was "out" of the affected area according to wx maps...during big tropo opening.
 This will have to conclude the column. I will include next month a report frmm Bob Zoller
 of summer DX from a Wisconsin QTH (where he visited...away from his Detroit area locals)
 and a late report just received from Rog Gravelle of 9-30, 10-1 and 10-2 DX. Some nice
 catches too.

Program notes: Michigan State University will conclude its unsatisfactory share time
 relationship with WILX-10, and go to channel 23 next summer as WKAR-23, That's a very
 old call...appearing in the 50's as WKAR-60. My CMA-U preamp is going to fold up and die
 with 1.2 megawatts looking down its throat from a mile away. Guess from R. Brown:
 several well-known UHF stations in the midwest won't make it through another 2 years.
 That includes a very powerful SW Michigan station on channel 41. That's just a GUESS
 mind you. Wouldn't that be a Ha-Ha Herman. 73s, best DX to everyone.

25
Conducted by
David T. Janowiak

TECHNI/CORNER
November, 1971

3661 South 46 Street
Greenfield, Wisc., 53220

TV AND FM RECEIVING ANTENNAS:
FANTASIES, FADS, AND FACTS
Part I

INTRODUCTION

Of all the links in the equipment chain used by a typical DXer, the antenna is probably the most important. Unfortunately, so much hoopla and misconceptions exist in antenna ads that the average DXer cannot separate the facts from the fiction.

In this series I shall try to define what performance you can expect from various antenna "types". Some specific antennas will be discussed, although most of these fit into the "type" category. Hopefully, these facts will replace much of the fiction or half-truths that have crept into our minds due to the fads that occur primarily because antenna manufacturers insist on restyling and reshaping basic antenna types (for greater profit, of course).

WHAT'S YOUR ATTITUDE ABOUT ANTENNAS?

In spite of what's been said over and over again in the VUD about the importance of DX-worthy equipment, most advice doesn't appear to change many DXer's attitudes. This was mentioned recently by Bob Cooper, and I must agree totally. However, as new members appear every month, their questions are quite similar. Most frequently asked is, "What antenna do you recommend?" Hopefully, this new blood -- with the instructions given often in the VUD -- will form better attitudes about DXing equipment than many old timers have. Repetition is, therefore, not a waste of time; you old timers will just have to hack some of this for the sake of new blood.

The antenna is important -- damned important. Since we're heading into an off-season DX period (offseason for the easy forms of DX), now is the time to evaluate your antenna system and consider improvements for next year.

If you are one of those fortunate DXers who (1) lives in a high, choice location, (2) has a minimum of locals, and/or (3) has gobs of free time to DX, the antenna choice is just as important as the DXer handicapped by (A) low spot, (B) locals, and/or (C) little DX time.

Of course a DXer aided by (1), (2), and/or (3) may boast of a log total greater than that of a DXer with good equipment but handicapped by (A), (B), and/or (C). Here is where your attitude can play a cruel trick: the handicapped DXer may know he is hurting and must arm himself with special equipment just to compete (witness the good totals of many DXer who live under transmitters or just can't camp next to their receivers as many DXers do); the cat on the hill may say phooey, I can get this and that station with equipment or techniques I now use so why should I change? That's like paying \$2 for a steak that sells for \$1.50 across the street just because your salary is above the national average.

In other words -- if I may editorialize a bit -- some DXers are pathetically below their potentials for the time they devote only because they refuse to take advantage of a coincidence (high location, much free time, etc.) and convert this into an edge by arming themselves with better equipment and a self-education program. If you want (and deserve) the title of DX-pert, it should be based on constantly striving to achieve optimum results (within limits of your time and dollars) in spite of handicaps you have no control over. Not surprisingly, DX totals do not necessarily indicate ones DX-pertise.

If you realize the importance of correct antennas for your DX location, about the only roadblock is the cost. That is a real thing, I'll admit. But it bugs me to hear of a DXer who lays out over \$200 for a "professional" antenna job and get only an all-channel maze of junk on the chimney, when for the same money or less he can have a truly DX "system". I also wonder how anyone can lay out half a grand for a FM receiver, then with "beer money" purchase

a drugstore antenna and T-line.

For those with limited funds, you can begin to assemble a DX system of antennas and proceed as your pocketbook allows. Better to have a truly excellent UHF system, for example, and modest VHF system than an expensive all-channel "coat-hanger" that yields modest results on all channels. Or, with a little effort, you can educate yourself on antenna theory and build your own. Cost will be minimal, even less if you can scrounge up scrap elements by snooping around.

WHAT FUTURE PARTS WILL CONTAIN

Antennas can only be evaluated by comparing electrical and mechanical characteristics. Accepted terms define all electrical characteristics. In part II, each of these important characteristics will be defined in a language that I hope you can all understand. It really isn't all that difficult, but unless you have some idea what gain, beamwidth, etc. mean, subsequent parts will be less helpful.

Also, the universally accepted db's will be converted into numbers you can understand. Consequently, you needn't give up just because you can't hack the dbs.

In a later series, I will detail the costs for buying equipment and assembling DX antenna systems using currently available antennas. You may be surprised at the costs compared to a "professional" all-channel snow job.

MISSING TECHNI/CORNERS

Because of the VUD's size and possibility of going over a specific postage weight, Techni/Corners did not appear recently. My apologies to those expecting this column, but this is a staff decision (FSD's and mine in these specific cases) based solely on economics and work load at HQ. We always reserve this right, and we trust that others will abide by it if other columns are delayed for similar reasons in the future.

