

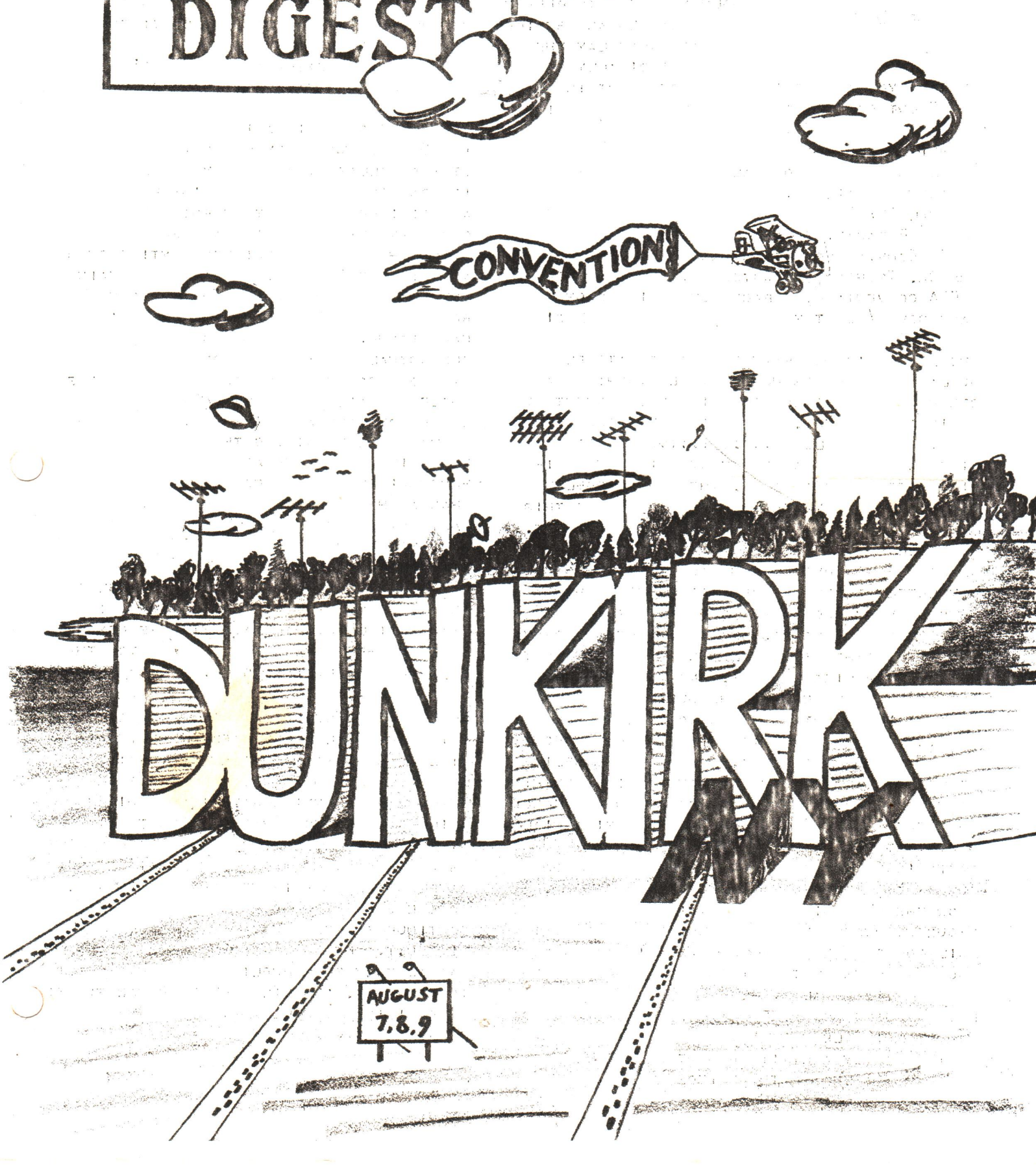
# VHF-UHF DIGEST

JULY 1970

CONVENTION

# DUNKIRK

AUGUST  
7, 8, 9



# Headquarters

1970

As I'm sure I need not mention, last month's VUD was a mixed up mess. We had the VUDs all ready to mail when Dave's wife discovered we had forgotten something. So the pages inserted after stapling were a last minute omission; better late than never. In addition, we occasionally don't get a page back-to-back with another page of the same column, and we did that again last month and this. Hence we have decided to change the color of a column or two to prevent this in the future. Being cramped for space at HQ, and besides the columns come in at various times and we can't lay them out ahead of time, this problem will happen periodically no matter what we do. Please, we're trying!

In case you wonder if you missed anything last month, here is a table of contents:

FRONT COVER/PRESIDENT'S MESSAGE:	2	SIDES
FCC, TV AND FM:	2	"
TECHNICORNER/WAND SYNOPSIS:	2	"
EUROPEAN/EMBLEM PROPOSAL:	2	"
WESTERN TV/MAILBAG:	2	"
CENTRAL TV/CCI:	2	"
FM DX/PROPAGATION WAND:	4	"
ANARC CONV./PROPAGATION WAND:	4	"
VHF DX, TECHNOTES, EASTERN TV:	2	PG EACH
WTFDA CONVENTION,	2	PAGES OF 1 SIDE EACH
BACK COVER/REPRT FORM	2	SIDES

THE EXACT ORDER IN WHICH PAGES APPEAR IN YOUR VUD MAY VARY DEPENDING ON HOW IT WAS COLLATED. BASICALLY, COLLATING IS DONE IN THE ORDER IN WHICH PAGES ARE FINISHED AND THAT DEPENDS ON THE ORDER IN WHICH STENCILS ARE RECEIVED; SINCE THEY MAY BE RECEIVED ANYTIME OVER A PERIOD OF 2 WEEKS, WE CAN'T MAINTAIN ANY SET ORDER OF PAGES. FOR THE SAME REASON, WE CAN'T PUBLISH AN INDEX IN EACH ISSUE. UNTIL A FEW HOURS BEFORE THE ACTUAL MAILING, WE DON'T KNOW HOW BIG SOME COLUMNS WILL BE OR HOW BIG THE WHOLE VUD WILL BE. SEVERAL MONTHS AGO, WE PRE-STAMPED ALL COVERS WITH 10¢ STAMPS WHILE AWAITING THE LAST COLUMN TO ARRIVE. IT NEVER ARRIVED SO WE COULD HAVE MAILED THE VUD FOR 2¢ EACH LESS THAN WE HAD ALREADY PUT ON THEM. \$3 WAS WASTED THEREFORE. SINCE THEN WE HAVE NOT EVEN PURCHASED THE STAMPS UNTIL THE LAST COLUMN IS RECEIVED AND WE DECIDE TO WAIT NO LONGER. IF PUBLISHING CAN'T BE FINISHED ONE WEEKEND, IT LIKELY WILL HAVE TO WAIT TIL THE NEXT WEEKEND WHEN DAVE AND I CAN GET TOGETHER AGAIN FOR FINISHING UP.

EFFECTIVE IMMEDIATELY, WE ARE RAISING THE PRICE OF SAMPLES AND BACK-ISSUES. SAMPLES WILL BE 50¢, AND BACK-ISSUES TO PAID MEMBERS WILL BE 35¢ EACH, EXCEPT THE JANUARY 1970 SPECIAL ANNIVERSARY ISSUE WHICH IS STILL 50¢. IF YOU EVER STOPPED TO FIGURE IT OUT, YOU ARE PAYING ABOUT 37¢ PER MO AS A MEMBER, SO IT IS UNREALISTIC THAT SAMPLES AND BACK-ISSUES SHOULD COST LESS. HOWEVER, AS A SERVICE TO MEMBERS, WE'LL CONTINUE TO OFFER BACK-ISSUES AT A SLIGHT DISCOUNT. THE NEW 50¢ RATE FOR SAMPLES HAS ALREADY BEEN PUBLISHED IN HAM TRADER IN MID-JUNE, AND WILL APPLY TO ALL FUTURE ADVERTISING AS WELL.

THE LAST 2 ISSUES HAVE BEEN OF RELATIVELY LOW QUALITY DUE TO THE CHANGE IN MIMEO MACHINES AND STENCILS. THIS ISSUE IS STILL NOT PERFECT BUT A BIG IMPROVEMENT, AND A SIGN OF THINGS TO COME. THE SO-CALLED RECONDITIONED ELECTRIC MIMEO WE BOUGHT WAS FAR FROM BEING RECONDITIONED TO OUR STANDARDS. THE MAJOR PROBLEM WAS FIXED ONLY YESTERDAY (JUNE 20TH) SO THIS VUD ONLY PARTIALLY REFLECTS THE IMPROVEMENT. WE STILL HAVEN'T PAID A NICKEL ON THE MACHINE ALTHO A MONTH OVERDO; AND WE WON'T PAY UNTIL COMPLETELY FIXED TO OUR SATISFACTION WHICH SHOULD BE VERY SOON NOW. SO WE EXPECT NEXT ISSUE WILL BE NEAR PERFECT, AND WE CAN BEGIN WORRYING ABOUT OTHER THINGS AGAIN. DUE TO THE OUTLAY FOR SUPPLIES IN BULK, AND THE MIMEO TO BE PAID OFF BY THE END OF THE JUNE, OUR FIRST HALF FINANCIAL STATEMENT DOESN'T LOOK TOO GOOD. WE ARE NOT WORRIED SINCE WE HAVE ABOUT \$50 IN SUPPLIES ON HAND, OR ENOUGH TO PUBLISH AT LEAST 2 MORE MONTHS WITHOUT BUYING ANYTHING OF MAJOR COST. HOWEVER, WE FEEL YOU SHOULD KNOW THE STATUS QUO. THEREFORE, A BRIEF FINANCIAL STATEMENT WILL APPEAR ELSEWHERE IN THIS VUD TO INDICATE THE SITUATION 10 DAYS FROM NOW, JUNE 30TH, WHICH IS THE END OF THE PERIOD. WE KNOW THE VUDS WILL NOT BE MAILED BY THAT DATE BECAUSE WE JUST OBTAINED STENCILS YESTERDAY TO MAIL TO SOME OF THE EDITORS. THIS WAS A HQ PROBLEM SO THE LATE MAILING OF THIS VUD, AND THE JUNE ISSUE ALSO, WERE FAULTS OF HQ THROUGH LATE RECEIPT OF NEW TYPE STENCILS WE MUST NOW USE ON THIS ELECTRIC MIMEO. (IN LATE MAY WE OBTAINED ONLY A LIMITED QUANTITY WHICH WAS PROMPTLY MAILED TO THE EDITORS); NOW WE HAVE 200+.

WE OFTEN RECEIVE COMPLAINTS AT HQ ABOUT VUDs RECEIVED LATE OR NOT AT ALL, AND THIS ISN'T SURPRISING SINCE MAIL SERVICE HAS ALWAYS GONE DOWN AS PRICES HAVE GONE UP PROPORTIONATELY. HOWEVER, SINCE THE SPRING USA MAIL STRIKE, AND THE ANNUAL CANADIAN MAIL STRIKE, THE COMPLAINTS HAVE BECOME MORE NUMEROUS. THERE ARE SEVERAL REASONS FOR THIS, IF WE MAY TRY TO EXPLAIN AT LEAST SOME OF THEM. FIRST OF ALL, THE VUDs HAVE BEEN MAILED LATER IN RECENT MONTHS, AS LATE AS THE 13TH ONE MONTH; WE NEVER SEEM TO MAKE OUR DEADLINE OF THE 1ST OF THE MONTH ANYMORE. TECHNICALLY, THIRD CLASS MAIL IS NOT SUPPOSE TO BE DATED BECAUSE YOU WOULD THEN KNOW HOW LONG THE PO TOOK TO DELIVER IT. FIRST CLASS MUST BE DATED AND THEREFORE YOU ALWAYS KNOW HOW LONG IT TOOK UNLESS THE DATE IS ILLEGIBLE IN THE POSTMARK.

OF COURSE THERE ARE OTHER REASONS BESIDES THE LATE MAILING. THERE ARE RUMORS THE PO STILL HAS STOCKPILED MAIL FROM THE SPRING STRIKE, ALTHO I HAVE NO WAY OF KNOWING IF THIS IS TRUE OR NOT. CANADIANS HAVE SOMETIMES VOWED THAT THIS IS TRUE UP THERE, AND THAT USA MAIL SERVICE IS MUCH BETTER THAN CANADIAN. IF TRUE, THEY ARE CERTAINLY TO BE PITIED BECAUSE WE KNOW HOW BAD IT IS DOWN HERE. (I MAILED A LETTER IN TORONTO 2 BLOCKS FROM THE MAIN PO LAST AUGUST; IT WAS CANCELLED 14 HOURS AFTER I MAILED IT AND RECEIVED LESS THAN A DAY AFTER THAT IN MILWAUKEE. I AM TOLD THE ONE DAY SERVICE AFTER CANCELLATION WAS DUE TO THE SPEED OF THE USA PO AFTER IT GOT HOLD OF IT, NOT TO THE CANADIAN PO HANDLING.)

IN THE PAST YEAR THERE HAS BEEN QUITE AN UPSWING IN MAILING OF VUDs BY FIRST CLASS AS MORE AND MORE MEMBERS GET DISGUSTED WITH THIRD CLASS. BEFORE LAST SUMMER HARDLY ANY MEMBER PAID EXTRA FOR FIRST CLASS BUT NOW A FULL 25% OF OUR MEMBERSHIP PAYS EXTRA! THIS USE TO BE A NUISANCE FOR HQ BUT IT CEASES TO BE A NUISANCE WHEN SO MANY MEMBERS INSIST ON IT. OVERSEAS MEMBERS WITHIN THE USPO, CANADIANS, AND ANYONE IN THE MILITARY ARE ENCOURAGED TO OBTAIN THIS SERVICE FOR SPEED, RELIABILITY AND FORWARDING. LET ME EXPLAIN.

THIRD CLASS IS CONSIDERED JUNK BY THE PO, AND IS THEREFORE SHIPPED AT THE CONVENIENCE OF THE PO---WHEN ALL FIRST CLASS HAS BEEN PROCESSED. IF THEY HAVE A BIG RUSH, LIKE DURING THE CHRISTMAS CARD TIME, IT MAY SIT QUITE AWHILE BEFORE PROCESSING. WHEN SOMETHING SITS LONG ENOUGH IT MAY ALSO BECOME LOST, AND OFTEN DOES. THE CHRISTMAS RUSH IS A PARTICULAR HEADACHE FOR THE PO AND FOR US. THE 1968 RUSH WAS THE FIRST WE ENCOUNTERED IN THIS CLUB, AND SOME STORIES WERE UNBELIEVABLE: VUDs REACHING CHICAGO AS LATE AS 6 WEEKS AFTER MAILING, WHILE OTHER CHICAGO MEMBERS RECEIVED THEIRS IN ONLY 3 WEEKS. OTHERS NEVER RECEIVED THEIR VUDs AT ALL. IN 1969, I RECEIVED SEVERAL LARGE ORDERS FOR BACK-ISSUES AND HELD UP THE MAILING TIL AFTER CHRISTMAS SO THEY WOULD BE SURE OF ARRIVING AT ALL AND IN A REASONABLE LENGTH OF TIME. I WAS EVEN TEMPTED TO MAIL ALL VUDs BY FIRST CLASS WHETHER THAT RATE HAD BEEN PREPAID OR NOT, BUT THIS WOULD BE QUITE AN EXTRA EXPENSE WITHOUT COMPENSATION SO I DECIDED AGAINST IT.

THIRD CLASS MAIL IS NOT FORWARDABLE FREE AS FIRST CLASS IS. SO IF YOU MOVE, WITHOUT SENDING SUFFICIENT ADVANCE NOTICE TO HQ, YOU ARE NOT LIKELY TO GET YOUR VUD. DELIVERY TIME OF THIRD CLASS IS NORMALLY UP TO 3 WEEKS DEPENDING ON DISTANCE AND THE CONVENIENCE OF THE PO. WHEN A CHANGE OF ADDRESS REACHES HQ, IT IS IMMEDIATELY RECORDED BUT THERE MAY BE A LAG OF SEVERAL WEEKS FOR IT TO BECOME EFFECTIVE. IF A VUD HAS JUST BEEN MAILED IT MAY TAKE 3 WEEKS FOR IT TO ARRIVE; OFTENTIMES THE CHANGE OF ADDRESS IS TOO LATE TO CATCH THIS AND THE VUD WILL EITHER BE RETURNED TO HQ OR THROWN AWAY WITHOUT NOTIFYING HQ OR THE RECIPIENT. THERE HAVE BEEN INCIDENCES OF A MEMBER NOT RECEIVING VUDs FOR SEVERAL MONTHS AND STILL NOT NOTIFYING HQ OF A CHANGE OF ADDRESS. WHEN 2 OR 3 OF THESE INSTANCES OCCURRED ALMOST SIMULTANEOUSLY, WE BEGAN STAMPING RETURN REQUESTED ON THE COVERS SO THE VUDs WOULD BE RETURNED TO HQ WITH THE NEW ADDRESS. THERE IS A FLAT FEE OF 10¢ FOR RETURN, THE ORIGINAL MAILING FEE, THE RETURN FEE, AND THE REMAINING FEE ADD UP TO MAKE THE CLUB'S REMAINING FEE OF 30¢. HOWEVER, ALL TOO OFTEN, THE MEMBER IS NOT CONCERNED ENOUGH TO SEND THE 30¢ TO HQ SO THAT ISSUE IS NOT REMAILED AT ALL. IT THEN BECOMES A BACK-ISSUE FOR RESALE TO SOMEONE ELSE. THE MEMBER'S SUBSCRIPTION IS NOT CHANGED BECAUSE HQ HAS PAID FOR THE MAILING EVEN THOUGH THE MEMBER NEVER RECEIVED IT. ANY CHANGE OF ADDRESS SENT IN TOO LATE IS LIKELY TO TURN OUT THIS WAY, SO IF YOU MOVE AND MISS A VUD OR 2, BLAME IT ON YOUR LATENESS, AND SEND THE REMAINING FEE TO HQ IF YOU WANT THOSE BACK-ISSUES. WE WON'T NOTIFY YOU. MILITARY PERSONNEL AND COLLEGE STUDENTS ARE THE MOST FREQUENT OFFENDERS. I HAVE MOVED QUITE A FEW TIMES MYSELF, USUALLY ON SHORT NOTICE, AND I REALIZE THAT THERE ARE MANY THINGS ON ONE'S MIND WHEN MOVING SO THAT MAGAZINE AND NEWSPAPER SUBSCRIPTIONS MAY BE THE LAST THING TO OCCUR TO YOU AS IMPORTANT. THE POST OFFICE HAS CORRESPONDENT AND PUBLISHER CHANGE OF ADDRESS CARDS FREE OF CHARGE, SO I SUGGEST YOU KEEP A STOCK ON HAND IF YOU ANTICIPATE MOVING. THESE CAN BE FILLED OUT FAR AHEAD OF TIME EXCEPT FOR THE NEW ADDRESS, AND IT THEN TAKES VERY LITTLE TIME TO FILL IN THE NEW ADDRESS AND MAIL WHEN THE TIME COMES. IF YOU RECEIVE A LARGE NUMBER OF PERICALS AS I DO, THIS IS AN ESSENTIAL PART OF MOVING AND NOT TO BE TAKEN LIGHTLY IF SPENDING MANY DOLLARS ANNUALLY FOR MAGAZINES YOU MAY NEVER GET WHEN YOU MOVE. FIRST CLASS WOULD SOLVE YOUR FORWARDING PROBLEMS IN MOST CASES, BUT ITS UP TO YOU TO DECIDE.

# ELECTRONICS & PHILATELY

EVER THOUGHT OF COMBINING STAMP COLLECTING AND DXING--OR YOUR OCCUPATION? MANY DO.

STAMP COLLECTING HAS CHANGED DRASTICALLY SINCE WORLD WAR 2, BECAUSE STAMPS HAVE CHANGED DRASTICALLY. STAMPS ARE MUCH MORE COLORFUL, AND MORE NUMEROUS. SOME COUNTRIES DERIVE ALL OR MOST OF THEIR INCOME FROM SELLING STAMPS TO COLLECTORS WORLDWIDE. IN 1949 A FEW MILWAUKEEANS FOUNDED A CLUB TO FURTHER THEIR INTERESTS, TOPICAL COLLECTING. THEY DIDN'T COLLECT A SINGLE COUNTRY OR A GROUP OF COUNTRIES, BUT A A TOPIC OR SEVERAL TOPICS. TOPICAL COLLECTORS ARE ONLY INTERESTED IN COLLECTING A CERTAIN THEME OR OBJECT OR OTHER SPECIFIC LIMITED AREA OF PHILATELY, NOT UNLIKE THE DXER WHO LIKES DX IN GENERAL AND ONE OR TWO BANDS IN PARTICULAR. THAT 1949 CLUB OF A FEW PEOPLE HAS GROWN TO OVER TEN THOUSAND COLLECTORS IN 21 YEARS! STILL HEADQUARTERED IN MILWAUKEE, THE AMERICAN TOPICAL ASSOCIATION (ATA) IS THE LARGEST SPECIALIZED PHILATELIC SOCIETY IN THE WORLD. PRAISE HAS BEEN LAVISHED ON THE SOCIETY BY EVERYONE FROM PHILATELIC PUBLICATIONS AND CLUBS WORLDWIDE TO DWIGHT EISENHOWER AND HIS POSTMASTER GENERAL ARTHUR SUMMERFIELD.

I HAVE BEEN INTERESTED FOR SEVERAL YEARS IN COLLECTING RADIO, TV AND AFFILIATED TOPICS ON STAMPS, BUT UNTIL COMPARATIVELY RECENTLY THERE WEREN'T MANY OF THESE STAMPS AND NO AVAILABLE LIST OF THEM FOR ME TO TAKE IN HAND AND SCROUNGE AROUND THE STAMP STORES. ABOUT A YEAR AGO HOWEVER, RTVE MAGAZINE (NOW SCIENCE & ELECTRONICS) BEGAN A COLUMN CALLED "STAMP SHACK" LISTED STAMPS OF PHILATRONIC INTEREST AS THEY CALL THEM. YOU MAY WISH TO LIMIT YOURSELF TO TV AND/OR RADIO, OR TO BROADEN YOUR FIELD YOU MAY WISH TO INCLUDE RADAR, TELEPHONE, TELEGRAPHY, SPACE SATELLITES, ETC. SOMETIMES IT IS HARD TO DRAW THE LINE BETWEEN FIELDS OF INTEREST IF YOUR IMAGINATION CAN SEE BEYOND THE ACTUAL PURPOSE OF ISSUANCE.

THERE IS MUCH IN PHILATELY TO INTEREST EVERYONE, FROM A YOUNG CHILD TO PRESIDENTS AND KINGS. FRANKLIN ROOSEVELT AND KING GEORGE VI OF ENGLAND WERE AVID COLLECTORS, AS WAS CARDINAL SPELLMAN OF NY. IT IS A RESTFUL HOBBY WHICH TEACHES GEOGRAPHY AND HISTORY IF YOU GET INTO IT, AND IT'S FUN. WITH THOUSANDS OF NEW STAMPS BEING ISSUED EVERY YEAR, IT IS NO LONGER POSSIBLE TO COLLECT EVERY STAMP ISSUED. TIME AND MONEY WOULD NOT ALLOW. SO IT HAS BECOME NECESSARY TO SPECIALIZE IN A PARTICULAR COUNTRY OR AREA, OR TOPICAL(S). ATA HAS BOOKLETS LISTING EVERYTHING FROM ART TO ZOOLOGY. IF YOU ARE A DOCTOR YOU MAY WISH TO COLLECT MEDICINE ON STAMPS; IF YOU LOVE ART YOU CAN COLLECT THE WORLD'S GREAT MASTERPIECES IN MINIATURE, IN THEIR FULL NATURAL COLORS. IF YOU LOVE GIRLS, COLLECT THEM ON STAMPS. I HAD THIS THING FOR QUEEN ELIZABETH WHEN I WAS IN MY EARLY TEENS, SO I COLLECTED HER. NOW ITS QUEEN SIRIKIT OF THAILAND AND MRS. FERDINAND MARCOS OF THE PHILIPPINES WHO TURN ME ON). A FEW BEAUTY CONTEST WINNERS HAVE ALSO BEEN PICTURED ON STAMPS, AND THERE ARE ALWAYS FEMALE GYMNASTS.

IF WOMEN ARE NOT YOUR PRIMARY INTEREST, YOU MAY WISH TO COLLECT AMERICANA (FAMOUS AMERICANS ON THE STAMPS OF OTHER COUNTRIES), OR SPACESHIPS, ROCKETS, ETC IN THE SPACE FIELD, OR BIRDS, BUGS, CASTLES, RELIGION, SHIPS, SPORTS, FISH, FLAGS, FAIRY TALES, MAPS, WORLDS FAIRS, MARTIN LUTHER KING OR THE KENNEDYS, OR EVEN STAMPS ON STAMPS. THERE ARE DOZENS OF ALREADY POPULAR FIELDS OR YOU MAY WISH TO START ANOTHER. OR YOU MAY WISH TO COLLECT THE COUNTRY OF YOUR ANCESTORS, OR A COUNTRY YOU'VE BEEN TO OR WANT TO VISIT SOMEDAY.

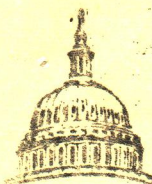
BUT OUR PRIMARY CONCERN HERE IS PHILATRONICS, OR MORE PARTICULARLY TV-RADIO. TV AND RADIO ARE STATUS SYMBOLS TO THE EMERGING COUNTRIES OF THE WORLD SO THEY OFTEN ISSUE STAMPS WHEN THEY OPEN A NEW SERVICE, OR IN THE CASE OF OLDER COUNTRIES THEY MAY ISSUE A STAMP TO COMMEMORATE THE ANNIVERSARY OF ESTABLISHMENT OF THE SERVICE. THE ANNIVERSARIES OF RADIO JAPAN, AUSTRIAN RADIO, AND THE VOICE OF AMERICA WERE COMMEMORATED IN RECENT YEARS. ENGLAND NOTED THE CONSTRUCTION OF A NEW POST OFFICE TOWER WITH TV RELAY, AND WEST GERMANY ISSUED ONE FOR THE ESTABLISHMENT OF THEIR COLOR TV SERVICE. A NEW TV RELAY SYSTEM IN THE RYUKYU ISLANDS (OKINAWA) WAS NOTED PHILATELICALLY, AS ARE THE FREQUENT OPENINGS OF TV SATELLITE GROUND STATIONS AROUND THE WORLD.

THERE ARE NUMEROUS WEEKLY, MONTHLY AND QUARTERLY STAMP PUBLICATIONS, AND THE ANNUAL CATALOGS PUBLISHED BY SEVERAL FIRMS. YOU MAY WISH TO LOOK AT SOME OF THEM IN LIBRARIES IF NOT INTERESTED IN SUBSCRIBING. ALTHOUGH COLLECTING IS GENERALLY FOR FUN, WISE BUYING WITH THE HELP OF AN INEXPERIENCED BROKER CAN ALSO MAKE COLLECTING VERY PROFITABLE, AND AN EXCELLENT HEDGE AGAINST INFLATION.

# FCC

Charles A. Dobbins  
12851 Longacre  
Detroit, Michigan 48227

FM NEWS FOR JULY 1970  
FM STATIONS OPERATING AS OF MAY 1, 1970  
Commercial FM 2118  
Educational FM 413  
Total FM 2531



## FCC TV

# NEWS - DATA

### FCC COMPLETED ACTIONS (FINAL ACTIONS)

Bath, Me. 95.3 3 kw. Catherine Porter AAT 175 ft.  
\*Berrien Springs, Mi. 90.9 17 kw. Andrews Broadcasting Co. AAT 300 ft.  
\*Denver, Co. 90.1 10 w. University of Denver AAT 145 ft.  
\*Norman, OK. 106.3 3 kw. University of Oklahoma AAT 151 ft.  
\*Pueblo, CO. 90.5 10 w. Southern Colorado State College AAT 113 ft.  
Roseburg, OR. 103.1 2.7 kw. WRR, Inc. AAT 218 ft.

### AUTHORIZED STARTS

KPGY(FM) Ames, IA. 91.9 TPO 10 w. AAT 145 ft.  
WPOP(FM) Charlotte Amalie, VI. 101.1 50 kw. AAT 1500 ft.  
WCYN-FM Cynthiana, KY. 102.3 3 kw. AAT 98 ft.  
KYNO-FM Fresno, CA. 95.5 50 kw. AAT 320 ft.  
WGVL(FM) Gainesville, FL. 105.5 3 kw. AAT 265 ft.  
WBAQ(FM) Greenville, MS. 97.9 26.5 kw. AAT 120 ft.  
\*WHWE(FM) Howe, ID. TPO 10 w. 89.7  
KFUP(FM) Kingsville, TX. 97.7 3 kw. AAT 130 ft.  
WVCC(FM) Linesville, PA. 101.7 3 kw. AAT 220 ft.  
KLOQ(FM) Lyons, KS. 105.5 3 kw. AAT 175 ft.  
\*WUKP(FM) Prestonbuey, KY. 89.1 TPO 10 w.  
WWSR-FM St. Albans, VT. 102.3 3 kw. AAT 215 ft.  
WICO-FM Salisbury, MD. 94.3 3 kw. AAT 170 ft.  
WCLF(FM) Tallahassee, FL. 104.9 38 kw. AAT 440 ft.  
\*WETA-FM Washington, DC 90.9 75 kw. AAT 610 ft.

### CALL LETTER APPLICATIONS

Andrews Broadcasting Corp., Berrien Springs, Mi. req \*WAUS-FM  
Broken Arrow Broadcasting Co., Broken Arrow, OK. req KBKN(FM)  
KZYM-FM Missouri-Illinois Broadcasting Co., Cape Girardeau, MO. req KFMP(FM)  
Xavier University, Cincinnati, OH. req \*WVXU-FM  
Wayside Broadcasting Corp., Front Royal, VA. req WFFV(FM)  
\*KCBL-FM Colorado State College, Greeley, CO. req \*KJNC-FM  
Helena Vocational Tech. Center, Helena, MT. req \*KHTC(FM)  
Miami Bible College Inc., Miami, FL. req \*WMCU(FM)  
University of Oklahoma, Norman, OK. req KGOU(FM)  
Thomasville Broadcasting Co., Thomasville, GA. req WRTG(FM)  
Copiah-Lincoln Junior College, Wesson, MS. req \*WWCL(FM)

### CALL LETTER ACTIONS

Northern State College; Aberdeen, SD gtd \*KASD(FM)  
Assurance Science Foundation, Cupertino, CA. gtd \*KKUP(FM)  
Glendale Broadcasting Corp., Glendale, AZ. gtd KXTC(FM)  
Lincoln University, Lincoln University, PA. gtd \*WLIU(FM)  
Rice County Broadcasting Inc., Lyons, KN. gtd KLOQ(FM)  
WIMGW-FM Regional Broadcasters Inc., Meadville, PA. gtd WZFR(FM)  
Triple H Radio Inc., Mineral Wells, TX. gtd KMWT(FM)  
\*WMKY-FM Morehead State University, Morehead, KY. gtd \*WMKY(FM)  
Morristown Board of Education, Morristown, NJ gtd \*WJSV(FM)  
Bowie County Broadcasting Inc., New Boston, TX. gtd KNBO-FM  
Radio Gulf Inc., Panama City, FL. gtd WGNE-FM  
KFMZ(FM), Robert W. Sudbrink, Pasadena, TX. gtd KYED(FM)  
Charlotte County Broadcasting Corp., Punta Gorda, FL. gtd WCCF-FM  
K...-FM, Doubleday Broadcasting Co., San Antonio, TX. gtd KEXL(FM)  
Alfred Dienert and Walter F. Bennett, Waverly, OH. gtd WIBO(FM)  
Humphreys County Broadcasting Co., Waverly, TN. gtd WURY(FM)  
Yuma Union High School District, Yuma, AZ. gtd \*KOFA(FM)

Boulder, CO. Regents of Univ. of Colorado seek 89.3 , TPO 1 kw. AAT 18 ft.  
Carmel, CA. Monterey Bay Area Media seeks 101.7 , 62.5 w. AAT 591 ft.  
\*Columbia, SC. The Benedict College, seeks 90.9 , 15.8 kw. AAT 222.6 ft.  
Dillon, MT. Vigilante Broadcasting Co., seeks 98.3 , 1 kw. AAT 480 ft.  
Forest City, IA. Douglas E. Eddy, seeks 102.3 , 3 kw. AAT 217 ft.  
Georgetown, TX. Georgetown Broadcasting Co., seeks 96.7 , 2.99 kw. AAT 290 ft.  
\*Lafayette, ID. Lafayette School Corp., Jefferson High School seeks 91.9 TPO 10 w. AAT 95ft.  
\*Longview, WN. Lower Columbia College seeks 89.9 , 10 w.  
Manistee, MI. Manistee Broadcasting Corp., granted 97.7 , 3 kw. AAT 155 ft.  
Mobile, AL. Gospel Voice Inc., seeks 92.9 , 100 kw. AAT 348.6 ft.  
Norway, ME. Oxford Hills Radio Communications Inc. , seeks 105.5 , 2.5 kw. AAT 324 ft.  
Ocean Springs, MS. Charles H. Cooper seeks 103.1 , 3 kw. AAT 295 ft.  
Orange, VA. WJMA inc. granted 96.7 , 3 kw. AAT 170 ft.  
Oxnard, CA. Raymond I. Kandel seeks 98.3 , 3 kw. AAT 107 ft.  
Reno, NV. Elgin Capital Corp., seeks 106.9 , 50 kw. , AAT 2240 ft  
Sallisaw, OK. Big Basin Broadcasters Inc. seeks 95.9 , 3 kw.  
Sun Prairie, WI. Sun Broadcasting Inc., seeks 92.1 , 3 kw. AAT 300 ft.

EXISTING STATION REQUESTS AND GRANTS

\*KCEL-FM Greeley, CO. gtd \*KUNC-FM KTRE(FM) Lufkin, TX. gtd KLUF  
KTRH-FM Houston, TX. req KLOL-FM KPOK(FM) Portland, OR: req KPOK-FM  
WSAZ(FM) Huntington, WV. req WFAZ KCCR-FM San Antonio, TX. req KFFR(FM)

CHANGES TO EXISTING STATIONS

WWAC(FM) Carrollton, AL. new FM ERP 30 kw. , AAT 360 ft.  
KPEN(FM) Los Altos, CA. AAT to minus 175 ft., ERP 3 kw.  
KRKD-FM Los Angeles, CA new xmtr to be installed, AAT to 480 ft.  
KBBL(FM) Riverside, CA. ERP to 49 kw., xmtr change(type)  
\*KLLU(FM) Riverside, CA. new educ. FM ERP 1.40 kw. , AAT 73 ft.  
WEUS(FM) Miami beach, FL. ERP to 45 kw. AAT 170 ft.  
WVTL(FM) Monticello, ID. ERP to 3 kw. AAT to 135 ft.  
WHIC-FM Hardinsburg, KY. xmtr site chge, AAT dec. to 290. ft from 300 ft.  
WCOP-FM Boston, MA. AAT to 500 ft.  
KFMU(FM) Kansas City, MO. ERP to 77Kw. AAT to 390 ft.  
WKER-FM Manchester, NH. ERP to 10.5 kw. AAT to 930 ft.  
\*WRPI(FM) Troy, NY. ERP to 10 kw. AAT to 370 ft.  
KHEN-FM Henryetta, OK. ERP to 28.5 kw.  
WPRM-FM San Juan, PR xmtr location chge., ERP to 25 kw. , AAT to 1800 ft.  
WLBG-FM Laurens, SC install aux. ant., ERP to 3.2 kw. , AAT to 320 ft.  
WRVC(FM) Norfolk, VA. ERP to 14.5 kw.  
KACA(FM) Prosser, WN. chge ant. height to minus 275 ft.  
WLVE(FM) Baraboo, WI. ERP to 37 kw. AAT to 1300 ft.  
KUZZ-FM Bakersfield, CA. xmtr location chge, ERP to 4.3 kw. AAT to 1340 ft.  
WXRT(FM) Chicago, IL. xmtr and studio location chge, ERP to 50 kw, AAT to 500 ft.  
\*WSIE(FM) Edwardsville, IL. xmtr location chge,  
\*WMMR(FM) Marquette, MI. xmtr and studio location chge, ERP to 320 W.  
\*KBSB(FM) Bemidji, MN. granted license for new educational FM  
KIVE(FM) Glendive, MT. ERP to 100 kw.  
KWHG(FM) Lincoln, NB. AAT to 125 ft.  
\*WQFS(FM) Greensboro, NC. granted license for new educational FM  
KORE-FM Springfield-Eugene, OR. ERP to 2.6 kw. AAT to 81 ft.  
\*KSTI(FM) Springfield, SD granted license for new educational FM  
KIZZ-FM El Paso, TX. ERP to 27 kw. , AAT to 1160 ft.  
KWED-FM Seguin, TX. ERP to 38 kw. , AAT to 130 ft.  
\*KMIH(FM) Mercer Island, WN. granted license for new educational FM  
WDJC(FM) Birmingham, AL. xmtr location chge, ERP to 90 kw horiz., 30 kw. vert. AAT 540 ft  
WJLN(FM) Birmingham, AL. ERP to 100 kw. AAT to 640 ft.  
KFIG(FM) Fresno, CA. ERP to 50 kw., AAT to 310 ft.  
\*KEBS-FM San Diego, CA. install new ant. and xmtr.  
\*WLTI(FM) Lowell, MA. xmtr and studio location chge, ERP to 1.7 kw. AAT to 39 ft.  
WLVI(FM) Hartford, CN. chge studio location, chge type ant.  
WBEM-FM Chicago, IL. xmtr location chge, chge type ant., ERP to 6 kw. AAT 1180 ft.  
WKFM(FM) Chicago, IL. install new ant., AAT to 549 ft.

# Bob's TECH-NOTES

BCB'S TECK NOTES

July 1970

Page One

## DXing THE TRANSLATORS

There are more than 2,200 operating translators in the United States (roughly 1,550 VHF and 650 UHF), and each is a prime target for the alert TV DX enthusiast.

Over the past five years most 'DXing of translators' has been by mobile observations, through the region which the translator served. A few DX'ers have reported limited results as well with UHF (and an occasional VHF), in the 100-150 mile range for the most part.

A translator is a licensed (television) re-broadcast station. To be licensed by the FCC, the station operator must go through the same bureaucratic red tape as the standard TV station operator. Only, the translator (with few exceptions) is NOT licensed to broadcast any of its own programming; merely to repeat (or re-broadcast) the signal which it receives from the station it is licensed to re-broadcast (which may, incidentally, be another translator). In this way, it is very little different than a VHF or UHF satellite station, of which there are many.

The majority of translators are VHF, and they operate with power levels of 1, 5 or 10 watts (with some minor exceptions). On the confines of the 12 VHF television channels, this is NOT very much power, and as you might suspect, these flea powered transmitters don't stand much of a chance against the 100 to 316 kilowatt VHF standard broadcast stations on their channels. These units serve regions of up to ten miles from their transmitting sites, usually with directional transmitting antennas that cover just the region they wish served. With very good tropo, it is possible to log high band translators up to perhaps 100 miles away, provided the channel is clear of any other signals. And, in very intense Es openings, it should be possible to log low band translators over standard Es distances ... again, provided the channel is clear.

UHF translators are licensed to operate with transmitter powers of 10, 20 or 100 watts (with a few exceptions, again). However, their actual radiated power is multiplied by the use of directional, moderate to high gain transmitting antennas, and may reach as much as 3-4 kilowatts in the favored direction(s). (On the other hand, if your receiving location is off-to-the-side of the antenna's directional pattern, you may be receiving the benefit of only a couple of watts!).

The UHF translators are normally licensed to operate from channels 70 to 83 (a few notable exceptions are K18AA in Salina, Kansas; W49AA in Peoria, etc.). This means that the channel 70-83 stations are essentially free of any co-channel interference from other more powerful transmitters (such as million watt-plus regular UHF), and any co-channel you have is between two or more translators on the same channel.

The main mode of translator DX is tropo, ie. tropospheric bending. Fortunately, with many forms of tropo DX, the DX conditions actually improve the higher up we go in frequency (channel). And this means that during a tropo opening, the top UHF channels (where the translators are) will be propagating better than the lower UHF channels, or the high or low band VHF signals. This is a plus, since with the relatively low power of the translators, they need all of the help that they can get!

On the receiving end of the line, most UHF DXing type antennas (especially the 5-7 foot parabolic antennas) work their best at the top end of the band ... again, where the translator action is. On the opposite side of the ledger, your UHF converter, your transmission line and (if you have one) your UHF pre-amplifier work their worst (if at all) in this region.

An example of the really plus benefit of added antenna gain can be found with the 7 foot parabolic as an example. This antenna has a measured forward gain of 21-22 db at channel 70. To achieve this much gain at channel 2, for example, would require that you erect an antenna system using 16 or more ten element channel 2 yagis!

Just how far translators (UHF) can be logged during tropo openings has yet to be determined. My experience here in Oklahoma suggests that 600 mile loggings of these little 100 watt transmitters is not impossible, since a couple have been logged in that range, and many have been logged in the 400-600 mile category. Not knowing where I am on the respective antenna transmitting patterns, it is difficult to estimate just what type of radiated power might have been coming my way. However, based upon the 100 watt transmitter power, it figures out to 5-6 miles per watt of power .... which is very decent at channel 70 and higher.

#### BASIC TRANSLATOR LOGGING PROBLEMS

Because translators operate un-attended, they do not 'cut' to a local slide or ID at station breaks. All ARF required to identify twice per hour, which is accomplished a variety of ways, using morse code. Even if you can read the morse, your chances are deciphering the call letters are remote, since often the video is keyed with streaks or pulses and with any snow or noise at all, you can't separate the pulses from the snow/noise. So, it remains for you to use logic and the best information available to help you 'identify' the translator sources.

The only reference book in the field worth discussing is the annual TV FACTBOOK; at around \$25. a pop. This includes a master listing of all translators with construction permits or licenses at the time of preparation; plus the call letters, power levels, and, the station which they are licensed to re-broadcast. This gives us something to work with, because the mathematical odds let us eliminate channels in the wrong antenna headings, even when the same originating station is being repeated by two translators on the same channel in the same general region. For example, from my Oklahoma City location, I know that only one translator repeats KTVH-12, on channel XX 70, from a due north (0 degree) antenna heading; and that is K70FK in Arkansas City, Kansas.

So the major clues to guide us in translator identifications are:

- (1) Antenna heading (a closely calibrated rotor and a sharp antenna are a must, unless you like to guess!)
- (2) Channel you are tuned to (more about this shortly)
- (3) Station which is being repeated (more also later)

Most UHF converters or UHF tuners are not very well calibrated on the 'top' end of the band. This causes some bad problems until you have an



opportunity to calibrate the dial yourself, using either a conversion chart or a marking pen (on your UHF converter), or thin tape strips to mark each of the 14 channels from 70 thru 83. Even then, with dial slippage, you may have it right one time and not right the next. I use K7OEK as my calibration point whenever I question what channel I am on, since its 100 mile signal is virtually always seen here. The point is that when you have a station or two pinned down, you can use these as calibration points for the other channels.

The station being repeated is usually the one that is supposed to be repeated, but this is not always the case.

Remember that you are receiving the distant translator DX because very unusual tropo conditions exist. The translators are located in areas where television reception is poor, and this makes the translators input channel very susceptible to co-channel interference from other stations on the same input channel. If the tropo opening is quite good, you will usually see co-channel QRM on the signal, which is actually appearing on the input signal just as it comes off the air. Both the intended input station plus the CCI from one or more co-channel stations is repeated by the translator; it repeats anything fed into it. On occasion, the intended input station signal is 'covered' by another co-channel input station, and you receive not the intended station through the translator, but another station; sort of DXing the DX, through the translator! (An example of this was my reception of a translator in Dubuque, Iowa which is licensed to repeat KWVL-7. However, KHQA-7 was so strong at the translator input that instead of KWVL I saw KHQA.)

If you are using a parabolic dish antenna, it's receiving beam pattern is razor sharp on the translator channels. You can easily separate translator stations on the same channel, even if they are only ten degrees apart in antenna heading. This helps, because with a master check list of the translators on the air, you can sweep a region (by rotating the antenna back and forth) on a single channel (such as 70, and count off the stations coming through as the parabolic dish swings through the headings.

It may be tempting, but what you count is NCT the input station to the translator, but the translator itself. (It is tempting to count the input station, especially when it is one that you have not seen directly off the air!) The translators have call letters, and they are licensed like any other FCC controlled TV station. You count them for what they are ... (low power) UHF television stations.

Certain areas of the country have very high translator populations. The mountain states and the plains states lead the way, with many also operating along the Appalachian chain and east to the eastern seaboard.

And, because UHF translators are often in an area with no regular UHF activity, they provide a service in telling the DX'er that there are unusual tropo conditions into that region. For example, west of Oklahoma City, in the Texas panhandle, there are no regular UHF stations. But there are 30 or so UHF translators, and often they come through when otherwise I would not be aware that the 'band was open for tropo DX'.

300-700 mile variety, in the early morning and late evening periods; this often happens when other conditions look quite normal and may bring in just one or a handful of stations, due to the ducting nature of this part of the year's tropo conditions. If you are equipped to DX both FM and UHF, and you discover a ducting condition at FM, look for UHF stations in the same direction on UHF. If your UHF receiving set-up is sensitive enough, they will be there!

### METEORS

The major meteor season is here. For the next sixty days those who dream of adding new states to FM, their first high band MS loggings, or merely filling in awkward distances on low band VHF, will have their hands full. In addition to the showers, there are MANY mornings with above average meteor burst counts, as we shall see.

<u>Dates</u>	<u>Shower Name</u>	<u>Best N/S</u>	<u>Best NW/SE</u>	<u>Best E/W</u>	<u>Best SW/NE</u>
June 30- July 2	<u>Taurids</u> *	0700-0900 1300-1500	1130-1300	1030-1130	0900-1030
July 14	<u>Cygnids</u>	None	2100-2330	0130	0330-0600
July 18- 30	<u>Capricornids</u>	None	0100-0200	2300-0100	2200-2300
July 26- 31	<u>Aquarids</u> *	None	0300-0500	0100-0300	0000-0100
July 27- Aug. 14	<u>Perseids</u> **	None	2330-0300	0300-0800	0800-1130
Aug. 10- 20	<u>Cygnids</u>	None	1700-1930	2130	2330-0200

Major showers are starred (\*). The annual SUPER SHOWER, the Perseids, deserves special mention. Although it begins in July, it peaks late in the period; usually between the 10th and 14th, with the evening of the 11th and 12th, and mornings of the 12th and 13th most likely to peak out. This is one shower that you do not want to miss!

Random mornings showing above average meteor burst counts are many in this period, and include: July 5 (count 26); 9 (count 32); 14 (count 35); 16 (count 24); 22 (count 33); 24 (count 36); 25 (count 31); 26 (count 34); 27 (count 24); 28 (count 28); 30 (count 29) and 31 (count 30).

In August, August 1 (count 37); 2 (count 32); 4 (count 32), 8 (count 35); 9 (count 33); 10 (count 42); 11 (count 66); 12 (count 39); 13 (count 32); 14 (count 29).

Any dates with counts over 30 are in the shower category, and should produce high band (channels 7-9 anyhow) meteor scatter for those equipped for this type of DX. For any TV DX'ers and all FM DX'ers with average or better equipment, the whole period promises to be exciting in the 0500-0700 time periods.

73, Bob Cooper, Jr.

# PROPAGATION

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\* PREDICTIONS OF DX CONDITIONS THROUGH AUGUST 15 \*

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E SKIP

July E skip openings are a mixture of July only type openings and (less frequently) the intense type June openings.

The typical July-type of opening starts slowly, builds slowly, has less fading, than June (early season) openings, and fades out more slowly.

There are no 'best' times for any July openings; the 0700-0800 period, 1100-1300 period, 1400-1500 period and the 2200-0000 periods all produce some openings. The main stay remains the 1600-2000 period, as with June and other times of the year.

June-type (intense) openings that do occur in July tend to be real swingers. You might walk out on a slow fading, weak signal July type of opening, and not live to regret it, but if you run into an intense, channel 2-6 plus FM opening, stick with it because it will be a dandy!

In past years, there have been so many good July dates that it is difficult to pin point any dates to be especially close to. However, the period around July 24-30 almost always produces at least one good end-of-season June type of intense opening, so watch for it.

July is good for long haul single hop (1200-1500 miles) stations, and often you will have just one channel 2 or 3 station in this extreme long range area on the band for the entire opening. July is also good for Puerto Rico on double hop Eskip, and coast to coast double hop Es on channels 2-4. The last half of July is also a time when isolated reports of double and triple hop Eskip to northern South America have been reported by DX'ers through the years.

The first half of August marks the end of the Es season for another year, with most openings after August 1st in the 0800-1000 and 1500-1900 time periods.

TROPO

July can be one of the best tropo months of the year; it will depend upon how the weather front lines stabilize. One of the peculiar things about July tropo is the ducting situation; where you may receive stations up to 1,000 miles distant in a narrow band or single direction from your location. In situations like this stations in the 100-300 mile range may be normal or even below normal, but stations 2,3 or 4 times as far away (high band and UHF) are strong and clear.

Again, watch the early morning and mid-evening periods for signs of improving tropo conditions on the fringe and deep fringe stations, and you won't miss much of what is going on. Whenever you see one or more fringe or deep fringe stations up in level and quality, start looking more closely in the same direction(s) for further out stuff. July and August tend to be especially good months for FM tropo, of the

REVIEW OF Es CONDITIONS

Last month we looked at the Es conditions as recorded through May 15th in Oklahoma City, developing numbers as a method of measuring the quality of the new (1970) summer Es season.

With May complete and June half over, we can now go back and show totals for May 1-31st, June 1-15th versus May 1-15th, and attempt to draw out some numbers for the balance of the summer Es season.

May 1970 (one location only; additional all country totals later)

- (1) Total minutes of TV DX observed for 31 days ..... 5,122
- (2) Total minutes of FM DX observed for 31 days ..... 1,242
- (3) FM percentage of TV (percent of time TV open, FM also open) .... 24 %
- (4) Average length of May (1-31) FM Es opening ..... 88.7 minutes

June 1-15

- (5) Total minutes of TV DX observed for 15 days ..... 3,423
- (6) Total minutes of FM DX observed for 15 days ..... 268
- (7) FM percentage of TV (percent of time TV open, FM also open) .... 08 %
- (8) Average length of June (1-15) FM Es opening ..... 47.0 minutes

During the first 15 days in May (which was also the start of the season), we recorded 1,875 minutes of TV Es and 490 minutes of FM Es. As you can see by comparing with lines (5) and (6) above, May 1-15 was better for FM Es, not as good as June 1-15 for TV Es.