73's

Dave

STATUS REPORT ON PUBLICATIONS:

FM STATION ATLAS: SECOND PRINTING SOLD OUT; REVISED AND ENLARGED EDITION TO BE PUBLISHED IN JANUARY AT \$2.95.

TV STATION ATLAS: NO RECENT PROGRESS OR PROJECTED PUBLICATION DATE BEFORE '72.

FM STATION LIST: UPDATING IN PROGRESS; PROJECTED PUBLICATION DATE IN LATE NOV. ADVANCE ORDERS BEING ACCEPTED NOW AT SPECIAL LIMITED-TIME PRICE OF \$2.50 BEFORE 31 NOVEMBER. THOSE MEMBERS WHO'VE SENT \$3 WILL RECEIVE A REFUND.

TV STATION LIST: AVAILABLE NOW FOR \$2.00; WE HAVE DOUBLED THE PRINTING QUANTITY OF THE FIRST EDITION AS WELL.

WTFDA WAS FOUNDED (OR RATHER RENAMED AND REVAMPED) IN LATE 1967. (IT WAS FORMERLY AN ALL-BAND RADIO DX CLUB WMRC: WORLDWIDE MONITORS RADIO CLUB). THE CHANGE TO A TV-FM FORMAT WAS ENCOURAGED BY THE LACK OF A CLUB FOR TV-FM ENTHUSIASTS AS BROUGHT OUT AT THE 1967 ANARC CONVENTION IN CHICAGO. VHF RADIO WAS ADDED IN THE FIRST YEAR OF NEW MANAGEMENT.

SHORTLY AFTER THE CHANGE IN FORMAT & NAME, CLUB HQ WAS MOVED TO MILWAUKEE WITH FERDINAND S. DOMBROWSKI AS THE ONLY PROPRIETOR: PUBLISHER, SECRETARY, TREASURER, CHIEF AND ONLY EXECUTIVE. ABOUT A YEAR LATER AS THE CLUB GREW STEADILY, ASSISTANCE WAS RECEIVED FROM BILL HEUSMANN AND MORRIE GOLDMAN WHO CAME UP BY BUS FROM CHICAGO AT THEIR OWN EXPENSE TO HELP WITH PUBLISHING EVERY TWO TO THREE MONTHS, UNTIL GARY OLSON MOVED TO MILW FOR 18 MONTHS TO EARLY '70.

Statistics

Glenn Hauser, editor
PSC Box 42309
Kelly AFB TX 78241
November 1971

90 MHZ FMDX RECORDS

MHz	Pr	Call	Location	Miles	DXer, Location	Comments
90.0	Es	XENV-	Monterrey NL	750	Glenn Hauser, Enid OK	
90.1	Es	KPFT	Houston TX	1380	Joe Fela, South Plainfield NJ	
	Tr	KSJR	Collegeville MN	725	Carlton Howington, Uniontown OH	
	MS	KSJR	Collegeville MN	990	Larry Vogt, Springfield VA	
90.3	Au	WMBI-	Chicago IL	545	Al Kopec, Himrod NY	
	Es	KSYM-	San Antonio TX	1235	Carlton Howington, Uniontown OH	Please do not send lists of all FMs in your log-- just the furthest by each propagation on each channel. Tnx.
	Tr	WHLA	Holman WI	800	Larry Vogt, Springfield VA	
MS	WHLA	Holman WI	800	Larry Vogt, Springfield VA		
90.5	Au	WMKY-	Morehead KY	335	Larry Vogt, Springfield VA	
	Es	KXCV	Maryville MO	1365	Dennis Smith, Wasco CA	
	Tr	KXCV	Maryville MO	635	Fred McCormack, Des Lacs ND	
90.7	Au	KXCV	Maryville MO	935	Larry Vogt, Springfield VA	
	Es	WFUV	New York NY	1315	Robert Cooper, Oklahoma City OK	
	Tr	WHAD	Delafield WI	740	Fred McCormack, Des Lacs ND	
90.9	MS	WSMC-	Collegedale TN	880	Glenn Hauser, San Antonio TX	
	Es	KCSU-	Fort Collins CO	1225	Carlton Howington, Uniontown OH	
	Tr	KCMW-	Warrensburg MO	665	Carlton Howington, Uniontown OH	
	MS	KCMW-	Warrensburg MO	885	Larry Vogt, Springfield VA	
	Au	KCMW-	Warrensburg MO	420	John Ebeling, Bloomington MN	

Contributors of 90 MHz candidates are: Bolin, Cooper, Dorner, Ebeling, Elving, Fela, Hauser, Hayes, Hobday, Howington, Kopec, McCormack, Merrill, Morgan, Nordquist, Pizzi, Remington, Smith, Vogt. Thank you! Three others have been lost; why? Come on, FMDXers!