As this is prepared the expected upturn in Es conditions after the 20th or so of June has not materialized. Through mid June and slightly beyond, the quality of both TV and FM Es openings has been -on the average- much poorer than the like period in May. Weak level openings persist for hours at a time, but signals seldom exhibit high signal strength levels or stability; both of which are prerequisites to FM E skip.

The late up-dated outlook for July remains mixed. Based upon the May records (or record May, as you will!), July looks most favorable. However, based upon the first portion of June, it does not look so hot.

We'll stick with our earlier prognostications at this point and point to a general upturn in Es conditions in July, surpassing last July in all quarters and very possibly making it one of the best July's in the past ten years. Particularly attractive are the periods July 1-6; 'around' the 10th, 12th, 20th and the week or so from July 21-22 to 29-30th.

Finally, as an aside, June tropo, while not outstanding, has been (in spots) substantially improved over 1969 in many quarters. The surface air movements this summer are tending to be more 'August-ish' in the north and 'May-ish' in the south. This is producing an interesting mixture of lingering moist air in the south and clear, cool air in the north. If this pattern holds, July should be outstanding!

There has never been a VUD printed translator list, and until a sufficient number of members are chasing translators, there is no reason to prepare one; or include translator news in the monthly FCC news column.

The world of translator DX is relatively new. The key that has unlocked this world for me has been the 7 foot parabolic antenna, and the installation of a top flight UHF receiving system. The next step is for everyone to change their DXing habits. Deliberately tune all the way to the top of the UHF band, when we are sweeping the channels for DX. Find out where your closest UHF translators are located, and make it a point to start checking for them when tropo conditions are above normal. With a seven foot dish 50 feet or more in the air, you should find translators out to 100 miles are duck-soup regular copy every day, provided you are not in a null of their transmitting antenna pattern.

There are around 650 UHF translators up there above channel 69, just waiting to be DXed. How many will you have logged by the end of the year?

#### A REMINDER FOR AUGUST

Just a reminder that the complete how-to-build-it article featured on the cover of the August issue of HAM RADIC magazine will tell you everything you need to know about building up your own INTERDIGITAL PRE-AMPLIFIER for VHF TV DXing.

If you don't have a supply house nearby that has HAM RADIC in stock, write directly to the magazine at Greenville, New Hampshire (see July VUD, TECK NCTES).

Good DX - Bob Cooper, Jr.

LATE HQ

#### RENEWALS DUE IN JULY:

BOB ASTMANN	J. P. TAYLOR	JOHN ROUSE
DON EGGERT	KIPP TAYLOR	E. M. PORTER
JERRY PULICE	RINALDO SWAYNE	DAVE FLOWER
DAVID SHAPIRO	BILL RATLIFF	

#### RENEWALS DUE IN AUGUST:

DICK DANIEL	BOB MALLORY	PAUL RUGINIS
MITCH DONOCK	BOB MCCOY	STAN SAVAGE
BOB GRACE	JOHN PARILLO	PAUL TRASKA
JEFF KADET	KEITH POWERS	SAL ZANGRI
TOM MANN	DON RULAND	

WE HAVE DISCOVERED A COUPLE ERRORS IN THE PRINTING OF THE VUD THIS MONTH AND ARE TRULY SORRY. WHEN WE GET ON AN ORGANIZED EARLY SCHEDULE AGAIN WE CAN VIRTUALLY ELIMINATE SUCH ERRORS, OR REDUCE THEM TO A MINIMUM.

UNLESS RECEIVED IN THE NEXT 48 HOURS, THE FOLLOWING COLUMNS WILL NOT APPEAR THIS MONTH: VHF RADIO, CCI, AND FM DX. THE FIRST TWO EDITORS NOTIFIED HQ WHY THEY WOULD NOT APPEAR: LACK OF REPORTS AND SHORTAGE OF STENCILS. WITH POOR SKIP AND TROPS IN THE MONTH OF JUNE, THIS IS NOT SURPRISING, ALTHO THE REGULAR TV DX EDITORS STILL HAD ENOUGH MATERIAL FORTUNATELY. THE DX SEASON IS COMPARABLE TO LAST YEAR IN MANY AREAS SO ITS QUITE A DISAPPOINTMENT ALL AROUND.

THE ENCLOSED CARD FROM WJIB-FM IN BOSTON, COURTESY OF MEMBER SHELDON SWARTZ WHO IS WORKING ON AN FM STATION LIST FOR THE CLUB, NEED A FEW CORRECTIONS: WBOS-FM IS NOW WBOS; WRKO-FM IS NOW STEREO WROR; AND WGLR-FM HAS CHANGED ITS CALL LETTERS TO WNHS.

PREPARING AN FM STATION LIST IS A VERY BIG TASK AND SHELDON WOULD WELCOME WHATEVER ASSISTANCE OTHER MEMBERS CAN GIVE, NO MATTER HOW SMALL. SO WRITE HIM AT Box 56, SHARON, MASS. 02067.

VHF radio

Pat Dyer  
327 Solar Drive  
San Antonio, Texas 78227  
Deadline: 15th of month

JULY 1970

Before I took this column I was advised that the contributions to it would be low. That was almost an understatement.

Perhaps DXing the VHF pagers is too easy, not enough challenge with them IDing every 15 seconds. I admit the messages (when they have them) are not the most exciting or entertaining either. I'm just a propagation nut so I simply view them as MUF indicators.

I know that more of you have 30-50 equipment out there than are sending in reports. If you do get some DX, send it in. I've got plenty of room for it in the column.

I meant to include the following information in last month's column but ran out of space. If you are interested in regional directories of VHF stations (business, public safety, etc.) Communications Research Bureau, P.O. Box 56, Commack, NY, 11725 has a huge variety. Drop them a line for a list of the various ones they sell. The usual price is around a dollar or two.

My apologies for the quality of the May VUD column. It had been some time since I had cut any stencils.

Robert Cooper, 6221 Norman Road, Oklahoma City, OK 73122  
sent along some nice Es loggings of the 43-MHz pagers. (CDST used)

- |                                  |                              |
|----------------------------------|------------------------------|
| <u>May 11:</u> 0950, KIG 300     | <u>May 17:</u> 0709, KIE 367 |
| KGA 804                          | <u>May 18:</u> 1002, KQC 881 |
| <u>May 12:</u> 0900, KOE 257     | <u>May 21:</u> 0823, KQC 881 |
| 1307, KQC 881                    | KOE 257                      |
| <u>May 13:</u> 1723, Mexico City | 0936, Pittsburgh             |
| 1943, KGA 804                    | <u>May 23:</u> 2020, KGA 804 |
| Pittsburgh                       | <u>May 29:</u> 1653, KIE 367 |
| <u>May 16:</u> 1002, Mexico City | <u>May 30:</u> 0810, KIE 367 |
| 1210, KOE 257                    | 1805, KIF 653                |
| 1600, KQC 881                    | <u>May 31:</u> 0820, KIE 367 |
| 2200, KIG 300                    |                              |

Ferdinand Dombrowski, 1311 West Madison Street, Apt. 11, Milwaukee, WI 53204 also managed to get some of the Es of late with an Allied A 2589 and a TV conical antenna. (CDST used)

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|------------------------------------|------------------------------|
| <u>May 16:</u> 1642, Oklahoma City | <u>Jun 8:</u> 2005, KIY 508  |
| 1920, KIY 508                      | <u>Jun 11:</u> 1550, KGC 223 |
| <u>May 30:</u> 1355, KIY 508       | 1555, Oklahoma City          |
| 1405, KIG 667                      | 1745, KIY 508                |
| 2130, KKI 445                      | 1755, KCC 266                |
| <u>May 31:</u> 1407, KIY 508       | 1845, KGC 223 (43; new)      |
| <u>Jun 1:</u> 2013, KIY 508        | 1935, KIE 367 (new)          |
| <u>Jun 3:</u> 1850, KKI 445        | 1944, KIG 300                |
| <u>Jun 4:</u> 2000, KIY 508        | 2120, KIF 653                |

Now for my own log. For 30-50 MHz an Allied A-2586 with its built-in whip and 30 feet of indoor random wire are used. For 50 MHz a Swan 250 with a Swan NS-1 noise silencer and a 3-element Cushcraft horizontal beam at 20 feet. All reception via Es unless noted otherwise. 50-MHz Es deleted. CST used.

<u>May 20:</u>	1910, ZK1AA (F2)	<u>Jun 4:</u>	1130, KDN 492
<u>May 21:</u>	0730, KIM 905		KSC 645
	0825, Long Beach		1310, WWA 335 (F2)
	1200, KMA 829		2005, Long Beach
	1945, KIY 508	<u>Jun 5:</u>	0845, KIY 508
	2130, KIE 367		0950, KIF 650
<u>May 23:</u>	1010, Long Beach		1125, KIF 653
<u>May 25:</u>	0340, KAI 927 (new)		1250, KAD 931
	0805, Long Beach		KSC 645
	1855, KIY 508		1920, Long Beach
<u>May 26:</u>	2350, KAI 927		2040, KOE 257
<u>May 27:</u>	1903, KFL 936	<u>Jun 6:</u>	1805, KIY 508
	1915, Long Beach	<u>Jun 7:</u>	1600, Long Beach
	1925, KMA 829		1635, KIY 508
<u>May 28:</u>	1150, KFJ 921 (new)		1705, KSC 645
	1153, KIY 508		1720, WWA 335 (F2)
	1210, Long Beach		1930, KIM 905
	1230, KMA 829	<u>Jun 9:</u>	0350, KAD 931
<u>May 29:</u>	1010, KIY 508		1205, KIY 508
	1245, KIM 905		1210, KIN 645
	1735, Long Beach		KFJ 891
	1740, KMA 829		1700, Long Beach
	2015, KSC 645		1840, KSC 645
	2055, KFL 936	<u>Jun 11:</u>	1255, KSC 645
<u>May 30:</u>	0650, KIM 905		1315, KQD 697 (new)
	0720, KSC 645		2025, KIY 508
	1230, KIY 508	<u>Jun 12:</u>	1130, KDN 492
	1340, KIE 367		1140, KIY 508
	KIF 650		1145, Long Beach
<u>May 31:</u>	0210, KAD 931	<u>Jun 13:</u>	0720, KIY 508
	0725, KIM 905		1020, Long Beach
	1115, Long Beach		1310, KIF 650
	1340, KIY 508		1345, KFL 936
	1435, KIE 367	<u>Jun 14:</u>	1125, Oklahoma City
	1540, KIF 650	<u>Jun 15:</u>	0920, KIM 905
	1710, KIF 653		0930, KIY 508
	2050, KMA 829		1000, KIG 844 (new)
	2310, Oklahoma City	<u>Jun 16:</u>	1740, KIY 508
<u>Jun 1:</u>	1040, KIY 508		1805, KIF 650
	1830, KIM 905		1810, KIM 905
<u>Jun 2:</u>	1120, KIY 508		1835, KIG 300
	KAD 931		2010, KSC 645
	1140, KIF 650		2015, KIY 510
<u>Jun 3:</u>	1140, KSC 645		KIF 653
	1735, KIM 905		2115, KAD 931
	1745, KFJ 891 (new)		2145, KDN 492

<u>Jun 17:</u> 1110, KFL 936	<u>Jun 23:</u> 0755, Pittsburgh
1720, KIM 905	0800, KIF 650
1835, Long Beach	0815, KIY 508
<u>Jun 18:</u> 1125, KIY 508	0910, KIE 367
<u>Jun 19:</u> 1215, KIY 508	1015, KIF 651
1235, Long Beach	1050, KIN 645
1320, KIE 367	2030, KAD 931
1520, KIG 300	2100, KSC 645
1550, KIF 650	2215, Oklahoma City
KIF 653	2240, KIM 905
1755, KSC 644	2250, KDN 492
1820, KSC 645	<u>Jun 24:</u> 0000, KSC 645
<u>Jun 20:</u> 0125, KAD 931	0935, KQC 881
1255, KIY 508	1010, KIY 508
<u>Jun 21:</u> 1930, KIM 905	1015, KSC 644
2040, KIY 508	1250, Long Beach
<u>Jun 22:</u> 0840, KIQ 999 (new)	1710, KIF 650
1230, KMA 829	1955, KAD 931
1300, KSC 645	<u>Jun 25:</u> 1745, KIF 650
<u>Jun 23:</u> 0725, KIF 653	1810, KIY 508
0735, KIG 300	1930, KIE 367
0750, KIQ 999	

KAD 931	35.58	Kansas City, MO	KIY 508	35.22	Orlando, FL
KGC 266	35.58	Springfield, MA	KKI 445	35.58	Houston, TX
KGA 804	43.58	Philadelphia, PA	KMA 829	35.58	California
KGC 223	35.22	"	KOE 257	43.58	Phoenix, AZ
	43.22	"	KQC 881	43.58	Cleveland, OH
KIE 367	43.58	Miami, FL	KSC 644	43.58	Chicago, IL
KIF 650	35.58	Birmingham, AL	KSC 645	35.58	Chicago, IL
KIF 651	35.58	Ft. Lauderdale, FL	WWA 335	35.22	San Juan, PR
KIF 653	43.58	Memphis, TN	-	35.58	Long Beach, CA
KIG 300	43.58	Atlanta, GA	-	43.57	Mexico City
KIG 844	35.58	Augusta, GA	-	35.58	Oklahoma City, OK
KIM 905	35.22	Charlotte, NC	-	43.58	Pittsburgh, PA
KIN 645	35.22	Miami, FL	ZK1AA	50.10	Cook Island
KIQ 510	35.58	Jacksonville, FL			

KAI 927, KDN 492, KFJ 891, KFJ 921, KFL 936, KIN 645, KIQ 999, KMA 829, and KQD 697 are all 35 MHz region stations which ID by Morse code tone (A2). The ID often runs "QRA DE ---" and is sent three times. KIG 999 earlier reported may have been KIQ 999 with tape troubles. ZK1AA runs a c.w. (A1) beacon. KIF 650 was listed incorrectly before as KIF 663.

Well, that's how 30-50 has been lately. The Es season is about past the midpoint but there should be plenty of it on up to the time F2 returns. Some days in June the F2 MUF has been up to 42 MHz into South America. The sun spot cycle hasn't died yet, and the fall and winter should supply ample F2 across the US up to near 40 MHz. Next spring will most likely be the last for years for 50-MHz F2 DX.





TIPS & TECHNIQUES, PART II, INEXPENSIVE SIGNAL  
NEED FOR SIGNAL STRENGTH INDICATION

INDICATIONS

Not DXers at least once must have said, "Gee, that station is strong. It must be X times as strong as usual."

The ability to tell, at least comparatively, differences in signal strengths seems well worthwhile. Let's list just a few benefits.

(1) Curiosity. Even for the nontechnical, it would seem quite interesting knowing just how much stronger, for example, a semilocal becomes during improved conditions. Or, it might be interesting noting how much stronger a station became during an opening compared to the same station logged by a nearby DXer.

(2) Tell how fast an opening is building up, or decaying, by using fringe stations in various directions as indicators.

(3) Record daily signal strengths of locals and semilocals.

All of us are aware of increased tropic reception in the warmer months. Recording this info during normal and DX conditions might prove interesting. It might be possible to evaluate conditions on a day-to-day, month-to-month basis, from one season to the next. You might more clearly see which paths are most likely to open under certain conditions.

NOTE: Some may not be too thrilled with the idea of reading signal strength via a meter because one can see signal difference on the tube. However, I doubt if more than a few DXers realize what a 6 DB increase (twice the voltage) looks like. In fact, a 10 times voltage gain (20 db) of a strong signal might seem minor, but a 6 db improvement in a weak signal might just be enough for an ID. Also, it is next to impossible remembering signal levels from day to day. Something to hang your hat on, a number, is necessary.

(4) Detect amplifier (amp) malfunction. Any amplifying device, especially tube type, can "run down". If this occurs slowly and you aren't aware of it, you could be running with a less than efficient TV rf amp or a half-dead mast mounted amp. The strong locals, of course, will not seem affected. Periodic signal strength checks should create suspicion of such problems.

(5) Equipment evaluation and checks. Antenna comparison is easy if you know how to translate signal strength readings into meaningful data. (This will be discussed later when we combine meters, attenuators, etc. and "calibrate" our meter.) Also, amplifier gain, filtering, trap loss, or equipment insertion loss can be easily checked. Gain, F/B ratio, and directivity of antennas can be at least roughly measured by using the techniques described in this series.

(6) Adjust DXing aids for optimum performance. Some DXers might have no interest in the topics mentioned above. They may, however, use selective tunable traps like the CM and Jerrold types. Without a signal meter to see what's happening, you might be missing several db of attenuation, and that just might be enough to miss a weak adjacent channel ID. In fact, I have tuned the Jerrold's by watching the TV screen only, then returned with a signal strength meter, and the difference was as much as 6 to 8 db. Also, if you buy or build the IPA mentioned last month by Bob Cooper, you will find it impossible to realize repetitive maximum gain and filtering unless you have some signal indication. (This should not discourage anyone from obtaining an IPA; it can be a worthwhile DXing device. However, I want to emphasize that most truly good -- that is, selective -- tunable traps, filters, or amplifiers, require extreme care in tuning, care that often cannot be obtained by eye. I would fall about 3 db short of maximum IPA gain under some conditions if tuning without a meter, even with the IPA calibrated. Of course, using Varactors and associated components to tune would simplify this, but that's an added cost.)

#### METHODS

The professional field strength meter (FSM) simply measures in microvolts a select signal. A microvolt is one-millionth of a volt (0.000001). As you might expect a FSM is quite costly, probably ranging from a few hundred to several hundred dollars. It's great if you have one, or use one constantly in your work, but otherwise hardly worth the cost.

Several articles have been written describing construction of signal strength meters (S-meters) for connection into some part of your receiver. Many of these S-meters have some disadvantages and limitations, but it may be worth the cost. (Cost may vary from a few dollars to \$20 depending upon the type, availability of junk box parts, etc.)

I now have two or three articles of this type in my library of magazines, books, etc. If anyone is interested, I'll try to locate these articles.

For those DXers who have certain volt-ohm-milliammeters (VOM's) or any type of VTVM, signal indication is just a matter of connecting into the correct circuit. Signal strength reading can be made at a few points in a TV, but the AGC circuit is most convenient. In fact, most construction type S-meters connect into the AGC line.

### SIGNAL STRENGTH DETECTION VIA AGC LINE

Every TV receiver has an AGC (automatic gain control) circuit. Although circuits vary, all have one thing in common: They automatically sense input signal level and control the RF and IF amplifier gain.

Basically, AGC action is much like a tetter-totter. A 200 pounder on one end of a center balanced tetter will not get off the ground with a 100 pounder on the other end. Similarly, a weak signal may not be seen unless all amplifiers are told to amplify. But if amplifiers were operated full gain, they would overload when strong signals arrive. The AGC provides the adjustable gain necessary for all conditions by supplying a varying d-c voltage to the bias circuits. For any value of input, therefore, a given AGC voltage is fed to the amplifiers. Normally, one voltage range feeds the RF amplifier, another range feeds the IF.

You can read AGC voltage conveniently (usually) at the tuner itself. Most tuners have a terminal block or lug strip that accepts wires for B+, heaters, and AGC. Some tuner manufacturers used the following color code: White = AGC, black = heater voltage, red = B+. This probably was not a universal code, however.

If you have a VOM or VTVM, you can easily determine B+, heater voltage, etc. and isolate the AGC line. When you connect from AGC to ground, you should see a varying low d-c voltage when antenna is rotated. Or, you should see a voltage change from strong and weak signal.

Range of AGC voltage will vary. With no signal received, RF amp will be fully on; with strong signal, amp will be nearly off. However, tube type RF amps are often biased so that they need an AGC voltage of changing polarity to control adequately over the range needed. Typically, the AGC voltage might be + 0.5 volts with a blank channel monitored (full gain). As signal received increases, voltage goes toward 0. A stronger signal causes -0.1, -0.2, etc. readings. You must change meter polarity when you pass through the zero point. My Zenith's AGC range is from about +.6 to -7.0 volts. Ranges will differ with individual design.

NOTE: For the technically curious, reason for the "dual polarity" AGC action is quite simple. A tube RF amplifier without an external bias voltage in the popular grounded cathode circuit will have some negative potential (usually less than a volt) on its grid. This is because of the so-called "contact bias" due to diode action between grid to cathode. Consequently, a tube so connected is almost fully on because it is almost biased for maximum gain, the only thing preventing maximum gain being that small diode drop. A small positive signal, however, slightly less than the small "contact bias", will buck the diode drop and cause a total bias that makes the tube full on. At one value of received signal, the AGC voltage is zero, and the tube operates entirely on "diode drop". As received signal increases, of course, a negative AGC voltage is added to the negative diode drop to turn the tube more off.

### USEABLE METERS

Any VTVM (vacuum tube voltmeter) will work fine because it has a very large input impedance. That means connecting it into a circuit for measuring voltage does not disturb the actual circuit parameters. A high input impedance VOM (volt-ohm-milliammeter) should work also. However, a low impedance type might disturb the AGC circuit and detract from AGC action. Try it with weak and strong signals and note the difference on the pix tube as meter is connected. If it changes the signal strength very little, it can still be used because you need connect the meter only when you check signal strength. A 20,000 ohm per volt type meter should work fine, but again, much depends upon the component values, circuit time constant, etc.

Next month, part III, S-Meter limitations and uses.

# WESTERN TV DX

Dennis Park Smith  
450 Poplar Avenue  
Wasco, California  
93280 U.S.A.

July 1970

Deadlines: 12th of each month

Please use above summer address;  
mail addressed to Santa Barbara  
will be forwarded, however.

This must be a record. I'm sure I've gotten more reports this month than for any column I've had in any club. More 26-29-April tropo to Oklahoma, though no further outstanding such DX anywhere since. Auroral activity is reported from Iowa 21 April. Of course, the big news is sporadic-E, with openings in this column on these dates in May: 2,5,6,7,9,10,11,12,13,16,17,18,19,21,22,23,25,27,29,30,31; June, so far: 1,2,3,4,5,6,7,10. Es was particularly strong on 9-10-11 May with evidence of high-band skip on 10th, and especially widespread skip on 30-31 May. Many experienced DXers feel that this is a particularly productive season for Es, though some in Iowa have noted a mostly erratic season there. Perhaps it has been strong up to certain latitudes and not as good in more northerly areas.

Glen R. Neal, 1005 N. 5th, Sayre, Oklahoma 73662 (22Apr-11May) (TimesCST;CDT26AprOn)

Equipment: Zenith portable TV, Lafayette indoor amp, Lafayette VHF LVL antenna  
20 feet high, Alliance rotor. Present log total: 171 TV stations.

<u>22</u> Tr 0800 KAKE-10 Wichita, Kansas	Mi: 215	<u>29</u> Tr 0645 KMTV 3 Omaha NB	465
<u>24</u> Tr 0600 WFAA- 8 Dallas, Texas	285	0700 WOW - 6 Omaha NB	465
<u>26</u> Tr 0630 KSLA-12 Shreveport, La.	390	0800 KETV 7 Omaha NB	465
0700 KGIN-11 Grand Island, Nebr.	390	M6 Es, tune-in 2200, ch2 east, until 2215.	
0700 KTBC- 7 Austin TX	370	<u>7</u> Tr 0700 KGNS- 8 Houston TX	460
0615 KHOU-11 Houston TX	460	<u>8</u> Tr 0630 KPRC- 2 Houston TX	460
0615 KTRK 13 Houston TX	460	<u>9</u> Es, t/in 1820, ch 2-6 until 2140.	
0730 KWTX-10 Waco TX	300	1900 CKOS- 3 Yorkton, Sask.	1095
0800 KOMC 8 McCook NB	345	1830 CKX - 5 Brandon, Manitoba	990
0730 KOLN-10 Lincoln NB	420	1850 CHSS- 6 Yorkton, Sask.	1095
0900 KLOE-10 Goodland KS	310	<u>10</u> Es, started 1320, Canada ch2, NNE, died 1440	
Es, tune-in 2155 ch2&3 east, until 2230.		had to leave. Back 1820, ch2-6 til 2230.	
<u>27</u> Tr 0630 KFSA- 5 Ft. Smith, Arkansas	270	1400 WPSX- 3 Clearfield, Penn.	
0550 KMBC- 9 Kansas City, Mo.	385	1400 WBEN- 4 Buffalo, New York	1205
0615 WIBW-13 Topeka KS	340	1830 CBLT 6 Toronto, Ontario	1200
<u>28</u> Tr 0615 KYTV 3 Springfield MO	380	1930 WEWS 5 Cleveland, Ohio	1040
0600 KCMO- 5 Kansas City MO	385	1930 WNEM- 5 Saginaw, Michigan	985
0615 KHQA- 7 Hannibal MO		<u>11</u> Es, t/in 2117, perfect ch 2,3,6, not	
0645 KTTS-10 Springfield MO	380	much 4 & 5, east.	
0700 KODE-12 Joplin MO	320	2115 WFMY- 2 Greensboro, N.C.	1090
2100 WOAI- 4 San Antonio TX	420	<u>12</u> Es, noticed 2210, north, ch 2-5, left	
2100 KENS- 5 San Antonio TX	420	2211, still good.	
2100 KSAT-12 San Antonio TX	420	<u>13</u> Es, t/in 2130, good ch2-5, NNE-NE, gone 2207.	

Whew! And that's just a sampling of the great DX we've been having here in western Oklahoma! April started out fair with a noted improving trend on the 22nd and then the real summertime DX tropo started on the 26 with 5 straight days of reception beyond 400 miles! The Es hadn't been in well, though, until May 9 when it broke loose for the summer! I've ordered a UHF antenna so I'll be DXing on that scene before long, too. Great CX DX to all!

(Excellent summary of conditions, Glen. Thanks for your first report. dps)

Randy Miltier, 882 Pine Ave., San Jose, California 95125 (1970 to 23 May) (Times PST)

Antennas are two Swan low-band stacked and one Finco high-band, feeding 1966 Sylvania b/w set. First Es of season was noted 5/21 1900-2140. I'll have to thank my wife (how many times can you married guys say that!) for catching this opening; this was one of few nights I hadn't checked for skip upon coming home from work; after eating chow I got ready for school, then my wife asked me to fix the TV before I left, she said it was screwed up due to black bars on all the channels....I never did get to school. Ch.3 1905, Dean Martin, Nebraska ads (wasn't KMTV tho'), KTVS Sterling, Colo. Good audio, occasional picture seen. KTVS dominant to 2058 when KRTV 3 Great Falls, Mont. took over, weather-man standing by Montana map; fair-poor; all other Es ch's died

after 2100, KRTV letf 2140. KLNE-3 Lexington, Neb. noted 1937-2005 w/ KTVS. Spanish station also behind KTVS 3, audio only, around 2000 (see CCI column). Ch. 2, KWGN-Denver audio fairly solid 2013-2026, unID video off and on then. Ch. 6, KHPL-TV Hayes Center NB for about 5 minutes, weather & news, good, photos taken. Ch 4 & 5 had things which couldn't make it; KPIX is toughest local to get through, only KORN-TV Mitchell, S.D. in past. Wouldn't anyone like to hear my Spanish unID tape? (info in CCI.)

(Very good, Randy; yours is the only California report of Es this time. dps)

Marvin Garber, Jr., 2539 Kessler Blvd., Lincoln, Nebraska 68502 (16-30May) (Times CDT)

<u>16</u> Es 1438 XHIA- 2 Torreon, Coah.	<u>29</u> Es 2300 KOTI 2 Klamath Falls, Oregon
1730 WTWO 2 Terre Haute, Indiana	2313 KUTV 2 Salt Lake City, Utah
1800 WTTG 5 Washington, D.C.	2330 KVOA- 4 Tucson AZ
1820 KDKA- 2 Pittsburgh, Penn.	<u>30</u> Es 0050 KBOI- 2 Boise, Idaho
1830 WTAE- 4 Pittsburgh PA	0107 KID - 3 Idaho Falls ID
2210 KPRC- 2 Houston, Texas	0147 KOAI 2 Flagstaff AZ
2233 KGBT- 4 Harlingen TX	1300 WJXT 4 Jacksonville, Florida
2238 KRGV- 5 Weslaco TX	1310 WSB - 2 Atlanta, Georgia
2241 KEMS- 5 San Antonio TX	1309 WESH- 2 Daytona Beach FL
2245 KIII 3 Corpus Christi TX	1313 WUSN- 2 Charleston, S. Carolina
<u>23</u> Tr 1300 KODE-12 Joplin, Missouri	1802 WBRZ 2 Baton Rouge, Louisiana
Es 2330 KOAI 2 Flagstaff, Arizona	1800 WWL - 4 New Orleans LA
Present log total: 51, all VHF.	1810 WDSU- 6 New Orleans LA

This is my first WTFDA report and it's about time! Thanks to Msrs. Miltier, Cooper, Dombrowski, and Janowiak for getting me interested and started in the wild pastime of TV DXing! I recently purchased a 1964 Zenith 22" B&W, chassis 16J22, and coupled with my Channel-Master 3610G antenna, it works very well. So far the Es openings seem to come on weekends which is the only time I have for DXing. I hope it keeps up. I hope to be a regular reporter to these pages. 73.

(Welcome, Marv. We will look forward to more Nebraska DX. dps)

Frank E. Aden, Jr., 5805 Flamingo Drive, Boise, Idaho 83704 (May) (Times CDT)

I am a new member, age 16, and have been TV DXing  $\frac{1}{2}$  year. Receiver is Arvin 9" portable with 22-ft-high TV antenna pointed SE. May 21 Tr KCPX-4 Salt Lake City, Utah in with good picture & fair sound at 7 PM; by Es at 9:50 KGNC-4 Amarillo, Texas in with good sound & picture, ending 10:25 PM. May 31 Es WKY-4 Oklahoma City 7:32 PM good-fair, some sound; 8:35 KRLD-4 Dallas, fair, little sound; 8:41 KGNC-4 Amarillo, good picture & sound; 9:02 KTXT-5 Lubbock, good picture & sound; 9 PM ch 5 unID (see CCI column); 9:28 KACB-3 San Angelo, fair, no sound. 73.

(Happy to hear that skip is reaching the Boise area, Frank; write again. dps)

Robert J. Williams, PO Box 151, Blackfoot, Idaho 83221 (12 May- 7 Jun) (Times MDT)

<u>12</u> Es 2117 KQTV 2 St. Joseph, Missouri	(30) (Es) 2020 Unid 5
<u>21</u> Es 1800 KMID- 2 Midland, Texas (photoed)	<u>31</u> Es 1900 KMID- 2 Midland TX
1830 KMID- 2 Midland (photo; VAFI5525)	1940 KGNC- 4 Amarillo TX
1905 KMID- 2 Midland	1952 KWAB 4 Big Spring TX
2000 KTVU 2 Oakland, California	<u>J4</u> Es 2100 KTVI 2 St. Louis MO
<u>29</u> Es 2250 KQTV 2 St. Joseph MO (photo)	2117 KQTV 2 St. Joseph MO
2300 KQTV 2 St. Joseph	2124 KQTV 2 St. Joseph
<u>30</u> Es 0010 Unid 6	2130 KTVI 2 St. Louis
0020 WKY - 4 Oklahoma City OK	6 Es 1835 Unid 2 Also unids 2,4,5,6
0045 WKY - 4 Oklahoma City (photo)	<u>7</u> Tr Unid 11 May be KMVT Twin Falls ID

Last year I got all DX on rabbit ears. I hope to do better this year; I have a 5-element yagi atop the Milmor Hotel and run it into Apt 3 through an indoor booster to my 20" b&w Zenith console. I'm also trying to log ch 3 & 6 DX over semi-locals KID-3 & KTLF 6 with rabbit ears since KTLF is snowy on 2 booster settings, also some snow on KID- with rabbit ears. For photos I use an Agfa Optima 1-A 35mm adjustable camera  $3\frac{1}{4}$  ft from screen. WKY- has been written for confirmation. 73s and lots of DX.

(Good to hear of your recent equipment and DX work, Robert. Good luck. dps)

Fred McCormack, Des Lacs, North Dakota 58733

(1 Apr- 31 May) (Times CDT)

Equipment: Heath Gr-25, Winegard CW-48 'Color Wedge.'

A5 MS 1159 WBAY- 2 Green Bay, Wisconsin	29 Es	2258 KROD- 4 El Paso TX	4433R
9 MS 0656 WKY - 4 Oklahoma City, Okla.		2314 XEJ-(tent.)5 Ciudad Juarez	4433
Es 1300 KBTX- 3 Bryan, Texas VAFI-3235R		2354 KVOA- 4 Tucson, Arizona	4435R
1346 XHBC- 3 Mexicali (color) 4443N	30 Es	0010 KOAI 2 Flagstaff AZ	4435N
1643 KFDX- 3 Wichita Falls TX 3133R		0035 KUAT 6 Tucson AZ	4445N
1657 KRLD- 4 Dallas TX 4344R		0100 KPHO- 5 Phoenix AZ	3335R
1706 KENS- 5 San Antonio TX 4444N		2125 WGR - 2 Buffalo, New York	5545R
1728 WOAI- 4 San Antonio TX 4444N		2127 WBEN- 4 Buffalo NY	4445N
1731 KCEN- 6 Temple TX 4444R		2159 KACB- 3 San Angelo TX	3433R
1830 KJAC- 4 Port Arthur TX 3042N		2230 KGNC- 4 Amarillo TX	1332R
1958 KAUZ- 6 Wichita Falls TX 3333R	31 Tr	0746 KXMD-11 Williston, N.Dak.	3445N
10 Es 1200 WJBK- 2 Detroit, Michigan 3134R	Es	1857 KTVK 3 Phoenix AZ	4444R
28 Tr 0025 CKCK2-6 Willow Bunch, Sask. 3332N		1927 KVOA- 4 Tucson AZ	3335R

(205 miles)

Present log total: 145.

It looks as though 1970 will be a good skip year if my first loggings are any indication. The weekends of 8th and 28th were the only chances I had to DX in May, and they both paid with E skip and new loggings. The tentative XEJ- logging is quite definite but won't be counted because no ID was heard. They had Spanish ad for El Paso store. I was also pleased with the Arizona opening of 30th; for about twenty minutes there were Arizona stations on chs. 2-6, all the low-band stations in the state. I am now using a Winegard CW-48 2-13 antenna. I don't know how good it is, but it certainly is different than the channel-2 yagi which I had been using. It is most apparent in improvement of ch 4 and 6 reception, with meteor bursts being seen fairly often. I hope to do some MS DX'ing if I can get up early enough. 73 & good DX. (Yes, undoubtedly your new antenna is an improvement. Now, how about UHF?..dps)

Bob Cooper, Jr., 6221 Norman Rd., Oklahoma City, Oklahoma 73122 (7May-7Jun) (Times CDT)

A banner season start for E skip in this area. With more than 2,000 minutes of TV Es in the first 15 days of May alone, what remains of the season by the time this is in print should be a ball.

May 7 tropo 0730-0900 KHTV 39 (420 mi), KHFI-42 (350), KTRK 13 (420) and others. 1135 weak Es channel 2, no ID; 1915 ditto.

May 9 Es 1200-1400 weak several directions in & out, ch 2; 1545 XHFM-2; 1657 WUSN-2; 1800-2305 KDX-2; KRTV 3, CKCK2-6 Willow Bunch, Sask., CKCK-2, CBWFT 3, CKOS-3, CHSS-6 Wynard, Sask. (680 watts?), KOOK-2.

May 10 tropo 0615-0830 excellent to 300 mi, KGNC-4, WDAF-4, KRLD-4, KMID-2 (335), others. 1010 WCBS-2 and very heavy Es QRM through 1130, spent most of the time on FM; 1435 CKCK-2; 1637 CFRN-3 Edmonton (1490 mi); 1740-1805 very, very intense Es, I had to leave at 1805 but reports of TV Es until after 2300 were noted locally. There was probably high-band Es on chs. 7-8 around 1900-2100 from here (Okla) into NY/Ont. area.

May 11 tropo 0728 KLNE-3 (350), KHNE-29 (345), KTVC 6, others to 350 mi 'til 0830. Es 1025 weak ch 2 east, no ID; 1228-1249 weak ch 2-3 NW, no ID; 1330 weak ch 2 SE, no ID; 1500 weak ch 2 CBS NW, no ID; 2116-2145 WVAR-2, WSAV-3 and others, strong, heavy fading; 2250-2330 WESH-2.

May 12 Es 2126-2315 NW with violent fading, in and out, chs 2-3, no IDs.

May 13 Es 1755-1846 XEW-2; 1943-2150 NE with KDKA-2, WPSX-3, others; who on ch 3 carries Phillies BB (at Philadelphia)?..this game with Montreal, no ID.

May 16 Es 1134-1230 weak ch 2-3 SE, probable double-hop on ch 2; 1231-1415 KTVK 3, KOAI 2, KORK-3, fair; 1700-2000 N & NE, some of those seen: CKVR-3, WKYC-3, WBAY-2, WJMN 3, CFCL-6, CJIC-2; 2050-2245 W/SW, some of those seen: KNXT 2, XHBC-3, KORK-3.

May 17 Es 1010-1027 fair to SE, WESH-2, WSAV-3, WUSN-2 logged; 1040-1220 fairly good west, NW and lastly N with KOOK-2, KTVU 2, KCRA-3, WBAY-2 and others.

May 19 Es 1157 weak ch 2, E, no ID. Tropo 2200 KCIT-50, good signal.

May 20 tropo 0656 K7ØEK 70, outstanding (where, Bob? dps), 0659 KWVL-7 560mi, fair

May 21 Es 0826-0936 fair mixed, WESH-2, WEDU 3, probable KDKA-2; 1820-2220 good west, NW and briefly SE, KTVN 2, KCRA-3, KOAI 2, WEDU 3, WTHS-2, KNXT 2, KEY-T 3, KORK-3 and others. There should have been double-hop Es from Florida into California - Arizona between 1900 & 2000(+) as we had it from both directions during that period.

May 22 MS 0010 KOAI 2, test pattern, bullseye type, apparently runs after sign-off at 0000 following end of Carson. Es 1838-2044 weak to fair in and out most time, noted KOOK-2, KYUS-3, KUTV 2 and a couple of unID Canadians on ch 2-3.

May 23 Es 2100-2105 WMAR-2, poor; 2157-2250 WGR-2, KDIX-2 and others, fair.

May 25 Es 0945-1100 probable WFMY-2 and WBTB 3, in & out, poor; 2120-2135 KNXT 2 fair; 2214-2230 KDIX-2, good.

May 29 Es 1635-1640 ICR-TV 2 Habana, Cuba on TP, poor. This is old CMAB, I suspect, with new name. They sync (horizontal) to 'right' and have basically gray shadings (ie, contrast levels low, even on TP). Their audio is music with frequent aural IDs as 'first television in Latin America' by woman. 2150-0100 (into 30th) strong Es including KRTV 3, KOOK-2, KTWO-2, KUTV 2, with KREM-2 still in at 0100 when I quit.

May 30 Es. This was first super date of the year, starting really at 2150 on the 29th. Band open here on TV for over 15 hours this date. 0750 WESH- in when I rolled out to start day, they stayed in from Daytona Beach mostly alone until 1030 when things began to happen. 1030-1431 Es began to build and drift to NW, some of those seen included WWAY-3, WUSN-2, WSAV-3, WTVR-6, KYW-3, WMAR-2, KDKA-2 and ICR-TV 2 Habana. 1638-2330+, after brief hiatus, back again, some of those seen: WJBF 6, WSB-2, WESH-2, WBTB 3, WUSN-2, WWAY-3, XHBC-3, KOOK-2, KID-3, etc. Most were outstanding for up to 3 hours solid—very local quality. I quit at 2330 with dial fatigue and KOOK-2 was still rolling through. Between 2030 and 2200 we had it from both east and west and there should have been double hop coast to coast in this period and probably others also.

May 31 Es 1545-2205 slow build-up to local quality of WESH-2, WEDU 3, WPBT 2. WPBT is new share-channel holder of Miami's established WTHS-2; same transmitter, etc just different management and nation's first share-time ETV outlets. I personally count it as WTHS-. WEDU & WPBT in for over 6 hours, local quality! 1850-2220 western opening (note band open to both coasts for long time; someone should have had double hop during this period—in fact, the two coasts were in together on FM Es from 2000-2100 or so, so even FM double-hop Es was likely). Some TV logged: KTVN 2, KCRA-3, WCIX-6 and KTVU 2. Lots of VERY strong signals. (WCIX- note: Spanish programming when seen, even the station break at 2100 (audio); this may be confused as CMQ-6.)

May closed out for me with 33 Es openings on 19 dates, totalling 85 hours and 33 minutes of logged DX via Es. It's a wonder I got anything else accomplished all month!

June 1 Es 1724-2045 NE area including CKVR-3, WJBK-2, WBBM-2, WGR-2, CBFT 2 (1500 mi), and probable WGBH-2.

June 2 Es 0855-1330 same general areas as 1st, only expanded, including CBFT 2, CJIC-2, WBAY-2, WJMN 3, KDAL-3, CKPR-2, KTCA-2, CHCT-2, WMAR-2, WGR-2, KDKA-2, WLW-D 2. I was out of town from 1500 of 2nd through 1500 on 4th, in Washington.

June 4 Es 1500-0115 (on 5th) WMAR-2 (in 1500 to 1930), WPSX-3, CKCK-2, CBWFT 3, KDIX-2, CHCT-2, KOOK-2, KRTV 3 and many others.

June 5 Es 1135-1310 ch 2 unIDed Mexican signing on 1135, plus WESH-2, WUSN-2 and WSB-2; 2015-2310 weak to Mexico with XEW-2 and XEZ-3 logged plus others in and out.

June 6 MS 0618 WMT-2; does anyone know if WTWO 2 runs color bars before sign-on? Es 1317-1340 CKCK-2, good & stable while in; 2005-2022 weak chs 2-3 N/NW, no IDs; 2155-2330 CKCK-2, CKPR-2, KDAL-3 and others.

June 7 MS 0542 WLW-D 2 & WTTV 4; many pings, few bursts this AM, signals generally weak. Es 1258-1437 CBWFT 3, KTCA-2, others in & out, poor; 1656-1710 KDKA-2, poor; 1925-2135 WUSN-2, XHBC-3, others not IDed in and out with mainly poor signals.

The first week in June was definitely 'down' from the better parts of May, but then how much fun would it be if we had May 30-31sts all of the time? 73.

(It might be like a constant candy or ice cream diet, perhaps. dps)

Leslie J. Prus, 1615 Pierre St., Manhattan, Kansas 66502 (Apr-7Jun) (CST; CDT 26Apr on)

Equipment: Sears 10" Model 5000 B&W semiportable, 2-bay conical 35' above ground; installed Apr 1: Winegard RD-300 ant. amp. and Alliance T-45 rotor.

Tr	Freq	Call	Loc	Power	Notes	VAFI Mi.	Time
A5	0055	KOLN-10	Lincoln, Nebr.	4453 120	30 Es 0030	KBOI- 2	Boise, Idaho 4344 1050
	0110	KETV 7	Omaha NB	5455 150		0115 KUTV 2	Salt Lake City 4344 810
	0120	WOW - 6	Omaha NB	3355 150		0150 KCPX- 4	Salt Lake-UT 2333 810
	0135	KMTV 3	Omaha NB	3355 150	" in progress 1145, closed 1415.		
18	1830	KAKE-10	Wichita, Kans.	4455 100		1145 WESH- 2	Daytona Beach 4444 1110
	1830	KARD- 3	Wichita KS	4455 100		1215 WJXT 4	Jacksonville FL 3343 1040

(18) Tr	2000	KTVH	12	Wichita	KS	4455	100	(30) Es	1250	WCIV	4	Charleston	SC	4343	1015
	2130	KOTV	6	Tulsa, Okla.		3353	220		1250	WCSC	5	Charleston	SC	2231	1015
	2200	KTUL	8	Tulsa	OK	3354	220		1355	WWAY	3	Wilmington	NC	2332	1080
27 Tr	0900	KWTV	9	Oklahoma City		3	260		"	in progress	1800			closed	2200-2230.
	0900	KOTV	6	Tulsa	OK	3	220	(4hr+)	1800	WESH	2	Daytona Beach		4333	1110
	0900	KVOO	2	Tulsa	OK	3	220	( " )	1840	WEDU	3	Tampa, Florida		4333	1150
	0930	KTUL	8	Tulsa	OK	3	220		2055	WEAR	3	Pensacola	FL	3333	800
28 Tr	0700	KTUL	8	Tulsa	OK	4	220	31 Es,	in progress	1130				closed	1200w/thunderst.
	0730	KOMU	8	Columbia, Mo.		4	220		1130	WESH	2	Daytona Beach		3233	1110
	0730	KVOO	2	Tulsa	OK	4	220	J1 Es	2030	WUND	2	Columbia	NC	4344	1150
	0730	KWTV	9	Oklahoma City		3	260		2050	WFMY	2	Greensboro	NC	2233	950
	0730	KOTV	6	Tulsa	OK	3	220	2 Es	0945	WUND	2	Columbia	MC	5345	1150
	0730	KPLR	11	St. Louis	MO	54	340		1000	WFMY	2	Greensboro	NC	4224	950
	0730	KOAM	7	Pittsburgh	KS	3	120		1130	WUSN	2	Charleston	NC	4434	1015
	0745	KTTS	10	Springfield	MO	3	220		1830	CKSA	2	Lloydminster, Alta		4344	1150
	0755	KETA	13	Oklahoma City		3	260		1845	CKCK	2	Regina, Sask.		4344	850
	0825	KSWO	7	Lawton	OK	4	320	3 Es	1100	WSB	2	Atlanta, Ga.		4234	770
29 Tr	0000	KWTV	9	Oklahoma City		3	260		1200	WESH	2	Daytona Beach		4334	1110
	0010	KCKT	2	Great Bend	KS	4	120		1245	WEDU	3	Tampa	FL	3234	1150
	0030	WKY	4	Oklahoma City		4	260		1650	WESH	2	Daytona Beach		5455	1110
	0045	KMTV	3	Omaha	NE	5	150		1759	WCBS	2	New York	NY	3233	1200
	0100	WFAA	8	Dallas, Texas		22	440		1800	WBRZ	2	Baton Rouge, La		4233	680
	0100	KTVT	11	Ft. Worth	TX	32	450		1830	WSB	2	Atlanta	GA	4233	770
	0645	KCKT	2	Great Bend	KS	4	120		1930	WSJK	2	Sneedville, Tenn		3112	
	0655	KOMU	8	Columbia	MO	4	220		2030	WJXT	4	Jacksonville	FL	4443	1040
	0655	KODE	12	Joplin	MO	33	180		2100	WEDU	3	Tampa	FL	2212	1150
M8 Tr	0625	KGIN	11	Grand Island	NB	21	150		2125	WGR	2	Buffalo	NY	2223	950
9 Es	2100	KTWO	2	Casper, Wyo.		32	560		2215	CKPR	2	Port Arthur, Ont		3333	740
10 Tr	0900	KMOS	6	Sedalia	MO	2133	180		2230	KREM	2	Spokane, Wash.		4234	1200
	1000	KPLR	11	St. Louis	MO	2143	340	4 Es	1830	WUND	2	Columbia	NC	3233	1150
11 MS	0509	WBBM	2	Chicago, Ill.		2	500		1830	WTAR	3	Norfolk, Va.		4433	1100
Es	2133	WUND	2	Columbia, N.C.		2112	1150								Es complicated by tropo from east.
16 Es	1800	WGR	2	Buffalo, N.Y.		3234	950		2230	KBOI	2	Boise	ID	5444	1050
	1800	WBEN	4	Buffalo	NY	4454	950		2230	KID	3	Idaho Falls	ID	4344	850
	1800	WHEN	5	Syracuse	NY	4454	1100	5 E?	1800	?	2	Latin America		4333	
	1800	WSYR	3	Syracuse	NY	4454	1100								IDed(?) as "TV-TEC", had program "Les Intoclebas" (Spanish "The Untouchables") Any idea what it might be?
18 E?	1624	TGV?	3	Guatemala ?		2033	(720)								
				(see CCI column)											
	Es	1625	XHIA	2	Torreón, Coah.	324	1000	7 Es	0000	CBWFT	3	Winnipeg, Man.		4433	750
30 Es,	opening in progress	0000	closed	0230.					2000	WESH	2	(6th time in a week!)			
	(A lot of good Es there, Les. Check CCI column for Les's tentative Guatemala. dps)														

Pat Dyer, 327 Solar Drive, San Antonio, Texas 78227 (11 May- 8 Jun) (Times CST)

M Eqp: 1968 RCA color TV model GJ721W; Wards 11-element high-low VHF, 15' up, SSE.

11 Es	1629	KUSD	2	Vermillion, S.D.		Mi: 930	(3) Es	1729	WBBM	2	Chicago, Illinois		1050
13 Es	1659	YSR	2	San Salvador, E. Sal.		1200		1759	WMT	2	Cedar Rapids, Iowa		950
16 Es	1129	KTWO	2	Casper, Wyoming		1015	6 Es	0959	WUSN	2	Charleston, S. Car.		1115
	1129	KOTA	3	Rapid City, S. Dak.		1050		1329	KGLO	3	Mason City IA		985
21 Es	0742	KTWO	2	Casper WY		1015		1355	KTCA	2	St. Paul MN		1110
	1625	XHBC	3	Mexicali, B.C., Mex.		1015		1359	KNOP	2	North Platte, Neb.		820
	1829	WSB	2	Atlanta, Georgia		875		1559	KTWO	2	Casper WY		1015
	2059	KWGN	2	Denver, Colorado		800		2029	KNXT	2	Los Angeles, Calif.		1190
	2220	KUTV	2	Salt Lake City, Ut.		1080	7 Tr	2355	unID.	5	Mexico		
22 Es	1759	KDIX	2	Dickinson, N. Dak.		1225	8 Tr	0020	KTRK	13	Houston, Texas		185
25 Es	0759	KTCA	2	St. Paul, Minn.		1110		0020	KHOU	11	Houston TX		185
30 Es	0035	KOTA	3	Rapid City SD		1050		0030	?	4,7,8	Mexico (all XEW net)		
J3 Es	1659	WJBK	2	Detroit, Michigan		1240		0035	XHBR	11	?, Mexico (XEW net)		

The Es season so far has been going very well; the big problem is getting IDs out of all the CCI that most openings seem to have plenty of. May 13 had Es out of Mexico



and other Spanish areas from at least 1500 thru 2100 CST. May 30 logging of KOTA was weird since only their audio was noted over tropo of KIII (150 mi); no trace of video CCI; later May 30 50-MHz had 18-hr. + Es opening. Several openings have provided good quality color signals; in a few instances color has been triggered with otherwise poor video resolution giving brilliant color smears. This reporting period wound up with a host of Mexican tropo again; I got ID from one this time but VUD doesn't have it (nor does Jones or new Jensen list. dps) so I still don't know where in Mexico XHBR is. If trend of Es continues for the rest of summer this might turn out to be a record year. (Very good, Pat. Anyone know where XHBR-TV 11 is? dps)

Don Ruland, 3219 Burnside Drive, San Antonio, Texas 78209 (9 May- 9 Jun) (Times CST)

M9 Es 1630 YSR - 2 San Salvador, El Salvador (31) (Es)	1830 WFMY- 2 Greensboro, N. Carolina
1630 unID 2 Spanish (probably XEW-)	2100 WBTW? 3 Charlotte NC (tent.)
1800 WMT - 2 Cedar Rapids, Iowa	2100 WJBF? 6 Augusta GA (tent.)
1815 KUSD- 2 Vermillion, S. Dakota	2130 WSB - 2 Atlanta GA
16 Es 1800 KGLO- 3 Mason City IA	2210 WUSN- 2 Charleston, S. Carolina
1800 WBBM- 2 Chicago, Illinois	J3 Es 2100 WDCN- 2 Nashville TN
1830 WMT - 2 Cedar Rapids IA	2100 WLW-D 2 Dayton, Ohio
1910 WBAY- 2 Green Bay, Wisconsin	6 Es 2200 WDCN- 2 Nashville TN
17 Es 1100 KGLO- 3 Mason City IA	8 Tr 0700 KTRE- 9 Lufkin, Texas
30 Es 1200 KDKA- 2 Pittsburgh, Penn.	9 Tr 0600 WBAP- 5 Ft. Worth TX
1900 KDKA- 2 Pittsburgh PA	0600 WFAA- 8 Dallas TX
31 Es 0930 WSB - 2 Atlanta, Georgia	0600 KLTW 7 Tyler TX
1800 WDCN- 2 Nashville, Tennessee	Totals: 60 (56 VHF, 4 UHF) with 16 ch2 logged.