FM SCOREBOARD

DXer, Location	Stns	88-92	Es	States	Prov	Lands	YB	As of:
Bruce Elving, Duluth MN	1000			39+DC	3	2	48	6 Sep
Carlton Howington, Uniontown OH	800	127	94	33+DC	3	5	67	11 Sep
Robert Cooper, Oklahoma City OK	697			43+DC	4	5		30 Jul
Frank Merrill, Milan MI	649						65	8 Aug
*John Ebeling, Bloomington MN	572			37	4	3		23 May
Andy Bolin, Charleston IL	528	74	22	28	2	2	70	29 Aug
*Robert Seybold, Dunkirk NY	445			35	2	2		9 May
Al Kopec, Himrod NY	426	50	35	31+DC	2	3	57	1 Oct
Larry Vogt, Springfield VA	393	98	93	35+DC	2	4	68	7 Oct
Joe Fela, Newark & S Plainfield NJ	364			32+DC	1	2		12 Jul
Waldo Bishop, Tallahassee FL	338	45	80	30+DC	3	3	69	20 Aug
Fred Nordquist, N Syracuse NY	330	59	38	28+DC	2	3	69	4 Oct
Fred McCormack, Des Lacs ND	273	21	132	34+DC	3	2	65	31 Aug
Shelby Remington, Hamden CT	260	37	15	23+DC	2	2	70	1 Sep
Frank Merrill, Toledo OH	258						71	6 Oct
Dennis Smith, Wasco CA	186	17	40	9	0	2	52	11 Sep
Peter Hobday, Canandaigua NY	184	29	10	9	2	2	68	11 Sep
Glenn Hauser, San Antonio TX	176	37	65	28	1	3	71	13 Oct
*John Parillo, Girard OH	170			14+DC	1	2		1 May
Mike Dorner Jr, Metairie LA	150			15		2		19 Sep
Gil Morgan, Garden Grove CA	105	23	3	6	0	2	69	9 Aug
Jim Hayes, Wilkes-Barre PA	90	4	17	15+DC	1	2		8 Sep
Pat Dyer, San Antonio TX	90	10	11	12	0	2	70	13 Oct
Paul Luchter, Oceanside LINY	85	16	0	7+DC	0	1	68	8 Aug
Frank Wheeler, Erie PA	79	2	0	4	1	2	64	26 Aug
Dennis Smith, Santa Barbara CA	74	8	0	1	0	2	51	11 Sep
Les Prus, Manhattan KS	67	11	6	12+DC	0	1	70	7 Sep
Bill Migley, Lancaster OH	58	9	0	6	1	2	68	31 Aug
Pat Dyer, Gunbarrel Hill CO	38	8	16	10	1	2	71	7 Sep

*Tom Yingling, Baltimore MD 37 V 8 0 1 10 Jun

Important Notice: To reduce duplication and save valuable VUD space, the FM and TV scoreboards will alternate beginning next month with TV. Foreseen deadlines for TV totals are 12 Nov, 12 Jan, 13 Mar, 12 May, etc. For FM: 13 Dec, 11 Feb, 12 Apr, etc. Bonus: the asterisks will now give you an extra month's warning to update totals.

TV SCOREBOARD

<u>DXer, Location</u>	<u>Stns</u>	<u>UHF</u>	<u>Es</u>	<u>States</u>	<u>Prov</u>	<u>Lands</u>	<u>YB</u>	<u>As of:</u>
*Robert Seybold, Dunkirk NY	496			49+DC	8	6		9 May
Robert Cooper, Oklahoma City OK	376	132		40		8	69	8 Oct
Glen Neal, Sayre OK	329	56	165			3		8 Oct
Roger Brown, East Lansing MI	307	117		39	5	4		30 Aug
Gary Olson, Deerfield area IL	303	92		38+DC	7	5		8 Sep
Bill Heusmann, Steger IL	259	79	79	37	6	5	64	10 Oct
Morrie Godlman, Chicago IL	247					4	64	28 Aug
Fred McCormack, Des Lacs ND	242	29	140	39	6	3	64	31 Aug
Frank Wheeler, Erie PA	232	36	105	32+DC	9	3	55	26 Aug
Ron Le Blanc, Marrero LA	193	37	55	30	2	6	67	21 Sep
Les Prus, Manhattan KS	176	10	84	34+DC	5	3	69	7 Sep
Jerry Pulice, Staten Island NY	164			32+DC	3	3		6 Jun
Don Ruland, Kenosha WI	145	51	5	21	1	2	71	11 Oct
Joe Kureth, Southern Pines NC	145	29	55	26+DC	4	4		1 Aug
David Cox, Carrollton AL	142			30	5	5		6 Jun
Larry Vogt, Springfield VA	142	61	44	30+DC	2	3	62	7 Sep
Dennis Smith, Wasco CA	141	23	86	25	3	3	54	11 Sep
Dave Egan, Valleyfield PQ	135	3	38	31+DC	4	2		3 Oct
Paul Luchter, Oceanside LINY	135	52	46	27+DC	3	2	67	8 Aug
Pat Dyer, San Antonio TX	131	2	73	34	2	5	59	13 Oct
Glenn Hauser, San Antonio TX	130	9	69	33	1	4	71	13 Oct
Paul Polin, Morton Grove IL	130			16	2	6		11 Jun
Bill Migley, Lancaster OH	123	40	37	25	6	3	66	31 Aug
J Joel Rosenberg, Downsview Ont	121	43	33	21	4	2	69	1 Aug
Fred Nordquist, N Syracuse NY	107	19	28	19	2	2	69	4 Oct
Jim Pizzi, Orcutt CA	106							27 Aug
Roy Horsley, Steele AL	97	17		18	4	5		12 Jul
Pat Dyer, Gunbarrel Hill CO	48		28	28	3	3	71	7 Sep
Dennis Smith, Santa Barbara CA	35	12	8	4	0	2	51	11 Sep
Dave Alpert, Morton Grove IL	28			5	0	1		11 Jun
David Swanson, Margarita CZ	15			2	0	6		3 Jul
Dave Egan, Valleyfield PQ	115 V	2	35	31+DC	3	2		3 Oct
Tom Yingling, Baltimore MD	70 V			21+DC	1	3	68	1 Jun

People, how about filling in the blanks in your next report? You may specify "no change" but otherwise any data not given in an update will not be carried over from the last one.

TVDX RECORDS

<u>Ch</u>	<u>Call</u>	<u>Location</u>	<u>Miles</u>	<u>DXer, Location</u>	<u>Comments</u>
21	KDAS	Hanford CA	55	Dennis Smith, Sequoiah Crest CA	now KFTV
	WPTA	Fort Wayne IN	765	Robert Cooper, Oklahoma City OK	
	KVFD-	Fort Dodge IA	575	Glen Neal, Sayre OK	was KQTV
	WKMU	Murray KY	540	Bill Draeb, Kewaunee WI	
	WLIW	Garden City LINY	170	Roy Barstow, Teaticket MA	
	WXXI	Rochester NY	500	Bill Draeb, Kewaunee WI	
	WFMJ-	Youngstown OH	440	Carl Lupton, Shelbyville IL	
	WHP-	Harrisburg PA	265	Mark Lewis, Downsview Ont	
			tie	J Joel Rosenberg, Downsview Ont	
	KFWT	Fort Worth TX	255	Glenn Hauser, Enid OK	now off
	WHA-	Madison WI	675	Robert Cooper, Oklahoma City OK	

Only 3 ch 21 records remain unchanged since the last listing in VUD, April 1969.

STATISTICS

22	KFSA-	Fort Smith AR	450	Clarence Rareshide, New Orleans LA	now ch 5
	KWHY-	Los Angeles CA	90	Dennis Smith, Santa Barbara CA	was KPOL-
	WJCL	Savannah GA	265	Joe Kureth, Southern Pines NC	
	WSIL-	Harrisburg IL	440	Bill Draeb, Kewaunee WI	now ch 3
	WSBT-	South Bend IN	735	Robert Cooper, Oklahoma City OK	
	WVUT	Vincennes IN	500	Robert Seybold, Dunkirk NY	
	WKPI	Pikeville KY	550	Bill Draeb, Kewaunee WI	
	WWLP	Springfield MA	405	Dennis Smith, Little Creek VA	
	WKEF	Dayton OH	365	Bill Draeb, Kewaunee WI	
				tie Michael Levstein, Downsview Ont	
				tie Mark Lewis, Downsview Ont	
				tie J Joel Rosenberg, Downsview Ont	
	WDAU-	Scranton PA	625	Bill Draeb, Kewaunee WI	was WGBI-
				tie Ferdinand Dombrowski, Milwaukee WI	
	KVDO-	Corpus Christi TX	465	Ray Escoffier, New Orleans LA	now off
				tie Clarence Rareshide, New Orleans LA	
				755 Ferdinand Dombrowski, Milwaukee WI	
	WVNY-	Burlington VT	685	Bill Draeb, Kewaunee WI	now ch 48
23	WMSL-	Decatur AL	225	Randy Miltier, Campbell CA	was ch 10
	KERO-	Bakersfield CA	735	Robert Weems, State College MS	now off
	WGBS-	Miami FL	10	Dick Clark, Fort Lauderdale FL	
	WAJA-	Miami FL	175	Ron Le Blanc, Marrero LA	
	WSRE	Pensacola FL	735	Glen Neal, Sayre OK	
	WCEE-	Rockford IL	530	J Joel Rosenberg, Downsview Ont	
	WKZT	Elizabethtown KY	425	Bruce Metzner, Madison WI	was ch 49
	WAKR-	Akron OH	435	Mark Lewis, Downsview Ont	
	WCVE-	Richmond VA			