(Thanks, Don. Hope your log continues to build in Texas. dps)

Jerry "Dee" Easter, 2426 West 7th, Waterloo, Iowa 50702 (Mar-Apr-May-Jun) (Times CDT)

I've been generally disappointed with conditions this year, with NO decent VHF tropo and only a couple openings on UHF worth much. I've logged only 9 new stations since end of April and 7 of them were UHF; I've discovered that VHF doesn't have to be "hopping" to get interesting UHF activity. I've switched from 10' UHF dish (too much wind-loading) to new 20-element Winegard "color tracker" parabolic yagi with wonderful results; UHF seen to 250 mi on daily basis mainly E & SE. Still using 2-bay Winegard "Super-Interceptor" for VHF. At my request, Winegard Co., Burlington, Iowa sent info on phasing the two and using common mast & preamp; it works beautifully on my 70' tower. Now if there would only be signals worth noting other than what Es manages to crop up. There really hasn't been much; I've had the set on every day at almost all conceivable hours. My wife even scans dials occasionally while I'm at work. (She still thinks TV-DXers are a little daft even though she MARRIED one!) Here are results for 3 mo.:

M4 Tr 0700 KMEG 14 Sioux City IA (verif) Mi 250 (10) (Es)	1730 WJXT 4 Jacksonville, Fla. 1100
5 Tr 0800 WXOW 19 (verif) 150	1800 WKRG- 5 Mobile, Alabama 900
12 LS 1630 WTVO 17 Rockford, Illinois 200	16 Es 1830 WOAI- 4 San Antonio, Texas 900
(Lightning bursts; Bill Heusmann visit)	1855 KIII 3 Corpus Christi TX 1150
28 Tr 1500 WJJY-14 Jacksonville IL 300	1856 KENS- 5 San Antonio TX 900
0800 KUHI-16 Joplin, Mo. (verif) 350	1900 KRIS- 6 Corpus Christi TX 1100
0800 KTSB 27 Topeka, Kans. (verif) 250	1950 KGBT- 4 Harlingen TX 1250
0900 KHNE-29 Hastings, Neb. (verif) 300	2112 XEFB-2 3 Monterrey, NL, Mex. (*)
M9 Es 1630-1900, to SW, too jumbled for IDs.	(& XEH-3 10pm, Mex ch6 for hr, unID)
10 MS 0530 WSyr- 3 Syracuse, New York 800	22 Es 1900 KVOA- 4 Tucson, Arizona 1300
Tr 0725 WMBD-31 Peoria IL 300	30 Es 2215 KPHO- 5 Phoenix AZ (verif) 1300
0730 WJJY-14 Jacksonville IL 300	2230 KTVK 3 Phoenix AZ 1300
0750 WICS 20 Springfield IL (verif) 300	31 Es 0045 KBOI- 2 Boise, Idaho 1350
1015 WEEK-25 Peoria IL 300	0045 KID - 3 Idaho Falls ID 1350
Es 1100 KYW - 3 Philadelphia, Penn. 800	J4 Es KUAT 6 Tucson AZ 1300

Also new: KDUB-TV 40 Dubuque, Iowa on air program testing, no schedule; darn good when I get them, 125 mi. KIIN-TV 12 Iowa City now 31.6kWV 31.6kWA, 1149' tower. Totals now 245 seen, 214 verified by letter or photo. I repeat disappointment; shucks, etc. 73.

(Jerry, (\*) XEFB-TV 3 & XET-TV 6 and XEH AM-FM (1420-93.3) are all in Monterrey; probably XEH was promoted on XEFB-3. You are the first to note better results on UHF yagi instead of dish—usually reverse. I wonder if north had less Es than south? dps)

Bill Heusmann, 2804 Brattleboro, Des Moines, Iowa 50311 (8Apr-10Jun)(CST; CDT 26Apr on)

Even the miserable circumstances under which I DX haven't prevented a little skip from showing up. Those 'circumstances' centre about the ancient 1954 TV I hauled to Des Moines to replace my defunct Sony whose picture tube has now blown, too. After spending a small fortune on tubes for the thing, I still can't get any audio! Fortunately, by the time this appears, I will be in Steger for summer and can face a local-blocked ch 2 (augh!) with at least decent equipment. Latest Des Moines DX:

21	1528, auroral hash ch 3-4 heavy over	(30) Es	1829 KATC	3 LA	(ID, fairly str CCI)	750
	mulled local KØLEW, out apx 2230, no IDs	J2 Es	1100 WUSN-	2 SC	(good, fadey)	
M9	Es 1929 KID - 3 ID (audio ID) Mi apx 950		1200 KROD-	4 TX	(ID, strong, CCI)	950
	1930 KCPX- 4 UT ( " " over local) 950		1200 KGNC-	4 TX	(local Nx, like KROD)	600
	2000 CFRN- 3 Alta (" " o, KID-) 1200		1222 WBRZ	2 LA	(Midday LA, in&out)	800
10	Es 1659 WBTW 3 NC (good, local nx) 800		1244 KBTX-	3 TX	(poor, ID in CCI)	700
	1721 WWAY- 3 NC (fade-up thru WBTW) 950		1330 KATC	3 LA	(good, occa. fade)	
	1731 WCIV 4 SC (str, ID-loc CCI) 950	3 Es	1100 WESH-	2 FL	(ID in CCI)	
	1800 WSAV- 3 GA (loc polit, CCI) 900		1623 CKCK-	2	(tent, break in CTV talk show)	
	1900 WEDU 3 FL (ID, logo recog.) 1100		1630 CKSA-	2 Sask	(VG, occ. fade out)	1030
	2000 WTVY 4 AL (poor A ID, occ. V) 850		1658 WBRZ	2 LA	(into good, soon out)	
11	Es 1600 XEFB- 3 NL (fair, ID prog-prom) 1100		1759 WESH-	2	(again, in & out, weak)	
30	Es 0100 unID 2 (W, MS&weak Es, 2or3 sta's)		1837 unID	2	(concert, to SE)	
	1213 WESH- 2 FL (weak, ID slide) 1100	4 Es	1058 unID	3	(colour bars, S, Ø offset)	
	1823 KPRC- 2 TX (good, loc wx) 850	10 Es	1130 WBLZ-	2 ME	(ID, fair w/CCI)	1250

Sony still in use thru 5/11, explaining existence of audio IDs! 17 new bring Des Moines totals to an earth-shaking 69 and 5 countries.

I don't know if it is poor set-up, a chance to watch clear ch 2 or what, but this year's skip seems to be acting oddly; station often comes up from nowhere, reach decent level for moment, then disappear. Even CKSA-2's very good signal disappeared for apx a minute a couple of times, going out for good as quickly and replaced in opposite direction by WBRZ a few minutes later. Interesting to note that skip is coming in bunches of about 3 days' duration, just as predicted. 73.

(Interesting situation in conditions, Bill. Better luck with gear in Steger. dps)

(And, FLASH, just as I was stencilling this, dateline 16 June:)

Stanly Savage, 101 N. Ladera Vista, Fullerton, California 92631 (Apr)(Times as noted)

I just received confirmation on my reception of the sound channel (50.75 MHz) of WNTV ch. 1 in Wellington, New Zealand. This reception was on April 10 at:

9:45 to 10:18 am NZST, or 1645 to 1718 EST, or  
1345 to 1418 PST, or 2145 to 2218 GMT.

The QSL was accompanied with a letter from Mr. A.S. Chisholm in which he said that while they had previously received reports of reception from Hawaii, and that New Zealanders had received TV from Hawaii, that my report was the first one to be received from the USA on the continent.

My monitoring of the frequency during the spring was very casual and this was the only date that I happened to hear them with good strength, up to S7. I did hear them at weak levels several other times, not good enough for identification as my receiver (Hammarlund SP-600) suffers badly with ignition noise and I live on a heavily travelled street. The receiver also has an AM detector and FM-sound copy is quite difficult.

I also monitored the Australian Channel Ø (zero) sound occasionally at 51.75 MHz but never heard anything on it.

Your write-ups are excellent, and I think all of you chaps who do the work of putting together a dx publication without compensation are to be highly commended for your efforts. Best wishes.

(Congratulations on your logging and confirmation of New Zealand, Stan! The only other US effort to get WNTV was in Feb. 1967, when Bob Cooper in northern California heard what may have been the video on 45.25 MHz; have you heard that or Australia ch. Ø video 46.25? It could have been either F2 or TE skip, I suppose—more likely F2? Thanks very much; we do this because of the enjoyment we get along with the satisfaction of knowing that it helps maintain interest in the hobby. dps)

Best of DX to all

Dennis

FM DX

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

Deadline: 10th of the month

Larry Vogt

8309 Greeley Blvd. Springfield, VA 22152

Rig: Fisher 500 TX. Finco FM4G (6 el) at 40 ft. Times: EDT Never saw my last letter in print, so either it got lost or I'll have two in one issue. This season has been more than ever dreamed of so far for me. I will run through the tropics--locals first. Only new stuff listed as too many repeats in this category. 4/30 WJWS 105.5 South Hill, Va and WSNJ 107.7 Bridgetown, NJ around 2300. 5/1 WCOP 100.7 Boston, WFMZ 100.7 Allentown, Pa., WEEP 107.9 Pittsburgh, WKDN 106.9 Camden, NJ, WNCN 104.3 NYC, WHIM 94.1 Providence, RI, and WNYC 93.9 NYC between 0000-0219. 5/19 brought WICO 94.3 Salisbury, Md. (new stn) and WCHA 95.1 Chambersburg, Pa. around 1213. 5/22 WCCC 106.9 in Hartford, Conn., WVPO 93.5 Stroudsburg, Pa., WLVI 93.7 Hartford in SS, WGH 97.3 Newport News, Va., and WPRB 103.3 in Princeton, NJ between 0019-0230. At 0100 on 5/1 logged WRNA 95.1 and WSOC 103.7 both Charlotte, NC. Top this for unscheduled, not rehearsed lower power DX: 5/23 at 1140 a strange sig. on 89.7 announcing hot dogs and cokes for sale. Turned out to be a wireless mike used w/FM rcvr and amp at a carnival almost a mile from me! Now for the ones we all wait for: 5/10 KJRG 92.3 1832 Newton, KS relog; KJCK 94.5 1834-1849 Jct. City, Ks; KRDO 95.1 1857-1915 Colo. Spgs. Colo state #30 @1485 mi.; KWBE 92.9 1907-1932 Beatrice, Nb State #31; KCUR 89.3 1914-2204 Kansas City, Mo. re-log in/out all eve; KGCC 89.7 2003 Denison, TX re-log; KKEG 92.1 2026-2033 Fayetteville, Ark. ex-KFAY I suppose; KITY 92.9 2045-2046 San Antonio, KLEB 94.3 2146-2150 Golden Meadow, La; KWGS 89.5 2155-2229 Tulsa, Okla. State #32. 5/16 KNEB 94.1 1900-1902 Scottsbluff, NB; KTTT 93.5 Columbus, NB; KICS 93.5 1905-1909 Hastings, NB; KOIL 96.1 1915-1916 Omaha, NB and KFBC 97.9 1925-1933 Cheyenne, Wyo. #33 @1475. 5/31 WHMS 92.1 1425-1440 Haileah, Fla.; WMCF 92.7 1442-1446 Stuart, Fla. 90.5 1405-1532 Cuba, Cy #4. 6/1 KOTN 92.3 2044-2052 Pine Bluff, Ark. The QSLs have started to trickle in. KWGS and any of the three Ark. stns I've logged would make the record 33/33. The Cuban was running the typical show w/people taking turns talking and a bit of mx in between and even an occasional echo for good measure. After 1450 it sounded like a BB game w/Camaguey mentioned. The ID sounded like R. Rebel. Can anyone else who has hrd. them help w/QTH or QSL? Total now at 307 and my log is still growing. I've been fortunate to catch all these openings and I hope others cashed in on them too.

Bill Bens

5575 Spruce Wood Drive Cincinnati, Ohio 45239

Howdy! The month of May has been fantastic here, and I sure hope everybody else cashed in on the goodies. During May I logged 25 new stations, of which 22 were on Es, more than I've ever logged in one month before. Some of the most productive openings occurred on May 10, 16 and 30. (Ed note: same dates in Larry Vogt's above RWWW). DX hilites as follows: 4/21 (AUR) WOI 90.1 IA @ 2059 (510). 5/10 (Es) 1806 KHOW 95.7 CO ex-KMYR w/talk pgm; 1813 KLZ 106.7 w/RR; 1815 KLIR 100.3; 1859 KFTM 101.7 w/whopping \$ signal and ABC nx; 1931 KRDO 95.1 all CO and KCUR 89.3 Mo; 1944 KRBE 104.1 TX promo for Glen Campbell concert in Astrodome and rock; 2033 KCMW 89.3(??RWWW) MO w/rock who IDed for me via my phone request, hi; 2106 KGCC 89.7 TX w/wx; 2141 WFFN 92.5 Key West w/WZIP off. The next opening was on 5/16 and wow! KSTI 88.5 SD (10 WATTS) @1800 w/chicken rock and total info nx. Semi local WMUB 88.5 off due to the campus shutdown. Hi. Then @1802 KUSD 89.9 SD (10 WATTS) w/classical music. Although all the logs I've checked lists both of the above as 10 watts, I still question their low power for the following reasons: 1) both put in a strong signal for over 45'; 2) KSTI is a new stn and may have made last min. changes to their 10w CP; and 3) KUSD was in \$ and I have never hrd of a \$ 10w station. HELP! Next @1815 KRCC 91.5 CO (280w-770BAT) w/rock; 1821 KINT 97.5 El Paso w/"Starline '70"; 1917 Unn KTQM 99.9 NM w/99-fm Love promo; 1934 KPLA 97.3 TX weak. This opening netted me 1) new record Es distance @1320 mi. (cont'd) on KINT; 2) new best Es catch on KSTI or KUSD; and 3) completion of freq. w/89.9.

Bens (Cont'd) Laboring at the dials on 5/30 Es netted 1206 KGBC 106.5 TX w/ABC nx; 1230 KOKE 95.5 TX w/cw (840w); 1703 KEEZ 97.3 TX w/Alamo City wx; 1726 KMFA 89.5 TX asking for contributions; 1729 WFAA 97.9 TX; 1754 KCWM 99.5 TX w/cw asking for requests at 335-KCWM; 1801 KMFM 96.1 TX w/classical mx & YL ID; 1812 KAWA 95.5 TX ex-KEFC w/K-brand cw mx. KAWA was #13 on 95.5 Totals now at 493 all taped IDs and rising. 73. (Good rpt Bill. You give me the willies what w/all that Es stuff. Oh to have a couple of Chicago stations go off the air! RWW)

Dick Clark 4110 Bayview Drive Ft. Lauderdale, Florida 33308 EST

Hi gang. Well DX on FM has picked up this month. I now have everything set up the way it was in Pittsburgh. I must say I am kind of glad that Florida doesn't have many FM stations. First WJHR 96.3 and WMJR 100.7 have started SCA. 5/18 WFYN 92.5 Key West @7:30P quite good, WWCN 92.7 Stuart @7:45P, WNDB 94.5 Daytona Beach @8:30P and WHOO 96.5 Orlando @0030. 5/21 WNFN 94.5 Naples, Fla. weak. 5/19 WKTZ 96.1 Jacksonville @0130 weak and WBRD 103.3 Bradenton @0300 w/Dolly Holiday. 5/25 WOVV 95.5 Ft. Pierce @5:00P RB music, WRMF 98.3 Titusville, Fla @9:15P, WARM 98.7 Ft. Pierce @9:30P weak, WANZ 105.5 Sebring 10P, WSPB Sarasota 106.5 weak @0005 s/off. 5/27 WKPE 104.1 Cocoa Beach 8:30P, WPKM 104.7 Tampa @0430, WMFJ 101.9 Daytona Beach @11P, WRUF 103.7 Gainesville, FL @12:15P. 5/30 WLPL 92.3 Baltimore, Md. @12:15P, WYZZ 92.9 Wilkes-Barre, Pa @12:30, WHDL 95.7 Orleans, NY @12:35, WJAC 95.5 Johnstown, Pa 1PM, CHFI 98.1 Toronto w/SCA @1:15, WDCX 99.5 Buffalo, NY @1:30, WKBN 98.9 Youngstown, Ohio @2:00, WWSW 99.5 w/SCA Pittsburgh @2:15, WROA 95.5 Albany, NY/WLWM 95.5 Nashville @2:30, WVNY 92.9 Burlington, VT. @3PM, WSTW 93.7 Wilmington, Del @3:05, WALL 92.7 Middletown, NY @3:15, WKBR 95.7 Manchester, NH @3:30, WRTI 90.1 Philadelphia, Pa @4PM (700 w), WFUV 90.7 NYC @4:30, WPGC 95.5 Morningside, Md. @4:40. WHML 98.7?? (Can't read the printing clearly Dick RWW) A great ID @4:50P.

Robert H. Baker KHBT radio Humboldt, Iowa 50548

This is to correct error in FM dope for April 1970. Shows Christensen Bc. Co. Humboldt, Iowa call letters as KHET(FM). Correct calls at KHBT. This station, if transmitter is not tied up in truck strike, will be on the air 6-1-70 97.7 MHz ERP 3kw both vert. and horiz. polar. Ant. 300' AAT Xr site at NE corporate limits. Sked 6AM-10PM CDT fulltime multiplex. Tnx Bob.

Mark L. Lewis 224 Honiton Street Downsview, Ontario Canada 475

Last 5/19 we had a fairly good DX opening down to Detroit. Unfortunately my FM antenna setup wasn't together until the next day, but I did fairly well with a 4' hunk of wire. I logged WCAR 92.3, WDEE 93.1; WGPR 107.5 in \$, WJR 96.3, WXYZ 101.1---they are just 2 channels above CHIN which is just about 1 mile from me. WWWW 106.7 \$, I hadn't hrd. them since the old MoR format, WMZK 97.9 just below 420kw CHFI. Also hrd. was the Voice of Wayne State U, but I don't recall the call, or the location, but it was on 103 or 104mc/s. (WDET Mark 101.9 79kw RWW) All of this occurred between 9PM-midnite, when things died off, cx were also good on TV. 5/20 I got my new ant. system partially completed for my FM set and my own room. I have a Channel Master fringe area VHF head (3600 series) mounted atop a 40' tower and turned by a CDE ham rotor. I am running rg59 coax presently, but by next week, I'll be using rg-11U a little less loss on FM and highband TV. As of now, I am unsure where I'll mount my UHF dish---I have an extra rotor, and side of the tower mounting would probably be safer re: icing and wind. 5/23-24 provided some excellent tropo from west again. I worked at CKFM till midnight and on my way home, I could hear that something was better than average when Buffalo FM's were zonking in on my FM car radio. I am told that the opening died @12:15AM, but when I (Cont'd)

Fred McCormack

Des Lacs, North Dakota 58733

I haven't done too much DXing this year as I have been in school most of the time. However, I have hrd. some Es and it looks like it might be a good DX season. I am now using a Heath AR-15 receiver. (Must be nice. Hi. RWW) My loggings for 1970 are as follows (new stns. underlined): By aurora on 5/8 WCAL 89.3 Northfield, MN @1223 and WPBC 101.3 Richfield, MN @1237. Next on 4/4 KIVE 96.5 Glendive, MT @2028 by tropo. On 5/8 I logged WIFX 98.1 Lexington, KY @2246 via MS. On 5/9 marked the first Es opening with the following@ KNTU 88.5 Denton, TX @1736, WIAW 92.1 College Station, TX @1745; KGCC 89.7 Denison, TX @1758; WBAP 96.3 Ft. Worth, TX @1818; KOKE 95.5 Austin, TX @1843; KEEZ 97.3 San Antonio @1856; KLAW 101.5 Lawton, OK @1907; KRBE 104.1 Houston @1910; KJEM 102.7 Oklahoma City @1915; KHBR 102.5 down in Hillsboro, TX @1917; WRR 101.1 Dallas @1920; KNUS 98.7 Dallas @1923; KPFT 90.1 Houston @1956; KWNS 93.1 Pratt, KS @2004, KGAF 94.5 Gainesville, TX @2006 and KITY 92.9 San Antonio @2016 and KBUY 93.9 Ft. Worth @2021. Aurora was noted again on 5/27 w/KEEY 102.1 Minneapolis @1737, KWOA 95.1 Worthington MN @1754 and KWLM 102.5 Willmar, MN @1828. On 5/29 Es tent. KOOL 94.5 in Phoenix @2245, On 5/30 via Es KTAR 98.7 @0054 and tent. KMEO 96.9 TX @2150, both Phoenix. The last logging in May was on 5/31 w/KNIX 102.5 Phoenix via Es. (All I can say is drool. RWW)

Waldo F. Bishop P. O. Box 1678 Tallahassee, Fla. 32302

This report covers period 4/21 to 6/4. Beautiful Apr. tropo west to Texas strong 4/6 thru 20th, completely gone. Had to really work to get following: 4/21 WBT 107.9 Charlotte "Metrolina" @375 mi; 4/22 WCRT 96.5 B'ham @250. 4/24 WHRS 91.7 Boynton Beach, FL @400 mi. (this on tip from Richard Clark in March VUD) WSPA 98.9 Spartanburg, SC w/Cliff Gray Show @330 mi; WCAC 101.1 Anderson, SC @208; WRAL 101.5 Raleigh @480; WGNC 101.9 Gastonia, NC @375; WFMX 105.7 Statesville, NC @400 mi. (all these catches early AM trop before locals on 0500-0600). 4/29 WPBF 107.9 W. Palm Beach @420 mi. 5/1 WDOD 96.5 Chattanooga @330 mi. and WHBB 100.1 Selma, Ala. @200 mi. 5/9 WLCM 107.1 Lancaster, SC @350 mi. All preceeding tropo. 5/10 Mothers Day and a strong Es opening into Minn, ND & Manitoba: believe opened around 1400, no logging until 1805: CJOB 97.5 Winnipeg 1920; WDAY 93.7 Fargo ND 2010; WHIA 90.3 Holman, Wis. 2245; KUMD 89.1 Duluth, MN 2130; KDHL 95.9 Fairbault, MN tx unk; WNIU 89.5 DeKalb, Ill. For an opening that didn't close until 2310, 6 IDs is poor, but can't fight the locals. Tropo on 5/10 WDYN Chatt. TN 89.7 "on the air until we meet him in the air". 5/24 WSMC 90.7 Collegedale, TN, a "listener supported station" @1400. Had them on tropo. Just before they IDed @1400, super burst w/YL anncing WHAD Delafield, Wisc. Just one small problem. VJ 5 shows WHAD on 88.3. If they haven't changed freq. has anyone an answer? (Yes, I do Waldo. WHAD has never been on 88.3. This is just one of the many errors in VJ Log that one must put up with. They are 75kw and \$ for your info. RWW) 5/30 Very short Es opening. At 1350 opened, KDCR 91.3 Sioux Center, IA ID @1400, closed at 1410, no progression up the band that I could find. 5/31 Tropo WRPM 107.9 Poplarville, MS @370 mi. 6/3 Received like local KOAA 5 Pueblo, CO. @2125, so switched to FM and 2130 hrd KAVI 95.9 in Rocky Ford, CO w/Freedom Talk #54. Closed @2140. This Es weak also, no other openings on the band that I could find.