ADDITIONS AND REVISIONS

3	KCRA-	Sacramento CA	MS 1215	Glen Neal, Sayre OK	Johnson 545
	WSAV-	Savannah GA	MS 1085	Glen Neal, Sayre OK	Draeb 925
4	WRC-	Washington DC	MS 1255	Glen Neal, Sayre OK	Cooper 1145
	WKY-	Oklahoma City OK	Tr 575	Ron Le Blanc, Marrero LA	Ruland 405
	KWAB	Big Spring TX	Tr 320	Robert Cooper, Oklahoma City OK	Grace 300
5	KFSA-	Fort Smith AR	Tr 300	Glen Neal, Sayre OK	Bingham 285
	WHEN-	Syracuse NY	(Es) 1355	Glen Neal, Sayre OK	McCormack 1280
	KOCO-	Oklahoma City OK	Tr 575	Ron Le Blanc, Marrero LA	Eckberg TIE
6	KAVE-	Carlsbad NM	Tr 425	Robert Cooper, Oklahoma City OK	Hauser 190
	WHIS-	Bluefield WV (VA)	MS 1025	Glen Neal, Sayre OK	Shorey 870
	CHAT-	Medicine Hat Alta	1160	Glen Neal, Sayre OK	Draeb 1155
8	WQAD-	Moline IL	(Tr) 550	Robert Cooper, Oklahoma City OK	Tilbrook 545
	KPTS	Hutchinson KS	215	Glen Neal, Sayre OK	Garber 200
10	WDIO-	Duluth MN	870	Dave Egan, Valleyfield PQ	McCormack 455
12	WISN-	Milwaukee WI	725	Robert Cooper, Oklahoma City OK	Pom/Wein 450
13	WSPD-	Toledo OH	525	Dave Egan, Valleyfield PQ	Bingham 435
15	WTAP-	Parkersburg WV (OH)	320	J Joel Rosenberg, Downsview Ont	Brown/Nies 280
18	KTBAB	El Dorado AR	320	Robert Cooper, Oklahoma City OK	KNOE-8 new
	WLFI-	Lafayette IN	665	Robert Cooper, Oklahoma City OK	Lewis/Kanaar 440
	WNPI	Norwood NY	480	Frank Merrill, Toledo OH	new
25	KOKH-	Oklahoma City OK	120	Glen Neal, Sayre OK	Hauser 70
27	WSMW-	Worcester MA	400	J Joel Rosenberg, Downsview Ont	Seybold 380
38	WKMR	Morehead KY	435	J Joel Rosenberg, Downsview Ont	Hidley 380
44	WSNS-	Chicago IL	785	Glen Neal, Sayre OK	Rosenberg 430
45	WBFF	Baltimore MD	330	J Joel Rosenberg, Downsview Ont	Seybold 255
46	WKLE	Lexington KY	470	J Joel Rosenberg, Downsview Ont	Seybold 410
47	WTVP	Peoria IL	555	Robert Cooper, Oklahoma City OK	Brown 295
50	WGSP-	Washington DC	30	Tom Yingling, Baltimore MD	now off Kadet/Vogt 10
52	WKON	Owenton KY	455	J Joel Rosenberg, Downsview Ont	Draeb 430
	WNJT	Trenton NJ	340	J Joel Rosenberg, Downsview Ont	Barstow 235
64	W64AA	New York NY	165	Tom Yingling, Baltimore MD	WNEW-5 Luchter 20

Until the next, 73 de Glenn

WORLD LEAGUE OF DX CLUBS

IN

A view of the recent 'Difficulties' in EDXC, & similar happenings in other DX Organisations, its quite apparrent that the time has come to try to get a more 'International Outlook' into our 'hobby'.

After all our hobby, wether we be an SWL, or a 'Ham', is essentially 'international', & embraces the whole world.

At the moment, unfortunately, Nationalistic predjudices & 'Personal Vendetta's are inhibiting the usefulness of the present 'Councils'.

I am not suggesting that, EDXC in Europe, or ANARC in N.A. should be replaced, but that the creation of a Global League of DX & SWL Clubs, which could augment these & similar Org anisations, this may at first sound rather an impossible suggestion, but I firmly believe it can be done, in any case in fact at least we should attempt it.

There must be others throughout the world who think the same way I do about this situation, & who would join me in helping to form this type of League.

There may of course, be some who will point to the ineffectiveness of the United Nations, that perhaps a World League of DX Clubs would probably encounter the same 'National Differences', & so become 'Split'. But to them I would point out that there is a great difference here. This fascinating hobby of ours is Universal, its also a pleasure, & whats more it also brings about friendships between people of all races colour, & creeds, & therefore + think the time has come to try to form this sort of League.

Organised DX'ing is in need of reform, it must be put on a much broader base, to encourage a more 'Interational Outlook'.

I am therefore appealing to SWL'ers & 'Hams' everywhere to give this some thought, please let me have your views, suggestions on this. I can't guarantee to reply to the letters individually, but would write 'Collectively' when I've studied your letters.

From your suggestions we can draw up a 'Charter', & plan the formation of the League.

So, please send me your views etc, to me at this address

Doug Perry
8. Kingsbridge Road
Harold Hill
Essex. RM3 8NX ENGLAND

N.A. Rep. Wesley Huggins
P.O. Box 26
Yadkiuville
North Carolina, 27055

This Article is a reprint from

August CONTRACT, 17, Taunton Road
Bridgewater, Somerset.

TYPED BY AMBROSE MAXIM. THIS ARTICLE IS
NOT MEANT TO BE A STATEMENT OF WTFDA POLICY.
BUT IS THE OPINION OF THE AUTHOR & TYPIST.

THE 14TH BECAME FLAG DAY AS A RESULT OF THE PATRIOTISM OF A 19 YEAR OLD WISCONSIN TEACHER, BERNARD J. CIGRAND. A TEACHER IN WAUBEKA, NORTHWEST OF MILWAUKEE, HAD LONG THOUGHT OLD GLORY DESERVED A DAY OF ITS OWN. ON THE LAST DAY OF SCHOOL IN 1885 (JUNE 14TH), HE HELD THE FIRST FLAG DAY PROGRAM. A SHORT SPEECH EXPLAINING THE MEANING OF THE FLAG, A RECITATION BY A STUDENT, PATRIOTIC SONGS AND THE PLEDGE OF ALLEGIANCE CONSTITUTED THE SIMPLE FIRST PROGRAM. THE TEACHER THEREAFTER CAMPAIGNED ALL OVER THE COUNTRY. IN 1916, WOODROW WILSON CALLED FOR A NATIONAL OBSERVANCE, AND CONGRESS SUBSEQUENTLY PROCLAIMED IT A NATIONAL HOLIDAY.

---FROM BADGER BELL, WISCONSIN TELEPHONE COMPANY.



Let me begin this month's column by thanking all the kind people in the WTFDA who have offered congratulations on my receiving my thousandth

FM station from my Duluth, Minnesota, location. Special thanks to Waldo Bishop, Mike Dorner, Jr. (who calls me the patriarch!), Leslie J. Prus (who also congratulates me on my new fatherhood [a 6 $\frac{1}{2}$ ", 14" baby girl came our way Sept. 26]), Roger Winsor, and Richard Wood. Many of these people had comments about FM in their areas, and these items appear throughout and at the end of the FCC FM news. So here's the FCC news. Remember that powers are effective radiated in watts with "h" meaning horizontal ERP; "v" vertical, and heights are above average terrain in feet (the basis upon which FM coverage is calculated instead of tower height or altitude above sea level). Thanks also to John Ebeling for his fine remarks!

NEW CONSTRUCTION PERMITS

Birmingham AL	99.5	17,800 h	1027'
Venice FL	92.1	3,000 h,v;	300'
Savannah GA WSGF	95.5	100,000 h,v;	200' [calls too]
Bloomington IL	*88.1	10 h	
Mt. Carmel IL	*89.1	10 h	
Murphysboro IL	104.9	2,440 h	198'
Sioux Center IA	94.3	3,000	226'
El Dorado KS	99.3	3,000 h, v;	135'
Cadiz KY	106.3	3,000 h,v;	22'
Hartford-KY	106.3	3,000 h,v;	280'
Thibodaux LA	*91.5	10 h	
Farmington ME	*91.9	10 h	
North Andover MA	*90.5	10 h	
Luverne MN	100.9	3,000 h,v;	240'
Moberly MO	*90.5	10 h	
Parkville MO [a Kansas City suburb]	*90.3	10 h	
Streetsboro OH (N. of Kent)	*91.5	330 h;	105'
Blair NE	*91.1	10 h	
Exeter NH (910 v)	107.1	3,000 h,	58'
Ramah NM	*89.7	2,600 h,v;	330' (Navajo School Board [Ramah is S.E. of Gallup])
Schenectady NY	*89.1	9,300 h,v;	840' (ETV Council)
Syosset NY	*88.5	10 h (Syosset is on Long Is.)	
Jackson OH WLMJ-FM	97.7	2,370 h, 330'.	<u>ON THE AIR!</u>
McMinnville OR	*90.3	10 h	
Milwaukie OR	106.7	100,000 h, v;	500' (Portland suburb)
Greenville SC	*90.1	100,000 h 1110'	(S.C. ETV Commission)
Sioux Falls SD	*89.1	10 h (Augustana College)	
Lebanon TN	*88.7	10 h	
Edinburg TX	104.1	100,000 h,v;	320'
Bellevue WA	*91.1	10 h	

FACILITIES CHANGES

KAYN	94.9	Tucson AZ to 15 kw V
KTCS-FM	99.9	Fort Smith AR to 36,000, 225'
KUOA-FM	105.7	Siloam Springs AR to 34,000 h, v.
KOSE-FM	98.1	Osceola AR to 5,500.
KKDJ	102.7	Los Angeles CA to 8,000 h, 7800 v; 2960'.
WWPT	*90.3	Westport CT to 110 w, 125' (note calls, too).
WZAT	102.1	Savannah GA to 620'. <u>ON THE AIR</u> reports Waldo Bishop 24 hours a day with <u>Hit Parade '71 & Solid Gold.</u>
WJGA-FM	92.1	Jackson GA to 1,200 h,v; 440'.
WTMI	93.1	Miami Beach FL to 50,000 h,v; 340'. No longer [Continues next column]

NEW STATION STARTS -- ON THE AIR!

KHIG	104.9	Paragould AR
KVML-FM	92.7	Sonora CA
WPLP	103.9	Blue Ridge GA (note new call letters, too)
WAYX-FM	102.5	Waycross GA (Waldo Bishop notes they have 100 kw of vertical power as well as "h" power - on 6 am to Mid., MOR.)
WEEM	*91.7	Pendleton IN (calls, too)
WBOW-FM	107.5	Terre Haute IN
KCHA-FM	104.9	Charles City IA
KFNV-FM	93.5	Ferriday LA
KFMZ	98.3	Columbia MO
KAVS	*89.5	Thief River Falls MN - 10 w
KCCM	*91.1	Moorhead MN (300', 94 kw) (KSJR-KSJM network)
KWSC	*91.9	Wayne NE (calls, too; ant. changed to 96' [320 w h])
WRDR	104.9	Egg Harbor NJ
WAFR	*90.3	Durham NC
WDCC	*89.5	Sanford NC
WCWT	*89.5	Centerville OH - 10 w
WKDU	*91.7	Philadelphia PA (Drexel U., shares time with WPWT)
KKLS-FM	93.9	Rapid City SD
WINH-FM	97.7	Georgetown SC
WFNQ	*91.3	Lebanon TN
WKNO-FM	*91.1	Memphis TN
WCIR-FM	103.7	Beckley WV