EDITORS NOTE: VJ#6 is now available for \$2.95. To order a copy, mail to Vane A. Jones Co. 6710 Hampton Drive East. Indianapolis, Ind. 46226. Like I was mentioning above, there are quite a few errors, but it is still the best available listing of TV and FM stations, plus BCB. For the \$\$, I recommend it highly. It sure beats Broadcasting's Yearbook at around \$12 so hurry up and get a copy. There have been a lot of station grants. RWW

Dave Janowiak 3661 South 46th Street Greenfield, Wisconsin 53220

First skip of the year was noted at 1800 on 5/10. Es was noted on channel 7 briefly so, I thought the FM band should be jumping. It was, w/Es all the way up to 107.5. I stayed with the 93.7 to 94.3 area as this represents the largest "hole" in my locals. At 1815CDT KLVI 94.1 Beaumont, TX IDed. On 93.7 local commercials announced "here in Austin" tentative KTBL. Austin faded at 1820. From 1815 to about 1830 93.9 Mexican was heard, w/commercials interrupted by Desi Arnaz singing. Hrd Dallas and Ft. Worth ment. often, probably KBUY. Es on 93.9 was very strong, and reception was 6db better on vertical antenna. Had to leave RX at 1830. Returned at 2035 and skip was still good, but only to about 100.1. Logged WGOS 93.9 Miami Beach for 30 minutes. KBNO 93.7 in Houston about 2040 was weak. Skip seemed to jump from Texas to Florida. 2147 Pensacola ment. on 94.1 for tentative WPEX. At 2147 had acid rock on 94.9, probably Miami, but band went dead at 2158. 5/16 was next opening noted, but had to leave right during the peak. Skip noted at 1745 tune in. KSEL Lubbock on 93.7, w/"music presented by Radio Shack at 19th and University". (Tandy Corp. must be getting big. They are sponsoring radio shows and buying fledging companies like Allied Radio.) Skip very strong at 1800 when I had to leave RX. Returned at 2300, but band dead. 5/30 had UNID Es on 93.7 from SW from 2100-2120. I have had little time to FMDX, except during the bigger Es openings. Most time has been erecting TV antennas and building filter-preamplifiers for TV. Roger, I trust you finally logged some Es; hope you were home on 10-16th. Tropo has been poor except for improved CX from 6-5 to 6-8. (Yes Dave, I finally have added 3 new states via Es. RWW)

Bruce Elving: 522 North 12 $\frac{1}{2}$  Avenue EAST Duluth, Minnesota 55805

Four new stations have been added in May. WLAG 104.1 LaGrange, GA came in by MS 5/1. Real skip occurred the morning of May 10 when WVOP Vidalia (pronounced by their announcer as "Vadiaga") 97.7 and WLTA 99.7 Atlanta, both GA made it. My best catch for the month, however, was KCIM 93.7 Carroll, Iowa on May 24 when nearby WAYL Minneapolis was off the air. WLTA, WVOP and WLAG have upped my Georgia total to 29, while my overall log stands at 865 FM stations heard, 793 including WLAG and KCIM verified. A note of caution on vertical antennae: Don't expect miracles. After considerable experimentation with both types of yagi antennas, I'd say that the horizontal position is preferred for all kinds of FM DXing. I have found no advantage of vertical polarization in reception of FM skip or aurora, and to confine your DXing to a vertical setup may exclude the large proportion of stations that are only horizontally polarized. In fact, in New York's FM Guide points out that, with auto makers now incorporating horizontal antennas into car windshields, the need for vertical polarization may not long exist. ###

Bob Cooper Jr. 6221 Norman Road Oklahoma City, Oklahoma 73122

With more FM Es logged here in the first 15 days of May than during ALL of 1969, this has got to be the year we have all been hoping fore. Incidents such as CKAT 93.7 (noise free for over an hour on a seven transistor portable FM set) just suggest the type of openings we've had so far this year. Tropo has been so-so also. 5/7 0730-0830 KTBC 93.7, KIKK 95.9 (both V and H) KHCB 105.7. 5/9 First Es of season. Some of those logged included CJUS 89.7 Saskatoon (\$), CFMQ 92.1 Regina (\$); KMOT 93.7 Minot; KCJB 97.1 Minot; KBMR 94.5 Bismark and KIVE 96.5 Glendive. 2158 KFIA 94.5 Scott City, KS s/off, S/on at 0800. 5/10 1036-1126 FM Es, some logged included WKCR 89.9, WMMMX107.9 (first Connecticut) WVOX 93.5, WFUV 90.7, WGPA 95.1, WPKN 89.5 and WKOK 94.3 1740-1805 this was a dandy, but had to leave the house at 1805. Local reports suggest it lasted well past 2100 into NE from here. Noted were WHFR 88.3; CKWW 88.7; CHYM 96.7; WSTC 96.7; CKQS 94.9; WMIV 95.1; WGMZ 107.9 and WFLN 95.7, 5/11 tropo to north

Cooper (Cont'd) including KICS 93.5 (350m); KWBE 92.9 KANS 96.7 and others. 2131-2135 WAMU 88.5 Washington DE on Es. 2232-2300 KCFM 93.7 458 m, PM tropo. 5/13 1951-2015 Es to East, NE. Including WJAC 92.1; WKSL 94.3; WSTW 93.7 (sounded much better on Es than on Ms!); WFRE 99.9. 5/16 Es to North, NE, including WCCW 92.1; WIAA 88.3; WDOR 95.9; WJGS 98.5; WDUZ 98.3; WWTW 92.9; WCEN 94.5; WZZM 95.7; WBEV 95.3; KFMD 92.9 (only 605 miles, first Iowa here on ES); CBF 95.1 Montreal, first Quebec and probably a double hop; CKAT 93.7 North Bay; WCRM 95.3; WHOK 95.5; WDEE 93.1, first log since WJBK, that was Ms. 2050-2134 Es to west, including KFAC 92.3; KNX 93.1; KKOP 93.5; KVFM 94.5; KPOL 93.9; KNJO 92.7; KHJ 101.1; KPFK 91.7 (boy, is their programming funny!); KABC 95.5; KFZR 95.9; KCIA 99.9 and KUSC 91.5. 5/19 Old faithful tropo tipoff KWWL 107.9 loud and clear. 5/20 0640-1100 Tropo duct into Iowa, MN, WS. Incl. KLSS 106.1, KROC 106.9, KAUS 99.9, WRVM 102.7 Suring, WS. (Roger - even SRDS doesn't list this one. I taped their ID, and it is 825 miles, ..but do they really exist??) Yes Bob, when visiting my sister in Wisc. last summer, I, too heard them and VJ lists them at 100kw. I really would like to log it here. RWW. WRIT 102.9; KMFL 102.9; WAUK 106.1; WHWC 88.3 plus Wisconsin RN on 88.7, 91.3. 1710-2130 KWWL back in plus KXEL 105.7, WCCN 107.5 (750 m) and others. 5/21 Es to NW, W SW including knev 95.5 and KUNR 88.1 Reho; KOSO 93.1; KOIT 93.3; KQED 88.3 (note- this should be a good choice for double hop into any part of the east this summer. They have a POWERFUL signal) San Francisco; KRBT 102.5; KVFM 94.5; KNX 93.1; KABC 95.5; KFAC 92.3; KPFK 91.7 (their programming is still funny!); KBAY 100.3; KFMS 106.1; KBBE 103.3; KBRG 105.3; KNBR 99.7; KUOP 91.3; KFIG 94.5; KSAN 94.9; KIOI 101.3 IDed as Stereo 101; KGO 103.7. 5/30 This was first of super dates, for this session, I had 4 hours of ES on this date, starting with 0003-0010 KQMU 94.1 Salt Lake City. 1143-1326 WWBD 92.3; WBLR 92.1; WDSC 93.1; WFMK 105.7; WNCT 107.7; WSTO 106.5; WJLM 93.5; WBCI 96.5; WICO 94.3; WWDC 101.1; WGTS 89.9 ending w/WOUB 91.3 1645-1825 WEAS 93.1; WTOC 94.1; WTMA 95.1; WDJC 93.7 new calls for Birmingham, they are a religion oriented; WJGA 92.1; WFDR 93.3; WAVO 94.9; WLTA 99.7; WLOV 100.1; WSB 98.5; WJAT 98.3; WFOX 97.1; WAKN 99.3; WPGA 100.9; WCSG 96.1; WCRS 96.5 and WJJM 94.5; As you can see, GA was predominant this session. 2200-2215 KOYN 93.3 Montana for fourth and final Es session of the day. 5/31 1853-2130 Es from west and from Florida during part of this period, at the same time, from both coasts. Did someone catch double hop Es on FM from coast to coast? Some of these heard were: KNEV 95.5; KVLW 99.3; KSRN 104.5; KSNN 93.7; KBGK 94.1; KBBK 92.3; KQED 88.3; KVCR 91.9; KNX 93.1; KPIP 93.5 (where is this one Roger?) Don't know Bob, no listing at all, only one close KVPI Ville Platte, La. RWW. KFAC 92.3, KFIG 94.5; KFRE 93.7; KABL 98.1; KNBR 99.7; KIOI 101.3; KAMB 101.5; KJAX 99.3; KKHI 95.7; KXOA 107.9; KRON 96.5; and KABC 95.5 from California: KVEG 92.3 Nevada; WFIA 93.3; WSWN 93.5; WNFM 94.5 and WVFM 94.1 from Florida. May ended up for me with 14 Es openings, 8 dates, and a whopping 20 hours and 42 minutes of FM Es logged. Just sorting out the tapes will be a month long project! 6/1 1837-1902 Es into far northeast, including amongst others CBF 95.1 and WJMS 94.3 both Montreal and both 1500 miles. 6/2 to 6/4 out of town, no telling what I missed. 6/4 1930-1942 middle coast area stations on Es including WXTC 107.9 Annapolis, Md; WWDC 101.1; WASH 97.1 Washington; WSTW 93.7 Wilmington and mystery WSEA 93.5 Where is this last one located, Roger? Georgetown, Delaware Bob ex-WJWL-FM RWW. 6/5 XHRSM 91.3 Mexico City on Es w/good up-tempe instrumental mx while it lasted. 2014-2018. 6/7 0600 WWEL 93.9 on meters w/ID, later at 0644 for ad for Lake-front apartments (Chicago). And that was the month that was! 73, Bob.

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

Well, I finally logged Es. 5/16 KBMF 98.3 Spearman, TX 1800 ID, then TSN mx to 1815, KMTY 99.1 Clovis, NM 1831 ID out of blue!, KSJT 97.5 San Angelo TX 1920 SS, ID per phone call. 5/18 WIAN 90.1 Indianapolis 0745 s/on, w/local WMBI ON. 5/30 KEEZ 97.3 San Antonio 1900 ID following mx. 6/7 WNON 100.9 Lebanon, Ind. 0705 w/local mx and ID during strong tropo opening and finally 6/13 WHMS 92.1 \$ Hiawah, Fla. 1450 ID "WHMS time 5:50" for new state. Now 325 stations logged.



Glenn Hauser, editor  
Box 1466  
APO San Francisco 96288

or

CMR Box 1466  
Korat Royal Thai AFB  
Nakhorn Ratchasima  
Thailand

JULY 1970

Heading by Bill Heusmann

Co-editor Roger Bunney has put us in contact with a DXer we might call the "Bedford Brown of Australia." George Peterson of Ayr, Queensland, was most active in 1958-1963. Now a Radio & TV Service Engineer, George says of DX today, "global T.V. is so common place that it has taken the interest out of it for me." George mentions among his catches T.E.F. (trans-equatorial F-scatter, I presume), from ch. A3 in Seoul, South Korea; and also Vladivostok, RSFSR and Harbin, in northern China, both on 49.75V. In coming columns we hope to tell you more of Mr. Petersen's DXploits.

Japan. As noted in last month's VUD, your editor took a trip to Japan in May and June. It was tough to give up  $3\frac{1}{2}$  good weeks of the Es season, but it was the only time I had a chance to go. The trip was very enjoyable, though mostly non-DX.

At EXPO 70, the Telecommunications pavilion had a display of "laser color TV," but the picture looked pretty bad when I saw it. Also a laser-transmitted picture phone. The official Seiko clocks were synched all over the fair by a UHF signal. And that about does it for EXPO 70 and DX-related topics.

Tokyo and Osaka are as saturated with VHF TV signals as New York or Los Angeles, and most of them on the air a good 18 hours a day. So without Bob Cooper's DX technology, it's little wonder that TVDX is unknown in this densely populated country. By the way, if any of you in Hollywood or elsewhere DX some Japanese tentatives this summer, I can check some newspaper listings for you....

While in Tokyo I visited NHK's facilities, which I would say are much more impressive than NBC's in Burbank--the only other large TV production complex I have seen. TVDX as a hobby seems to be unknown in Japan, but a couple of NHK staffers told me that people in southern Korea watched NHK-TV quite often.

I shopped around in the renowned Akihabara electronics district but could not find a Japanese-to-US converter. I had to settle for the Japanese FM version (76-91 MHz) of the Panasonic RF-619 portable, from the Daimaru Department Store.

Commercial FM is still undeveloped in Japan. Tokyo has the only known such station, on 80.0 MHz, newspaper-listed as JOAU-FM, but IDing as "FM Tokyo." Tokai FM, listed by WRIVH at 84.5, was not heard. NHK has the country blanketed, however, and in Tokyo the station is on 82.5, IDing as JOAB-FM (the counterpart of NHK-2 on AM, JOAB-690).

Hong Kong. Mr. Welles Hagen of NBC News graciously invited me to join them in an expedition into the hills to watch Canton TV, but I was unable to arrange any more than a one hour layover there. And as of this writing, Mr. Hagen is among those missing in Cambodia. Let us hope for his safe release.

The 87-108 version of the RF619 allowed me to note the following from the airport transit lounge; frequencies are quite approximate. This was 8 June after 2151 JST.

87 Relay of BBC English ballgame; 2159, local weather and ID as "AM Service"! Was parallel to 54.5 mediumwave.

91 "R. Hong Kong FM Service." Classical music; strong.

93.5 Chinese, stronger than above; relaying SW, probably BBC Cantonese service. Parallel to mediumwave 640.

94+ (mixing product with 1050 kHz MW outlet; rock mx, English; weak.)

97 Chinese, similar to 93.5, maybe parallel, but weaker. Maybe Macau-list 98 MHz.

108+ Beacon "IHK", continuous ID; better heard on 88 MHz image.

On the other RF-619, I noted the following:



76- Weird continuous sound; probably air navigation.

77- Strong Chinese 2-way; perhaps airport activity.

Also thought I might have had China when audio was heard around 48 and 49.75 MHz on the Allied PSB, but these turned out to be images of 91 and 93.5 MHz respectively.

I picked up a copy of the China Mail with UHF-TV listings, just in case....

Thailand. Back in Bangkok, I logged nine FM stations around 0910 TST 9 June. Thai speakers were around 89, 94, 98, 98.5, 100, 103.5 and 104.5 MHz. English on 90.25 (HSA) and 95 (Thai TV). None lasted more than 25 miles out of town on the road. In Bangkok before departing for Japan, I visited Army TV Channel 7 (HSA) and took some slides of their studios; they were putting on a special program for Buddha's Birthday (19 May). Along the road I saw the tower of the Green Hill ch. A3 relay of ch. 7. A couple months ago Bangkok opened a second color TV station, on ch. E3 ("channel 2 on black and white sets"), so this country is now an F2 possibility. A Manila newspaper I saw showed stations on lowband chs. A2, A4 and A5, contradicting other sources showing A3 and A5. So watch for Philippines too on F2, hi.

FBIS lists of FM and TV stations have just been published, dated 1 September 1969. Thai sections are incomplete, but Mexican and Cuban situations are clarified. Highlights from this part of the world: first listing of TV in North Korea, Pyongyang on ch. R5; also Mongolia, Ulaan Bator, but no channel given. Ch. E5 is under construction at Chittagong, East Pakistan, not far from here. In Okinawa, NHK is already extending its network as OHK, including a lowbander, ch. A2 in Naha (no power given). Get it now before Japanese sovereignty brings Japanese channels. The extensive AFVN network in Vietnam is missing.

My DX at Korat is still pretty sparse, but at least am prepared for it now. No TV or FM DX in March and April, but some more harmonics and 2-way Russian (hams or planes?) in the 35-43 MHz area on the PSB receiver. Also bagged South Korea on FM, but the band there is conveniently lower. On 5 May I had a definite "KBS" ID amid Korean talk at 1110 TST around 44 MHz. FBIS 68 shows a 250-w link at Suwon on 44.3; FBIS 69 shows none. This may be the same outlet heard by Gordon Simkin in California for the world FM record.

A large FM antenna I had had for some time was finally installed in the attic of the barracks on 1 May, but no signs of DX before I departed on 18 May; it brought in three locals fine though. Currently pointed east, only one DX catch on it: on 11 June, at 1001 TST (GMT+7), Chinese fading around 93.6 MHz. Mostly out but when in, fairly strong. Taped it, showing Chinese talk by lady, and Hong Kong mentioned once. Doubtless the same station I logged while in Hong Kong. Also had some English and Chinese music; fade at 1030 ID time. At 1100, a six pip time signal and I left for work. That evening at 1912 it appeared again, with shortwave relay, probably BBC Chinese service; out by 1940.

Local FM includes Royal Thai Army 2nd HQ, on "90.624 MHz"; has marginal English request program Fridays around 2200. Another station on about 98.8; and one at a technical school is only on the air around noon on weekdays, about 89 MHz.

TV-wise, I finally installed my LPV all channel antenna with a rotor about 25 feet above ground, but not quite clearing surrounding barracks roofs. Frequent checks of the entire VHF band, especially evenings, have followed with no DX seen. Hopefully due to Cooper's predicted lull... An occasional weak frame bar on ch. 2, but this may just be marginal signal from Bangkok's E3 outlet. Have been especially watchful for Cambodia and Vietnam on 8 and 11, but no sign so far; no trope openings yet, unless sunup-type when no stations are on the air! Thai stations regularly seen:

Ch. A3 Green Hill, relay of ch. A7 Bangkok; fair video but very weak or absent audio; seldom runs TP as long in the afternoon until approx. 1700 sign on as originator does.

Ch. A5 Khon Kaen, picture barely syncs sometimes. Said to be video tape-delay relay of Bangkok programs. FBIS' 70kw hard to believe.

Ch. A7 HSA-TV (Thai Army TV), Bangkok, always there, sometimes fair; video weaker and audio stronger than on ch. 3. Weekends opens around 0900. Nominal 200 kw.

Ch. A12, local Nakhorn Ratchasima relay of Bangkok's Thai TV, ch. A4, which has not been seen. Nor has the Army color station on E9. Have passed the tower many times on way into town. Power unknown, but enough to mess up ch. 11.

I have not yet bought my own TV, since the prospect of getting much DX is so far pretty bleak; instead am using a nearby government set intended only for reception of base AFVN stations on ch. 74 and 80.

Any and all pertinent correspondence for this column is welcome. 73 de Glenn

# CENTRAL TV DX column

Roger H. Brown  
624 Evergreen  
E. Lans., MI  
48823

July 1970

Next Deadline: July 18

FOR TV-DX REPORTERS IN WI, IL, IN, MI, OH, PA AND ALL EASTERN CANADIAN PROVINCES

Isn't summer a ball? As I prepare this month's column, memories of recent Es openings still swim happily in my DX filled head. May and June were FINE months in these parts... especially for Es watchers. The lower channels were filled with the fluttery, screeching, signals for...at times...days and days. One period...from 5-28 to 6-12... had but one day (6-6) skip-free somewhere in this area.

We haven't had a SUPER tropo opening across a wide area. Here in mid-Michigan, the slow moving frontal systems haven't produced the strong inversions necessary to tropo. Our hot, sultry weather of mid-June lost the effects of a high pressure system early and rather than watch for tropo...we watched for a long awaited front. The front produced good openings West of my area but distances were limited here.

Apparently the tropo opening mentioned last month (5-19 and 20) were best here in East Lansing. Here's a look at a very good month; with new stations underlined:

J. Joel Rosenberg, 47 Pamahill Rd., Downsview, ONT. 475 (EST)

- |  |   |
|--|---|
| 5-10 Es 1059 <u>WBRZ-2 Baton Rouge</u><br>1129 <u>KQTV-2 St. Joseph, MO</u><br>plus many un-ids when I had<br>to leave for school trip to<br>Sarnia, Ont. where I saw...<br>2330 <u>KATC-3 Lafayette, LA</u> | 5-28 Tr 1845 <u>WWJ-4 Detroit</u> VERY strong<br>2000 <u>WENY-36 Elmira</u><br><u>WUCM-19 (Detroit 20 not on Joel)</u>  |
| 5-11 Es 1600 Un-id 2 from Sarnia   | 5-29 Au 0730 No ids.  |
| 5-19 Tr 2125 <u>WXON-62 Detroit</u><br><u>WTWS-56 Detroit</u><br>2220 <u>WUCM-19 Bay City, MI</u><br>2205 <u>WKBD-50 Detroit</u>   | 5-30 Es 1300 No ids. Ch 2-4. Peaked at<br>1645 and again at 2100.   |
| 5-20 Tr 0015 Cleveland area Us<br>weak skip in evening   | 5-31 Tr 0150 <u>CBOT-4 Ottawa</u><br>Es 1300 Un-id 2-4. Appeared to be out<br>of sync. (See Frank Merrill's<br>report).   |
| 5-21 Tr 0745 Cleveland, Lima Us in<br>1555 <u>WXXI-21 Rochester, NY</u><br><u>WCNY-24 Syracuse</u>   | 6-1 Es 1630 In. Un-ids on 2. In again at<br>2015. Un-ids on 2 til 2115.   |
| 5-23 Tr 1800 Same as above plus Erie Us<br>2030 <u>WBJA-34 Binghamton, NY</u><br><u>WUTR-20 Utica, NY</u><br><u>WINR-40 Binghamton</u>   | 6-2 Es 1730 In. Peaked at 1900, died at<br>1930. Again no ids.  |
| 5-24 Tr 0030 <u>WCDC-19 Adams, Ma</u> strong,<br>out quickly   | 6-3 Es 1400 First saw. Out at 1440. No<br>ids on 2-4.<br>1900 (at Mark Lewis' house) <u>KCKT-2,</u><br><u>KWGN-2</u> and (wow) <u>KBOI-2</u> on<br><u>double hop.</u> All died at 2335. |
|  | 6-4 Es 1600 First noted.<br>1900 <u>KATC-3, 1959 WBRZ-2, 2030</u><br><u>WBRZ.</u> out at 2340.  |
|  | 6-6 Es 1145 Weak skip till after 1900   |

ROSENBERG, cont.

6-7 Es 1145 KQTV Weak.

(Thanks for the fine report Joel. Hope the ids on your skip stations come easier along the way! Please send your Un-Ids to the CCI column).

6-8 Es 0920 and again at 1815  
Tr 2230 CKSO-5 Sudbury, Ont.Roger Carriere, 196 Joseph, Buckingham, Que. (EDST)4-28 Tr 2200 WHEC-10 Rochester, NY. (190)5-10 Es 1800 WBRZ-2 Baton Rouge Skip in there till 2100+. Also noted KVOO-2 Tulsa at 2100.5-9 Tr 2300 CHLT-7 Sherbrook, Que. (170)5-31 Es 1200 WESH-2 Daytona Beach

(Rog...bien venue! Votre report est tres bien. Merci beaucoup mon ami. Roger is using an LP and 5' dish at 30' with a Heath. He's located behind a hill with a clear shot toward DX stations.)

John Parillo, 400 S. Market St., Girard, OH 44420 (EDST)

5-10 Es 2006 KPRC-2 Houston

5-20 Tr 2215 On WHIZ-18, WGTE-30 Ohio,  
WQLN-54, PA.5-16 Es 1929 KLNE-3 Lexington, NB2258 WUCM-19 Bay City1943 KOAA-5 Pueblo, CO2342 WXON-62 Detroit1959 KWGN-2 Denver, CO2357 WCMU-14 Mt. Pleasant2027 KOA-4 Denver5-21 Tr 0052 WTAP-15 Parkersburg, W. VA.

(John notes skip there thus far has been sub-standard...about like last year. Could be an odd pocket but more likely a lack of good luck thus far! Keep at it John...good to hear from you again. Thanks for comments on my show. RHB)

Charles A. Dobbins, 12851 Longacre, Detroit, MI 48227 (EST)

5-24 MS 0615 Un-id 4

6-8 MS 0500 WCBS-2 NYC (500)Tr 0505 WBBM-2 Chicago (240)

5-31 MS 0600-0700 A couple of un-ids on 4

0515 WLWD-2 Dayton (190)0522 WLWI-13 Indianapolis (245)6-7 Tr 0508 KDKA-2 Pittsburg (215)0608 WGN-9 Chicago6-14 Tr 0505-0630 Pittsburg, Cleveland,  
Chicago Vs.0520 WOOD-8 Grand Rapids (130)0526 WGN-9 Chicago (240)0558 WBNS-10 Columbus (170)0645 WLS-7 Chicago (240)

(Using a 13 el. CM and 25" RCA color set, Charles is DXing from metro Detroit...a tough location. Don't give up man, just check the totals of city bound DXers Morrie Goldman, Ferdie Dombrowski, Dave Janoiak, etc. The skip will reach you soon!)