a Miami Beach station, FCC reports.		
WGIL-FM	94.9	Galesburg IL to 50,000 h, v. WFMS 95.5 Indianapolis likewise to 50,000 but h only.
WXUS	92.7	Lafayette IN to 3 kw V.
WPOR-FM	101.9	Portland ME to 20,000 h,v; 492'.
WYON	101.3	Grand Rapids MI to 50 kw v.
KTCR-FM	97.1	Minneapolis MN to 21 kw v.
WQST	92.5	Forest MS to 27,500 h,v; 290'.
KRGK	104.9	Carthage MO to 3,000, 160'.
WNNN	101.7	Canton NJ to 275' (3000 w).
WJTN-FM	93.3	Jamestown NY increases to 11,000 h,v; 640' to better serve Bob Seybold!
WVCR		Loudonville NY moves from 89.1 to *88.3, power from 10 watts to 370 w, 790'.
WATH-FM	105.5	Athens OH to 3,000 h,v; 300'.
WXUR	100.3	Media PA adds v.
WAVT	101.9	Pottsville PA to 29,000 h, 540'.
WTTU		Cookeville TN from 90.1 to *88.5. Still 10 watts.
KINL	92.7	Eagle Pass TX to 185'.
KVMV-FM	96.9	McAllen TX to 76,000 h.
WNOR-FM	98.7	Norfolk VA to 50,000 h, v; 500'.

CALL LETTER ASSIGNMENTS

KEWE 95.9 Camarillo CA	WBIM *91.5 Bridgewater MA
KORJ 94.3 Garden Grove CA [KTBT-FM]	WTCC *90.9 Springfield MA
KEPC *91.5 Colorado Springs CO	WCBN *89.5 Ann Arbor MI
WYFL *89.1 Jacksonville FL	KKIN-FM 94.3 Aitkin MN
FCC upholds change in call letters from	KBHP 101.1 Bemidji MN
WKIS-FM to WDIZ for 100.3 Orlando FL,	KBOV-FM 94.1 Butte MT
despite objections from Disney World, Inc.	KAIR 98.9 Great Falls MT
WPSB 99.9 Bridgeport CT [WJZZ]	WPST 97.5 Trenton NJ [so disappears the historic WTOA]
WZGC 92.9 Atlanta GA [W. Bishop reports	WALF *89.7 Alfred NY
the change from WGKA-FM: "a great loss	WCNY-FM *91.3 Syracuse NY
with MOR & classical; good listening	KFUN-FM 100.9 Las Vegas NV
station lost"]. WZGC <u>Solid Gold Rock & Roll</u> 24 hours.	WLSE-FM 94.3 Wallace NC
WTUF 107.1 Thomasville GA (WVTR [changes format to	KYTN 94.7 Grand Forks ND [KVBC]
"tough radio"-soul & gospel-writes Waldo Bishop])	WUBE-FM 105.1 Cincinnati OH [KXL]
WNIW *91.1 Oregon IL. FCC notes this station will	WLYT 92.3 Cleveland Heights OH [WCUY]
not replace WNIU *89.5 in nearby DeKalb--both stations	KFJL 98.9 Okalahoma City OK [KBYE-FM]
licensed to Northern Illinois University.	WRHY 92.7 Starview PA
WCCF 100.1 Savanna IL	WJHD *90.7 Portsmouth RI
WMEF 97.3 Fort Wayne IN (WKJG-FM)	WROE 99.3 Neenah WI
KFDI-FM 101.3 Wichita KS (KQTY)	WSHS *91.7 Sheboygan WI

STATIONS GRANTED DUAL-CITY IDENTIFICATIONS:

KDKB-FM 93.3 Mesa AZ to Mesa-Phoenix. WIYQ 99.1 Ebensburg PA to Ebensburg-Johnstown [speaking of Johnstown, the FCC informs me that WARD-FM 92.1 has not deleted, contrary to a report in Variety earlier in the year, although the current Standard Rate and Data Service does not show a WARD-FM; perhaps some DXer can confirm if WARD-FM is on the air or not]. WGMR-FM 101.1 Tyrone PA to Tyrone-State College.

NEWS DIRECT FROM THE FCC KSTE Emporia, KJRL Liberal and KSDB *88.1 Manhattan, all Kansas, have definitely deleted. In light of this confirmed fact from the FCC, the continued operation of KSDB is a special mystery, since Les Prus, who lives in Manhattan, reports that KSDB is on the air Monday through Saturday noon to 11 p. m. and Sundays 6 p. m. to 11 p. m. A local pirate station, "WHAT-FM" 106.9 which identified as Greendale with rock music in stereo, but whose antenna bearing seemed to be from a different Milwaukee suburb, has stopped broadcasting. They gave their power as 100 milliwatts. Speaking of unlicensed stations, I do have a verification from "KRJB-FM" 107.3 Mankato MN when I was in that town. To my knowledge, they are still on the air. The FCC also reports that KIWA-FM 105.5 Sheldon IA has a vertical ERP of 3 kw, WCLH *90.7 Wilkes-Barre PA is 175 h, v; 1020', and that KOBH-FM 96.7 Hot Springs SD is also deleted.

Dr. Richard Wood, Baton Rouge, LA, reports that he's now well into FM DXing, and uses an AJ-15 and rotor -- and I'm happy to have been of encouragement in the FM aspect of this hobby. [Richard, as many of you know, is an excellent shortwave DXer and monitor, and is the author of Shortwave Voices of the World, which I highly recommend for anyone interested in radio propagation to read; the book is available from Gilfer.]

MORE DXING CONSTITUTION COMMENTS Dennis Smith, Wasco CA, had several detailed and thoughtful observations about my "Constitution" and Glenn Hauser's DXing "Guidelines," both published a few months ago. Due to space limitations, I will abstract and edit the most salient ideas. Dennis feels that "a station can be definitely identified by other than hearing the call letters and/or location. This can be a particular problem in MS DXing (probably why I have not gotten much by MS--Ed.)." CATV: I avoid CATV like a plague, although Glenn says one can use it, as connected, to receive stations. This idea has the fault that the DXer would have to find out which of his CATV-received stations are from the system's remote antenna, and which are put into the system via microwave relay or closed-circuit. . . If a station changed its transmitter and city of license my tendency has been to regard them as the same station. . . I, too, believe that a DXer may obtain written "verifications" of stations heard, though these "proofs of reception" are not as important or necessary as some DXers or clubs believe. I don't rule out the use of an eventual reply from a station to identify a "tentative" logging. As for different types of "proofs of reception," I hold all of equal importance--replies from stations, photos in the case of television, and tape recordings-- but none as important as the belief in the DXer's mind that he has actually received a particular station. Generally, I am in complete agreement with all other parts of the "DXing Constitution." A long, thoughtful letter from Mike Dorner, Jr. will be summarized in next month's column. Thanks to all my contributors this month. Good luck in picking up some of these new stations!

EUROPEAN SCENE

By Roger Bunney
Trelawne, Cupernham Lane
Romsey, Hants, UK SO5 8JH

The big talking point this month is the excellent tropes that happened on 6-8th October. Previous to this, and indeed during much of September, when the weather was excellent, with high pressure, the expected tropes never opened up. However, the wait was worthwhile. Generally WIG was received at excellent strengths, with some DXers reporting floaters on many channels, indeed to look at several reports is similar to looking at a station list! Many DXers seem to stay on UHF during openings; this is rather unfortunate, as there is still a lot about on Band 3 (hi band) and on FM radio. As an example, a DXer in Sussex logged Dresden on ch. E10, in East Germany at 760 miles, and Katowice, Poland ch. R8 at 900 miles. Although not the best opening noted within recent years, it was one of the better ones. Generally, stations to the east and southeast were logged in the United Kingdom, and to a limited extent into France. My own log for the period is as follows.

- 16 Sept. Belgium E2, Czechoslovakia R1 (MS)
- 18th CT (Czech) R1; TVE (Spain) E2, ORTF Cherbourg F12, Brest 21 (tropes)
- 19th BRT (Belgium) E2 tropes
- 20-24th BRT E2
- 25th CT R1 (MS)
- 27, 28th BRT E2
- 29th CT R1; ORTF Cherbourg F12; Le Havre F7, Channel Is. B9; BRT E2 (tropes)
- 1 Oct. BRT E2; NOS (Holland) E4
- 2nd DFF (East Germany) E4 (MS); BRT E2; NOS E4
- 3rd Switzerland E2 (Es); BRT E2
- 5th ORF (Austria) E2a (MS)
- 6th All tropes. ORTF Brest, Lille ch. 21; Paris 22; Caen 25; Le Mans 27; Nantes 29; Rouen 33; Le Havre 43; Rennes 45; Vannes 56; Belgium E10; E11; NOS E4; Eire B7, H; UK Dover B 10; Newhaven B6 relay station (new one for me).
- 7th All tropes. West Germany 21, 24, 27, E11; NOS E4; ORTF 21x2, 33, 43, F7, F12, 25, 29; Belgium E2, 3, 8, 10, 11. Ch. Is. B9.
- 8th All tropes. West Germany E6, 8, 9, 10, 11, 21, 22, 24, 25, 26, 29, 31; East Germany E5, E6. One new transmitter: ch. E9 floater - Waldenburg.
- 9th CT R1; NRK (Norway) E4 (both E's) BRT E2.
- 10th CT R1, SR (Sweden); E2 (MS)
- 11th DFF E4 MS
- 12th DFF E4 MS., SR E2 (E's)
- 13th SR E2, E4; RAI (Italy) IB (all E's)
- 15th NOS E4 (tropes)

I've heard that Norway will start colour broadcasting in January, 1972. At first they will have use of income colour from Eurovision, but they will supplement this with locally originated VTR and telecine. As soon as a "significant" number of programmes are in colour, an extra tax will be levied for users of colour sets. Spain is now using the Intelsat-4 Atlantic satellite to relay news bulletins and outside broadcasts to the Canary Island TVE station and production centre. Approximately 14 hours per week of programme material is passed by this system. The receiving station in the Canaries at Aguires, Grand Canary Island, relays the signals to the Las Palmas centre by radio link some 35 km away.

Colour transmissions in Czechoslovakia have started on their second service, but on a very limited basis, known as "Experimental Colour Transmissions." The second service transmits only for a few hours in the evening on Tuesday, Thursday, and Sunday only, and some of the news programmes are in parallel with their first service. The colour tests occur about once a week and I am informed that Prague viewers have the opportunity to visit two Prague cafes provided with colour receivers and verify the quality of these experiments for themselves. However, things look brighter, as from May, 1973, there will be at least eight hours of colour TV a week.

I should be moving during the month of November, so the next column of mine should be done in December. I am moving from the valley (!) town of Romsey, to Southampton, where at least I should be better placed, although somewhat nearer to the locals on the Isle of Wight, some 14 miles away. Good DX.

EUROPEAN SCENE

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