Harold Cooper, 29800 Ann Arbor Trail, Westland, MI 48185 (EST)

5-10 Es 1730 <u>WBAP-5 Fort Worth, TX</u>	5-18 Tr 0600 <u>WBEN-2 Buffalo</u>
1757 <u>KTXT-5 Lubbock, TX</u>	
1800 <u>KFDX-3 Wichita Falls, TX</u>	5-19 Tr 2200 <u>CBLT-6 Toronto</u>
1818 <u>WEAR-3 Pensacola, FL</u>	
2000 <u>KOCO-5 Oklahoma City</u>	5-20 Tr 0510 <u>WFBM-6 Indianapolis</u>
2128 <u>KCEN-6 Temple, TX</u>	0523 <u>WGR-2 Buffalo</u>
2200 <u>KALB-5 Alexandria, LA</u>	0530 <u>WIIC-11 Pittsburg</u>
	0536 <u>WTTV-4 Bloomington, IN</u>
5-16 Es 1758 <u>KARD-3 Wichita</u>	0557 <u>WTRF-7 Wheeling, WV</u>
1803 <u>KCMO-5 Kansas City</u>	2200 <u>WPGH-53 Pittsburg</u>
1806 <u>KTVC-6 Dodge City</u>	
1905 <u>KCKT-2 Great Bend, KN</u>	5-21 Tr 0105 <u>WWUP-10 Ste. St. Marie, MI</u>
(over strong <u>WJBK</u> )	0145 <u>WTAE-4 Pittsburg</u>

(Another Cooper????? Good report too. All those Es on 5 and 6 would sure be welcome here Harold. Please note equipment used next time. RHB)

CHECK THIS ONE FELLOW DXers...ITS A DANDY!!

Frank Merrill, 10673 Saline-Milan Rd., Milan, MI 48160 (EST)

4-28 MS 1630 <u>WREC-3 Memphis, TN</u>	5-30 Es 1515 Un-id 3 to SE, possible double hop to Carribean area. Movie in English w/ no ids. Possible Br Virgin Is. per call to B. Cooper... To 1555.
5-10 Es 1757 <u>KTXT-5 Lubbock (My new BYB says 27.5 KW Frank. RHB)</u>	
1959 <u>KAUZ-6 Wichita Falls, TX</u>	
2159 <u>KNME-5 Albuquerque, NM (and a new state)</u>	1659 Un-id 3 SE. Possible double hop. Movie in Germanic type language. Have written sev- eral possibles plus language expert and NRC member at U. of Hawaii w/tape. (could this be Dutch outlet in Curacao Frank? ...RHB)
5-21 Tr 0100 <u>WPGH-53 (please note call Frank)</u>	
5-30 Es 1800 <u>KGBT-4 Harlingen, TX</u>	

(ALL good luck to Frank in obtaining ids from his 5-31 reception. Sorry I wasn't at the phone Frank...that's the one day I failed to watch...sob. Please continue reports... of all skip reception. Thanks. RHB)

Gary Olson, 1203 Kenton Rd., Deerfield, IL 60015 (CDST)

5-13 Es 2000 <u>WEAR-3 Pensacola (out at 2215)</u>	5-18 and 27 Tr UHFers to 200 miles in eve.
5-16 Es 1810 <u>KFDX-3, WKY-4</u>	5-30 Es 2000 <u>WSAV-3 Savannah</u>
1830 <u>KACB-3, KGNC-4 (out at 2000)</u>	2045 <u>WEDU-3 Tampa</u>
2100 <u>KWAB-4 Big Spring in briefly</u>	
5-17 Es 1100 Un-id 2-4 in for a short time	6-1 Es 1800 <u>KIII-3 Corpus Christi</u>
	1830 <u>KGBT-4 Harlingen</u>
	1930 <u>XEFB-3 (tent) Monterrey</u>
	<u>KBTX-3 Bryan</u>

- 6-4 Es 1845 WWAY-3 Wilmington, NC      6-7 again, good early am tropo to Ft. Wayne
- 6-6 Tr good early am uhf to 200 mi.      6-8 Es 2012 (tent) CFRN-3 Edmonton, Alta  
2030 KID-3 Idaho Falls, Id

(Gary says most of his skippers have been of the "weak" variety...with short openings and lower 3 channels. No GOOD opening has been seen there despite frequency of reception. Also...is discouraged with Deerfield location. No new stations yet despite Conrac AV 82E. Remember...all good things come to him...etc. Maybe you could talk your "locals" in Chi and Milwaukee into taking a rest Gary. They must give you the dickens. RHB)

Mike Paulowski, 18437 Wildwood, Lansing, IL. 60438 (CDST)

(A short note from Mike with a note that his best catches are WTVJ-4 Miami and KGNC-4 Amarillo. He'd like some info on building Antennas and Pre-amps. Why not try Bob Coopers IPAs Mike? RHB)

Bill Draeb, Ellis St., RR #2, Kewaunee, WI 54216 (CDST)

- 5-13 Es 1924 WEAR-3, WKRG-5; 2031 KATC-3      6-3 Es 1237 WTVY-4 Dothan and (tent) sev-  
and lots of Un-ids.      eral in Georgia, Fla. area to ch. 6.  
1737 KGBT-4; 1800 KIII-3, 1815  
KATC-3; 1828 WOAI-4; 1853 KENS-5;  
1900 KTBS-3; KPRC-2; 1930 KBTX-3;  
2111 WLBT-3 plus un-ids to ch. 4, W.
- 5-16 Es 1710 KFDX-3; KRLD-4, WBAP-5, KAUZ-6,  
KACB-3, KVOO-2; 1805 KCEN-6; 1815  
KPRC-2; 1920 KBTX-3
- 5-17 Es 1210 Weak, un-ids on 2-4      6-4 Es 1945 Un-id Spanish audio on 3.  
Tr 1900-2200 Chicago area, Lafayette,      2015 KOB-4, KNME-5 N. Mexico.
- Ft. Wayne Us.
- 5-18 Tr 0520 WANE-15, WKJG-33, WISH-8,  
WCPO-9, WBNS-10, WLWI-13; 0530  
WPTA-21; 0540 WLFJ-18      6-5 Tr 0540 Cincinnati, etc.
- 5-19 Tr 0535 Same as before plus WTRF-7,  
WSTV-9, WICU-12, and at 0607 (tent)      6-6 MS 0612 KRLD-4; 0614 WCIV-4  
WJHL-11, Tennessee.  
1900-2300 Michigan, IL. Us.      6-7 Tr WXOW-19 La Crosse, WI (snowfree)
- 5-21 Es 1720 Un-ids on 3 and 4 SSW      6-8 Es 1828 KOA-4, KWGN-2; 1950 CKSA-2,  
2008 CFCN-4; 2025 KUTV-2; 2100  
KCPX-4, 2205 KSL-5. plus tentatives.
- 5-23 Tr 0655 KCRG-9 Cedar Rapids      6-9 Un-id Es SW plus Tr to Peoria
- 5-27 MS 0547 WTRF-7! Eight or so overlapping  
bursts for 5 seconds. Smearly  
picture.      6-11 Es in at 1620. 1730 WUSN-2, WCIV-4,  
WCSC-5, WWAY-3; 1748 WSAV-3,  
WESH-2; 1810 WPTV-5, WETC-6;  
1825 WEDU-3; 2045 KRLD-4, WBAP-5,  
2150 WECT-6
- 5-30 Es 1820 KATC-3, KACB-3, La.  
1930 KIII-3 plus un-ids.      6-12 MS 0513 WECT-6 Wilmington
- 6-1 Es 1946 KBTX-3 Bryan plus un-ids      6-13 MS Un-id ch.10. RETMA TP, w/ no call.  
Help anyone??  
Es 1131 Un-ids 2-4. 1441 KWGN-2,  
KOA-4, 1600 KOTA-3; KYUS-3; KDIX-2.
- 6-2 Es 1215 KIII-3, KRLD-4; 1233 WOAI-4  
KENS-5; 1243 KBTX-3; 1903 KID-3      6-14 Es 1123 KXLY-4

Draeb, cont.

(Congrats on new ones Bill. They must get tough after that 400 mark. They get pretty hard after 200 by my reckoning!! Bill passes along pix of his Antenna set up...several from near 100 feet up where the view is breathtaking. He can see Green Bay towers!! Also...several pix of Chicago Us and KDNL-30 with just a little snow. Got room on that hill old friend?) Bill received verie on KOMO logging...great going!!!

Ferdinand Dombrowski, 1311 W. Madison Apt. 11, Milwaukee, WI (CDST)

- |   |   |
|---|---|
| 5-11 Es 2125 WDIQ-2 (tent)  | 5-30 Es 1230 KPRC-2, WLBT-3; KATC-3;<br>1300 KALB-5; 1900 KIII-3; 2045 XEFE-2<br>(tent) plus many, many un-ids<br>through ch. 5.                        |
| 5-13 Es 2135 WESH-2; 2145 WEDU-3 (tent)   |   |
| 5-16 Es 1655 KMID-2, KPRC-2; 1730 KFDX-3<br>KOCO-5 Okla City; 1800 KACB-3, KVOO-2<br><u>WBAP-5, KFSA-5 Arkansas, KARD-3 Kan-<br/>sas, 2230 Skip gone.</u> | 5-31 Es 1500 Un-id ch. 2.   |
| 5-17 Es 1115 KPRC-2 in and out til 1220,<br>Tr 2200+ Ft. Wayne, Peoria, S. Bend,<br>all good plus WKBD-50 at 2345 good.                                   | 6-1 Es 1830 WESH-2; 1930 WUSN-2 (tent)<br>2000 WSAV-3; 2101 WEDU-3  |
| 5-18 Tr 0100 WTOL-11 (tent)<br>0700 WMT-2 Cedar Rapids  | 6-2 Es 1800 KOOK-2; 1830 KTWO-2; 1930<br>KID-3; 2000 KUTV-2.<br>Tr 2230 WMT-2   |
| 5-19 Tr 0615 WKBT-8 LaCrosse (175)  | 6-3 Es 1800 KPRC-2; 1820 XEFE-2; XEFB-3<br>(both tent) 1840 KBTX-3; 1845 KIII-3;<br>1850 KRGV-5 (tent) 1930 KENS-5<br>(tent) 2222 KWGN-2, KTVS-3 (tent) |
| 5-20 Tr 0615 WJMN-3 Escanaba, MI (200)<br>0625 WSIL-3 Harrisburg, IL (tent)   | 6-4 Es 1830 WUSN (tent), WEDU-3; 1845<br>WRBL-3 (tent); 1915 WSAV-3 (tent)<br>WESH-2; 2000 WEAR-3 (tent)<br>Tr 2300 WQAD-8 Quincy, IL (300)             |
| 5-21 MS 0642 WWL-4 (tent)<br>Tr 0710 WICS-20 Springfield, IL (250)<br>Es Un-id at 1830 on 2-3   | 6-7 Es 1111 KOOK-2 Billings, MT.  |
| 5-23 Es 2140-2330 Un-id, in and out to ch 5   | 6-8 Es Un-id from 1855 to 2230  |
| 5-29 Es 2355 WESH-2   | 6-11 Es 1830 WESH-2; 1900 WEDU-3; 1930<br>WUSN-2; 2030 WSAV-3, plus many un-id<br>to ch 5. Opening lasted 5 1/2 hrs.                                    |

(Ferdie's log totals now over 350 with new ch 5s. On vertical antenna???) No, a TRAP-EZE--FSD.

Dave Janowiak, 3661 South 46th Street, Greenfield, WI. 53220 (CST-CDST)

- |   |  |
|---|--|
| 4-20 through 5-8 installing antennas as follows: ch 2 finco, ch 5 finco, 2 hi band fincos, all ch winegard conical vertically polarized, 7 ft. finco dish!! | 5-9 Es 1729 (tune in) KOAI-2 Flagstaff, AZ.<br>(rcvd letter verie...Dave was first in midwest w/ this one.)<br>1735 KWGN-2 to 1810 turn off. |
|---|--|

Janowiak, cont.

- 5-10 Es at 0900 tune in. Un-ids on 2-3 to 0915 tune out. 1200 WUSN-2 at tune in to 1300 tune out. 1630 skip strong to Texas (KMID-2, KPRC-2, KBTX-3, etc.) 1800 skip up suddenly to ch. 7. 10KC offset over local WLS-7. 1815-on. Lower channels clobbered badly. Spent most of evening on FM...but noted skip shifting from Texas to Fla. all evening. Gave up at 2200, skip still in.
- 5-11-12 Es both days, 1800 to 2200. Few ids.
- 5-13 Es 1800-2200 WESH-2, WEDU-3
- 5-16 Es 1640 KMID-2 at tune in. KPRC-2 in also. 1700 skip into FM band. 1729 KOCO-5 (tent) had to leave at 1800.
- 5-17 Es KMID-2 at 1158 tune in.
- 5-18 to 30 horrible Es and Tr conditions!!
- 5-30 Es 2100 tune in...excellent skip. Logged XEFE-2, WBAP-5 plus other Texans on 2-3.
- 6-1 Es 1900 WESH-2 at tune in. Noted weak Es all evening to Florida and Georgia.
- 6-2 Es 1400 KENS-5 logged by MRS. J!! 1900 KID-3 plus others to west
- 6-3 Es 1720 at tune in. 1730 KOOK-2, KTW-2; 1800 KPRC-2; 1810 XEFE-2; 1820 XEFB-3 (tent) 1900 Texans on 3 and 5. 2230 Un-ids to west.
- 6-4 Es weak at 1800 tune in. 1815 WESH-2. 2000 WEDU-3. Tr good to 200 miles Es 2200 KOAI-2
- 6-5 Tr to Michigan at 0645 and to 300 mile range in evening.
- 6-6 Tr good out to 350 miles, inc. Cleveland, Minneapolis, etc. Es 2230 KMID-2 at tune in
- 6-7 Tr Same as 6-6 plus rare Wausau and Des Moines in am. Es 1630-1700 tent KPRC-2
- 6-8 Tr still good to 350 miles. Had to leave at 0720.

(Dave's log is now at about 350. Thanks for the good letter Dave. Let us know how the IPAs work out when finally completed).

Bruce Metzner, 136 Gas Lite Sq., Apt. 6, Madison, WI 53713 (CDST)

- 5-28 Tr 0645 WZZM-13 (190) WILX-10 (260)
- 6-4 Tr 2115 WLXT-60 (135)
- 6-5 Tr 0032 Peoria Us plus WTOL-11 (315) at 0043
- 6-13 Tr 1335 WPBN-7 and WWTW-9 (225)
- 6-14 Tr 0845 WSBT-22, WGEM-10 Quincy at 2100
- 6-15 Tr 0017 KROC-10 Rochester (145) 0130 WNEM-5 Bay City (290)
- 6-16 Tr 0055 WJRT-12 Flint (290)
- 6-17 Tr 0001 KGIN-Grand Island, NB (490) 0055 KETV-7 Omaha (360) 0833 WHO-13 Des Moines (250)

(Thanks for your first report Bruce. I'd love to have many more...you my farthest West reporter. Bruce is DXing with biggest CM color-vector at 60' and almost completed twin 7' set-up ala Bob Cooper. You might find wanted hybrid splitter info from Bob or Dave J., Bruce).

Roger Brown, 624 Evergreen, E. Lansing, MI 48823 (EST)

- 5-19 Tr 2345 Erie Us all near snow free 6-4 Es 1850 tune in to Florida, ch 2-4  
Tr 2230-2400 good to 250 miles inc.  
WSNS-44 Chicago at 2336.
- 5-20 Tr 0620 Youngstown Us good  
2015 WBGU-70; 2025 WOSU-34;  
2040 WPGH-53 (near snow-free) 6-5 Tr to all directions. Best at 2315 with  
PLUS Erie Us, Cleveland, etc. WHIZ-18 in.  
all perfect  
2330 WDAU-22 (460), WBRE-28 (460) 6-6 Es 2120 Un-id 2 + offset in for 2-3  
good minutes  
2400 WKTR-16 Kettering. (220)
- 5-21 Tr opening continued to am w. Pittsburg  
Vs snowfree at 290 to 0145. 6-7 Es 1315 tune in. Weak to SE Un-id 2  
0530 WKBW-7 Buffalo w/ tp. Things 6-10 Es 0020 CKCK-2 Regina. Lasted until  
died down by 0800. after locals signed off. Saw first  
skip on 6 at 0115. CKCK-1 Willow  
Bunch. At 0135, CKSA-2, Alta.
- 5-28 Tr 2130-2400. Usual toward east plus  
CKCO-13, CHCH-11 and WNED-17 very 6-11 Es 1350 tune in KOOK-2 plus CCI to  
good. ch 4. 1725 KWGN-2, UN-ids.  
1745 my monitor blew! Switched from  
Conrac to GE. 1800 Florida on  
2-4. Opening lasted for at least  
another 2 hours.
- 5-30 Es 0130 Un-id 2 SW. First here since  
5-17. 6-13 Es at tune in...1245. Weak KWGN-2  
at 1345. Offset on 3.  
1130 at tune in to SW 6-15 Es at 1135 tune in. tent KOTA-3  
1200 WBRZ-2, WLBT-3, KPRC-2, etc. 1245 KDIX-2. Left at 1300
- 6-1 Es 1930 tune in KPRC-2, 2000 WEDU-3  
weak 6-17 Tr in evening to 250 miles.  
2055 KMID-2, 2100 WDIQ-2
- 6-2 Es 1240 tune in to 1330. KPRC-2, KMID-2  
ided plus CCI on 3-4.
- 6-3 Es at tune in. 1300 WUSN-2, 1415 KOOK-26-18 Tr to Pittsburg. CFPL-10 London  
1430 KXLF-4 Butte (1375) varied by perfect at 0130.  
phone. Tuned out at 1500. Tuned  
back in at 1730. KPRC-2 plus 70  
minutes of un-ided audio from  
Mexican ch 2. Probably XEFE...had  
soccer game.  
1945 KWGN-2 plus CCI to ch 5. 2030  
KROD-4 El Paso. All Es in and out  
to 2300. 2315 KWGN-2 Denver.

Tr UHFers to 250 miles east during  
evening.

That's it for now. Thanks for all excellent reports!! Also, thanks to Roger Gravelle  
for his early am phone calls (hi) and to Glenn Hauser for nice note. Finally, special  
thanks to Bob Cooper for incentive, as he shows that about anything is possible if  
one works hard enough with good equipment!! Best DX everyone, 73s Rog





# EASTERN TV DX

Dave Pomeroy  
3556 Rocky Hill Terrace  
Lexington, Kentucky 40503

Next Deadline: July 13

With the continuation of the summer skip season has come a further increase in the number of reporters submitting reports to the Eastern TV-DX column. Although Es dominates the reports for May and June, a few trop openings were also noted.

It is also necessary for me to write that I will be leaving the "Eastern DX Region" at the end of July at which time I will become Promotion Manager for KCSD-19 in Kansas City (DX reports welcomed!). At this time, I do not know what effect this move will have on my editorship of this column, but I will be at this address until August 1 so send reports for the August VUD to the above address.

Now, the reports:

Dick Clark, 4110 Bayview Dr., Ft. Lauderdale, Florida 33308

5-1	Es	0730	WLWD-2	Dayton, OH	5-21	Es	2000	KARD-3	Wichita, KS
		0800	WKZO-3	Kalamazoo, MI	5-30		1130	WCBS-2	New York, NY
		0830	WSAZ-3	Huntington, WV			1200	KDKA-2	Pittsburgh, PA
		2000	WTVN-6	Columbus, OH			1230	KYW-3	Philadelphia
		2030	WKYC-3	Cleveland, OH			1430	WGR-2	Buffalo, NY
		2031	WAVE-3	Louisville, KY			1500	WPSX-3	Clearfield, PA
		2100	WCIA-3	Champaign, IL			1530	WLWD-2	Dayton, OH
5-21		1930	KVOO-2	Tulsa, OK					

Ronald J. LeBlanc, 2524 Arizona Dr., Marrero, Louisiana 70072

6-7	Es		KTCA-2	St. Paul (1055)	6-14	Tr		KBMT-12	Beaumont, TX
		1800	WUNB-2	Columbia, NC				KONO-12	San Antonio
6-11		1835	WUNB-2	Photo (900)		Es	1015	WBAY-2	Green Bay, WI
		2210	WBAY-2	Green Bay, WI	6-16	Tr	2205	WALA-10	Mobile, AL
		2235	WMT-2	Cedar Rapids			2210	KLFY-10	Lafayette, LA
	Tr	2330	WSEF-12	Montgomery, AL			2225	WDAM-7	Hattiesburg
6-12		2045	KTRK-13	Houston, TX			2230	WKRG-5	Mobile, AL
		to	WEAR-3	Pensacola, FL			2300	WLOX-13	Biloxi, MS
		0100	KPRC-2	Houston (321)			2325	KALB-5	Alexandria
			WDAM-7	Hattiesburg			2345	WJTV-12	Jackson, MS
			WKRG-5	Mobile, AL			2405	WEAR-3	Pensacola, FL
			WLBT-3	Jackson, MS			2410	KATC-3	Lafayette, LA
			KPLC-7	Lake Charles	6-17		2000	KLFY-10	Lafayette, LA
			WLOX-13	Biloxi, MS			2035	WALA-10	Mobile, AL
			WJTV-12	Jackson, MS			2100	WEAR-3	Pensacola, FL
			KATC-3	Lafayette, LA			2115	KALB-5	Alexandria
			KALB-5	Alexandria, LA			2135	WKRG-5	Mobile, AL
6-14		2200	KALB-5	Photo (170)			2215	WLOX-13	Biloxi (77)
		to	KATC-3	Lafayette, LA			2245	KLOU-11	Houston, TX
		0100	KPLC-7	Lake Charles			2315	WJTV-12	Jackson, MS
			WLOX-13	Biloxi, MS			2330	KILC-7	Lake Charles
			KPRC-2	Houston, TX			2400	WDAM-7	Hattiesburg
			KTRK-13	Houston, TX					

(Local stations are WWL-4, WDSU-6, WVUE-8, WYES-12 and WWOM-26; Total 113)

Fred Nordquist, 302 Sandra Lane, N. Syracuse, New York 13212 (EST)

2-28	GW	1427	WUTR-20	Utica, NY (45)	4-28	Tr	2230	WNED-17	Buffalo, NY
4-28	Es	2210	KQTV-2	St. Joseph, MO	5-10	Es	2020	UNID-2	to SW (weak)

Bob Seybold, Bennett Road, Dunkirk, New York (EDT)

5-18 Tr peak	WCMU-14 Mt. Pleasant	6-10 Es	KPLO-6	Reliance, SD
at	WCUM-19 Bay City, MI	6-11	WBRZ-2	Baton Rouge
2200	WKNX-25 Saginaw, MI		KTBS-3	Shreveport
	WDHO-24 Toledo, OH		KATC-3	Lafayette, LA
	WGTE-30 Toledo, OH		KALB-5	Alexandria, LA
	WSNS-44 Chicago, IL		WDSU-6	New Orleans
	WNDU-16 S. Bend, IN		WFBC-4	Greenville, SC
	WDAU-22 Scranton, PA		WWL-4	New Orleans
	WQEX-16 Pittsburgh		WKRK-5	Mobile, AL
	WBRE-28 Scranton, PA		WCIV-4	Charleston, SC
	WBJA-34 Binghamton, NY	6-1 to 6-14	WSYE-18	WENY-36
	WENY-36 Elmira, NY	WDAU-22	WBRE-28	WBJA-34
	WINR-40 Binghamton, NY	WINR-40	WKBD-50	WTVS-56
	WSKG-46 Binghamton, NY	WDHO-24	WXON-62	(most days)
	WVIA-44 Scranton, PA	6-1	WHTN-13	WFBM-6
	WKBD-50 Detroit, MI	KYW-3	WJRT-12	WOOD-8
	WTVS-56 Detroit, MI	WJIM-6	WILX-10	WSBT-22
	WXON-62 Detroit, MI	WGN-9	WPGH-53	Pittsburgh
	WHTN-13 Huntington, WV		WFIL-6	Philadelphia
	WZZM-13 Kalamazoo, MI		WMAR-2	Baltimore, MD
	WJRT-12 Flint, MI		WLWI-13	Indianapolis
	WOOD-8 Grand Rapids	6-2	WJIM-6	Lansing, MI
	WJIM-6 Lansing, MI		WJRT-12	Flint, MI
	WKZO-3 Kalamazoo, MI		WOOD-8	Grand Rapids
	WLWC-4 Columbus, OH		WILX-10	Onondaga, MI
	WBNS-10 Columbus, OH		WNDU-16	and WSBT-22
	WTVN-6 Columbus, OH		WSKG-46	and WNEP-16
	WILX-10 Lansing, MI		WGTE-30	Toledo, OH
	WNEP-16 Scranton, PA		WBGU-70	Bowling Gr.
	WLUK-11 Green Bay, WI		WKJG-33	and WPTA-21
	WLS-7, and WGN-9		WTVN-6	Columbus, OH
	WFBM-6 Indianapolis		WANE-15	Ft. Wayne, IN
	WCAU-10 and KYW-3	6-13	WDHO-24	Toledo, OH
	WANE-15, WPTA-21, WKJG-33		WSBT-22	S. Bend, IN
	WJAN-17 Canton, OH		WANE-15	Ft. Wayne, IN
	WNDU-16 and WSBT-22		WKJG-33	Ft. Wayne, IN
	WIMA-35 Lima, OH		WPTA-21	Ft. Wayne, IN
	WSYE-18 Elmira, NY		WOOD-8	Grand Rapids
	WBGU-70 Bowling Green		WILX-10	Onondaga, MI
	WJJY-14 Jacksonville, Illinois		WJIM-6	Lansing, MI
		6-14 (Grade A to 100-200 miles)		
		(Cleveland UHF's excellent)		
			KYW-3 and	WFIL-6
			WLWC-4	Columbus, OH
			WDTV-5	Weston, WV
			WFBM-6	Indianapolis
			WTVN-6	Columbus, OH
			WMAR-2	Baltimore, MD
			WOOD-8	Grand Rapids
			WILX-10	Onondaga, MI
			WCPO-9	Cincinnati
			WBNS-10	Columbus
			WJRT-12	Flint, MI
			WHTN-13	Huntington
			WJAN-17	Canton, OH
			WIMA-35	Lima, OH
			WJIM-6	Lansing, MI
			WLWT-5	Cincinnati

trops all night 5-19

5-20

5-22

5-23

5-24 Es

6-10

Jerry Pulice, 143 Gibson Ave., Staten Island, New York 10308

4-16 Tr	0630	WTOP-9	Washington, DC	4-28 Tr	0750	WMPB-67	Baltimore, MD	
		WTTG-5	Washington, DC			0900	WCVE-23	Richmond, VA
		WBAL-11	Baltimore, MD	5-5		0615	WWBT-12 and WXEX-8	
		WJZ-13	Baltimore, MD	5-6	Es		UNID (Missouri)	
		WGAL-8	Lancaster, PA	5-9		1730	UNID-3	Cuba
		WWBT-12	Richmond, VA			1800	WEDU-3	Tampa, FL
	2015	WNEP-16	Scranton, PA	5-12		2100	UNID (to channel 5)	
		WBRE-28	Scranton, PA	5-19		1830	UNID (to channel 4)	
		WCMC-40	Wildwood, NJ	6-2		1100	WEDU-3	Tampa, FL
4-17	0630	WTTG-5 and WTOP-9		6-8	Tr	0700	WWBT-12	Richmond, VA
		WBAL-11 and WJZ-13					WJZ-13 (MD) & WGAL-8 (PA)	
	2030	WTIC-3	Hartford, CN				WVEC-13	Tidewater, VA
		WTEV-6	Tiverton, RI				WNHC-8	Hartford, CN
		WNHC-8	Hartford, CN				WXEX-8	Petersburg, VA
		WJAR-10 and WPRI-12					WTVR-6	Richmond, VA
		UNID-25	Boston?			2000	Boston (38-44-56)	
		WSBK-38	Boston, MA				Conn. (20-30-49-53)	
		WGBX-44	Boston, MA	6-9		0235	WTIC-3	Hartford, CN
		WKBG-56	Boston, MA				WHDH-5 and WNAC-7	
		WHNB-30	Hartford, CN				WTOP-9	Washington, DC
		WEBW-49	Bridgeport			0600	WBAL-11 and WJZ-13	
4-22	2025	WFBJ-10	Altoona, PA				WWBT-12	Richmond, VA
4-27	Es	UNID					WXEX-8	Petersburg, VA
4-28	Tr	0700	WWBT-12	Richmond, VA			WNHC-8	Hartford, CN
			WNEP-16 and WBRE-28				WGFP-8	High Point, NC
			WDCA-20	Washington, DC	Is	0635	WLAC-5	Memphis, TN
			WVIA-44	Scranton, PA	Tr	0930	WCTI-12	New Bern, NC

David Long, 66 Beattie Ave., Lockport, New York 14094

5-7	Tr	1830	WPSX-3	Clearfield, PA	6-6	Es	1924	WEAR-3	Pensacola, FL
5-11		1800	WJET-24	Erie, PA	6-8	Ms	0600	WSB-2	Atlanta, GA
			WSEE-35	Erie, PA	6-11	Es	1830	WEDU-3	Tampa, FL
			WQLN-54	Erie, PA				WEAR-3	Pensacola, FL
5-19		2145	CKNX-8	Wingham, Ont.			1900	WKRK-5	Mobile, AL
			CKWS-11	Kingston, Ont.				KALB-5	Alexandria, LA
			WNET-5	Saginaw, MI				KATC-3	Lafayette, LA
5-29		0220	WJBK-2	Detroit, MI					(Total now 71 stations)

Mitch Donock, 2921 Brinkley Road, Oxon Hill, Maryland 20031

5-10	Es	1850	KVOO-2	Tulsa, OK	5-30	Es	2115	UNID-2	Spanish
		1852	UNID-2	Roller Derby?	5-31	1	1445	WPBT-2	Miami, FL
		2030	KFDX-3	Wichita Falls			1450	UNID-6	Cuba (Havana?)
		2100	KATC-3	Lafayette, LA			1730	WEDU-3	Tampa, FL
5-13		2000	KTVI-2	St. Louis, MO	6-1		1900	KVOO-2	Tulsa, OK
5-20		1900	WPBT-2	Miami, FL			1918	KOTV-2	St. Joseph, MO
		1910	WEDU-3	Tampa, FL			2100	KTAL-6	Texarkana, TX
5-22	Tr	0600	WRAL-5	Raleigh, NC	6-4		1910	KARD-3	Wichita, KS
5-23		0930	WTVD-11	Raleigh, NC			1912	KVOO-2	Tulsa, OK
		1000	WRDU-28	Raleigh, NC			1915	KCKT-2	Great Bend, KS
		1100	UNID-34	or 35 (NBC)			2000	KTVI-2	St. Louis, MO
5-30	Es	2100	KBTX-3	Bryan, TX			2030	KETS-2	Little Rock, AK

Larry Vogt, 8309 Greeley Blvd., Springfield, Virginia 22152

2-26	Tr	1330	WHAG-25	Hagerstown, MD	5-10	Es	1945	KRMA-6	Denver, CO
4-28	Es	1700	UNID-3	Cuba	5-31		1450	WCIX-6	Miami, FL
			CMJ-4	Camaguey, Cuba			1520	WEDU-3	Tampa, FL
		1730	UNID-6	Cuba	6-1		1900	KVOO-2	Tulsa, OK
			WTHS-2	Miami, FL			1913	KOTV-2	St. Joseph, MO
5-10		1845	KTVC-6	Ensign, KS			1916	KCKT-2	Great Bend, KS

# FCC NEWS + DATA

Gary A. Olson  
1203 Kenton Rd.  
Deerfield, Ill. 60015

TV

## STATIONS OPERATING (AS OF JUNE 1, 1970)

UHF ETV	108
JHF Com	181
VHF ETV	82
VHF Com	510

Total Authorized Stations On The Air 881

### New Stations Reported On The Air:

- WUTR (TV) ch. 20, Utica, NY, reported on air in April
- WMGZ (TV) ch. 16, Mayaguez, P.R., reported testing in April
- KTVM-TV, ch. 6, Butte, Mont., (satellite of KGVO-TV) NBC, reported on the air, 100 kw.
- KDUB-TV, ch. 40, Dubuque, Ia., ABC, 537 kw., on air June 1st
- \*WNIN-TV, ch. 9, Evansville, Ind., reported on air in May

### New Target Dates Reported:

- \*NJNT (TV) ch. 52, Trenton, N.J., fall 1970
- WRTV (TV) ch. 58, Newark, N.J., mid-1971
- WFCB (TV) ch. 45, Miami, Fla., late fall 1970

### Miscellaneous Changes Reported:

- WYES-TV ch. 8 and WVUE-TV ch. 12 switched channels effective June 8th. The new WYES-12 will be 134 kw. and WVUE-8 will be 316 kw.

CMQ-2 (Cuban television) is now operating under the call of ICR

### Stations Reported Off The Air:

- KHAR-TV, ch. 13, Anchorage, Alaska, left the air May 21st
- WSMS-TV, ch. 51, Ft. Lauderdale, Fla., is off the air and will not return as previously expected

## FCC COMPLETED ACTION

### Call Letter Changes:

- NJRJ-TV, ch. 17, Atlanta, Ga., to WTCG (TV)
- KRLD-TV, ch. 4, Dallas, Tex., to KDFW-TV
- WCTU-TV, ch. 36, Charlotte, N.C., to WRET-TV

### New Call Letters Issued:

- Stockton, Calif., ch. 53, granted KAJC-TV
- \*Winston-Salem, N.C., ch. 26, granted WUNL-TV

### Other Changes Allowed:

- WTVC (TV) ch. 9, Chattanooga, Tenn., ERP to 31.6 kw.
- KVRL (TV) ch. 29, Houston, Tex., ERP to 1660 kw. - ant. to 940'

\*\*\*\*\*  
\* Thanks To: \*  
\* D. Clark \*  
\* M. Goldman \*  
\* for their \*  
\* contributions \*  
\* to the column \*  
\* this month! \*  
\* \*  
\* \*  
\*\*\*\*\*

- \*State College, Miss., ch. 2 (Miss. ETV Authority) ant. to 1254'
- KTVM (TV) ch. 6, Butte, Mont., - ant. to 1936 kw.
- KFBB-TV, ch. 5, Great Falls, Mont., ant to 590'
- Dothan, Ala, ch. 18, ERP to 398 kw. - ant. to 730'
- KPAX-TV, ch. 8, Missoula, Mont., ERP to 276 kw. - ant. to 2150'
- \*WSNP-TV, ch. 9, Grandview, Va., ERP to 316 kw.
- \*WJCT (TV) ch. 7, Jacksonville, Fla., ERP to 302 kw.

## ACTION APPLIED FOR OR REQUESTED

### Applications For New Stations:

- Mt. Vernon, Ill., ch. 13 (Soillcom Inc.) 316 kw. - ant 757'

### Misc. Requests:

FCC is requesting channel shift: for operating ch. 70 at Bowling Green, Ohio, and ch. 77 Glen Ridge, NJ. Plan calls for deleting ch. 54 at Toledo and giving it to WBGU-TV.

## TIDBITS AND MISCELLANEOUS ITEMS OF INTEREST TO TV DXERS

The FCC has authorized a change in the ETV reservation at Marquette, Mich., from ch. 19 to ch. 13

(continued next page)

- # The FCC startled the DXing world with the news that they are reversing their earlier decision on land-mobile use of UHF. Now it appears that land-mobile radio users will be allowed to share two UHF channels in each of the U.S.' ten largest cities. The channels (none of which are occupied) are all between ch. 14 and 20. In addition the translator range (ch. 70-83) will be allocated to land mobile use - although television translator stations will be allowed to continue to operate on those frequencies. No new TV stations will be authorized on ch. 70-83.
- # WGSF (TV) ch. 28, Newark, Ohio, has been approved for a shift to channel 31. New power would be 4.68 kw.
- # The FCC has backed a reduction in prime time offerings by the networks to affiliates. This means more local programs in the evening (and better opportunities to ID DX stations).
- # Sharetimers in Miami will operate as follows on ch. 2: WTHS-TV Mon-FRI (3-4 PM); WPBT (TV) Mon-FRI (5-11 PM), Sat. (8-12 AM), Sun. (3-11 PM).
- # The FCC has changed its guidelines to allow station permittees 18 months to build their station after receiving a CP.
- # WBBH-TV, ch. 20, Ft. Myers, Fla. is now an all-niter on Friday and Saturday nights. WPLG-TV, ch. 10, Miami, has given up all-nite movies for the present.
- # Utah will shut down three of its five operating ETV stations. KUSU-TV ch. 12, KOET (TV) ch. 9, and KNCS-TV ch. 18 will leave the air. KBYU-TV ch. 11 and KUED-TV ch. 7 will continue to operate.

\*\*\*\*\*

## DX MAILBAG

An abbreviated version of the mailbag this month. What with the summer DX (what DX?) and planning for the convention, etc., we'll keep it short and sweet in the merry month of July.

New members this time around include:

Ronald J. LeBlanc, 2524 Arizona Dr., Marrero, La. 70072  
 Virginia Lyle, 3050 3rd Ave., N. St. Petersburg, Fla. 33713  
 Richard Galasso, 2933 Carman St., Camden, NJ, 08105  
 Joseph Kureth Jr., 9233 J. Stayman Dr., Ellicott City, Md. 21043  
 David Ronecker, 212 Yale Ave., San Antonio, Tex., 78201  
 Frank Aden, 5805 Flamingo Ave., Boise, Idaho, 83704  
 Joseph O. Sarff, RR #1, Box 80, Pecatonica, Ill., 61063  
 William A. Matthews, PO Box 15306, Columbus, O. 43215

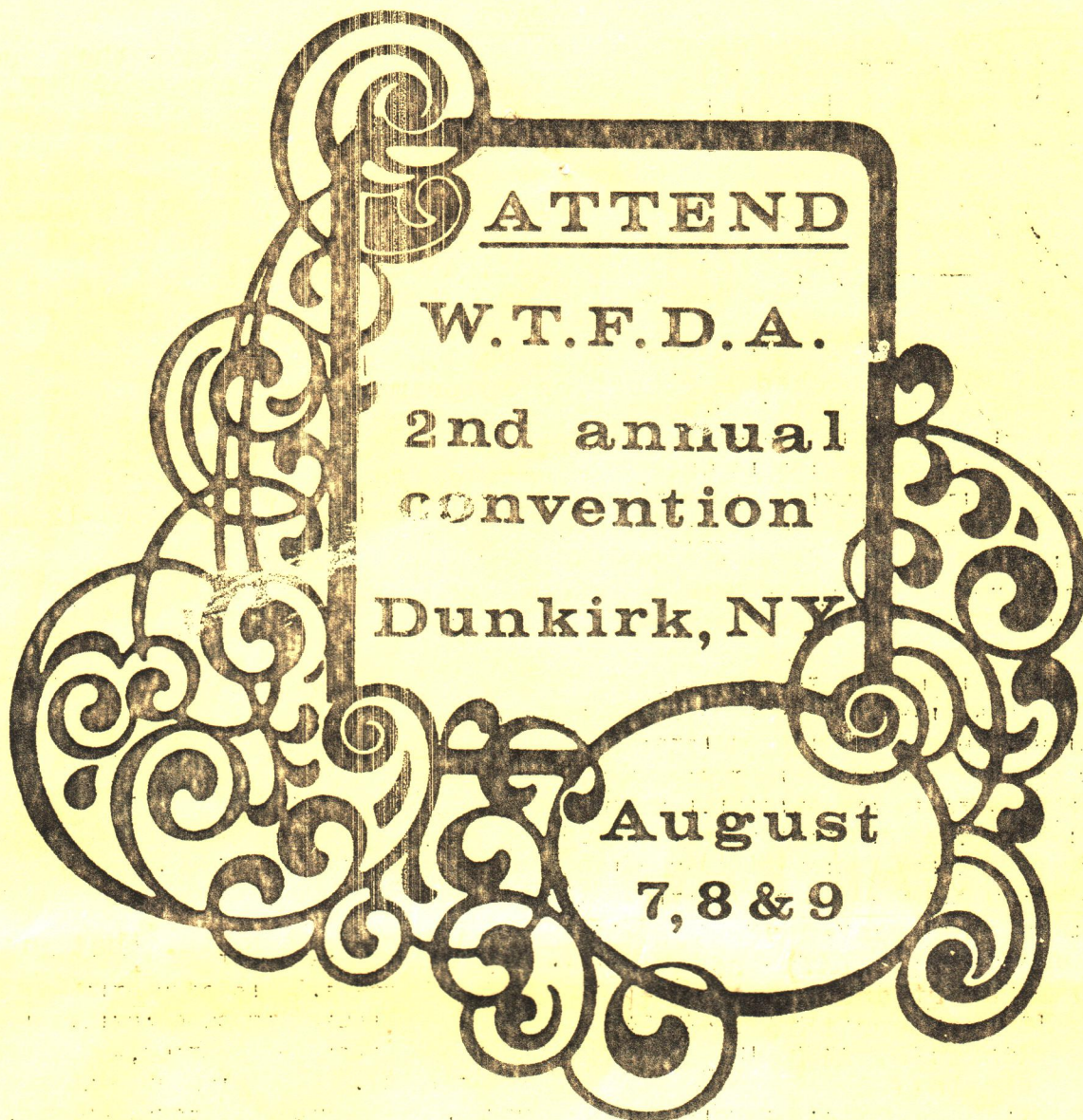
Late renewals include:

Bill Eckberg	Bill Migley	Rog Winsor
Al Kopec	Dave Swanson	Fred MacCormack
Thomas Henry (2 years)		

The welcome contributions of Waldo Bishop (\$9), Dave Swanson (\$5.50), Dick Clark (\$10), Verrell Tallet (\$3), and Bill Draeb (\$2) among others have been added to the mimeo fund. These donations have been immensely helpful in paying for our new machine; without these sacrifices your TV-FM DX Club would have been on an extremely tight budget this summer. After our new possession is correctly set up, I think you will feel the contributions were well worth while fellas. Many thanks!

We mentioned Dave Swanson's generosity a moment ago. Dave -- in his usual good natured manner -- says in regard to membership renewal "OK, .OK, I concede. Here's my ante for one more year..." It seems as though our mailing staff uses a red stamp to indicate expiration of membership. Dave is a little embarrassed that the postman and all his peepy neighbors now know he waits till the last second to renew his WTFDA membership. HEY. What about you -- is your membership up???

See you all at the convention. And if you can't make it, we have a date here at the mailbag next month as your consolation prize!



CONVENTION PLANS CONTINUE TO PROGRESS FOR THE 1970 WTFDA CONVENTION. HOST BOB SEYBOLD REPORTS THAT RESPONSE HAS BEEN EXCELLENT TO THE REGISTRATION FORM, AND SEVERAL DXERS HAVE OFFERED RIDES TO THE CONVENTION. IF YOU HAVEN'T MAILED IN YOUR FORM YET, AND PLAN TO ATTEND THE CONVENTION, PLEASE SEND YOUR FORM TO BOB AS SOON AS POSSIBLE. COMPLETE CONVENTION DETAILS AND ROAD DIRECTIONS CAN BE FOUND IN LAST MONTH'S VHF-UHF DIGEST.

BILL GRANT OF WORCESTER, MA OFFERS A RIDE TO ANYONE IN MA, AS LONG AS THEY COME TO WORCESTER. ALSO, ANYONE IN NY STATE NEAR EXITS OF NEW YORK STATE THRUWAY (INTERSTATE 190). ANYONE INTERESTED SHOULD CONTACT BILL GRANT AT 16 GOULDING STREET, WORCESTER, MA 01609 AND BOB SEYBOLD. ANYONE NEEDING A RIDE IN THE S. ONTARIO AREA SHOULD CONTACT WAYNE PLUNKETT AT 124 JOHN STREET, WESTON, 492, ONT. AND BOB. MARK KOZLOWSKI OF 306 RIVERSIDE AVENUE, BUFFALO, NY 14207, OFFERS BUFFALO AREA DXERS A RIDE OR TO ANYONE ARRIVING AT THE BUFFALO AIRPORT. IN A SLIGHTLY DIFFERENT POSITION IS RICHARD BARTH, 51 LINN DRIVE, VERONA, NJ 07044. RICHARD IS IN NEED OF A RIDE. ANYONE THAT CAN HELP SHOULD CONTACT RICHARD AND BOB SEYBOLD.

IF YOU HAVE NOT STARTED TO THINK ABOUT ATTENDING THE CONVENTION YET, DON'T WASTE ANY TIME; THERE ISN'T MUCH LEFT.

SOME OF THE GREATEST TV-FM DXERS IN THE WORLD WILL BE ATTENDING THE CONVENTION... WILL YOU BE ONE OF THEM?

# CONVENTION:

## A.N.A.R.C.

THE FIFTH ANNUAL ANARC CONVENTION WILL BE HELD JULY 31, AUGUST 1-2, 1970 AT THE LAKE TOWER INN, LAKE SHORE DRIVE AT OHIO STREET IN DOWNTOWN CHICAGO, ILLINOIS---CONVENTION CAPITAL OF THE WORLD. THE INN IS LOCATED ON THE LAKEFRONT WITHIN WALKING DISTANCE TO DOWNTOWN. A FREE BUS TO THE LOOP IS AVAILABLE TO ALL REGISTERED GUESTS. THERE ARE PARKING FACILITIES AT THE INN AND ELSEWHERE NEARBY. WE ALSO HAVE USE OF THE SWIMMING POOL!

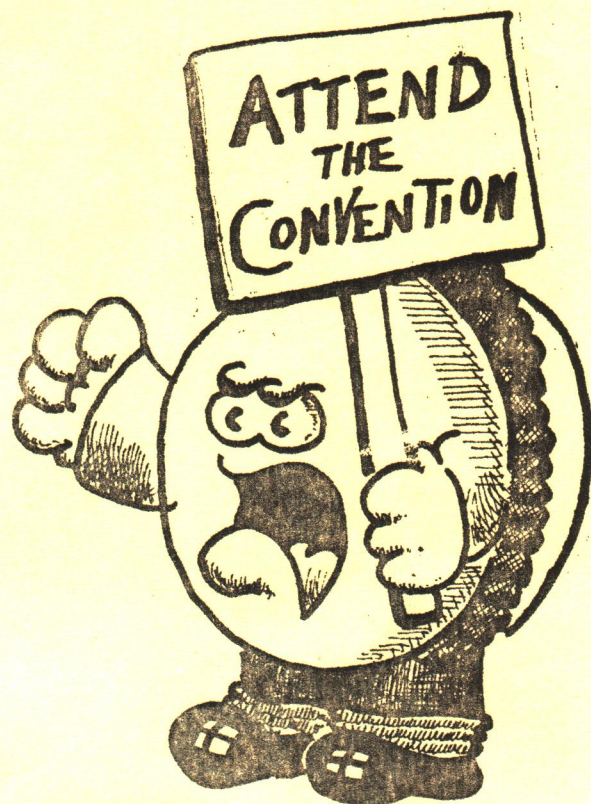
RATES FOR SINGLES AT THE LAKE TOWER INN ARE \$17 PER NIGHT, AND TWIN DOUBLES ARE \$23 PER NIGHT. THE CONVENTION REGISTRATION FEE INCLUDES THE SATURDAY NIGHT BANQUET, THE SUNDAY BREAKFAST, AND ELIGIBILITY FOR ONE OF THE PRIZES. ALL REGISTRATION FEES SHOULD BE SENT TO CONVENTION CHAIRMAN JERRY HEIEN, AND RESERVATION CARDS FOR ACCOMMODATIONS ARE ALSO AVAILABLE FROM JERRY. COSTS FOR 3 IN A ROOM CAN BE ARRANGED I'M SURE, AT LOW RATES.

ON THE PROGRAM IS A SCHEDULED TOUR OF THE WGN RADIO AND TV COMPLEX ON SATURDAY MORNING. THE BANQUET SPEAKER WILL BE NAMED LATER.

FREE RADIO, TV, AND AIR CONDITIONING IN ALL ROOMS, BY THE WAY.

THE CONVENTION WILL OFFICIALLY START AT 5 PM FRIDAY NIGHT WITH THE HOSPITALITY ROOM OPENING. PARKING FACILITIES ARE AVAILABLE FREE TO THOSE ATTENDING BUT NOT REGISTERED AS HOTEL GUESTS. THOSE ATTENDING AND COMING IN BY AIR CAN TAKE AN AIRLINE BUS FROM O'HARE.

ANARC REPRESENTATIVES OF THE MEMBERS CLUBS ARE ESPECIALLY INVITED TO ATTEND SO THAT AN OFFICIAL ANARC MEETING CAN BE HELD.



REMEMBER YOU NEED NOT BE A MEMBER OF AN ANARC CLUB TO ATTEND. THIS CONVENTION IS OPEN TO ALL DXERS REGARDLESS OF CLUB AFFILIATION. COME ON DOWN AND ENJOY THE DX TALK, AND MEETING OLD AND NEW FRIENDS. WFDX WILL BE WELL REPRESENTED AS USUAL. BRING YOUR LOGBOOKS, PHOTOS, TAPES, VERIES, ETC. ESPECIALLY IF YOU CAN'T MAKE THE 2ND ANNUAL WFDX CONVENTION THE FOLLOWING WEEKEND, BE SURE TO ATTEND THIS CONVENTION. OR MAKE BOTH EVENTS IF YOU POSSIBLY CAN. IT WILL BE WELL WORTH THE EFFORT AS MOST DXERS ADMIT WHO HAVE ATTENDED PAST CONVENTIONS. SEE YOU THERE!

CONVENTION CHAIRMAN: JERRY HEIEN  
3822 MARSHALL COURT  
BELLWOOD,  
ILLINOIS-60104

# STATISTICS

Glenn Hauser, editor

JULY

Box 1466

AP0 San Francisco 96288

1970

## CHANNEL 3 MS DX RECORDS

Call	Location	Miles	DXer	Location	Comments
WEAR	Pensacola FL (AL)	800	Steve Weinstein,	Pittsburgh PA	
WUBL	Columbus Ga. (AL)	840	Bill Draeb,	Kewaunee WI	now in GA
KTVK	Phoenix AZ	870	Richard Lowry,	Temple TX	
KIEM	Eureka CA	880	Jim Grover,	Crossfield Alta	
KCRA	Sacramento CA	545	Doris Johnson,	Longview WA	
KEYT	Santa Barbara CA	775	Ed Hepp,	Portland OR	
WTIC	Hartford CT	990	Jerry Dee,	Waterloo IA	was Easter
WSAV	Savannah GA	925	Bill Draeb,	Kewaunee WI	
KID	Idaho Falls ID	1000	Ken Neal,	Hamlin TX	
WCIA	Champaign IL	1020	Ghislain Girard,	Arvida PQ	
WAVE	Louisville KY (IN)	1030	Ed Sparks,	Odessa TX	
KGLO	Mason City IA	1045	John Cody,	Middletown CT	
KARD	Wichita KS	1330	John Cody,	Middletown CT	
KTBS	Shreveport LA	1040	Robert Seybold,	Dunkirk NY	
WKZO	Kalamazoo MI	910	Ed Bourgeois,	Norco LA	
KDAL	Duluth MN	1465	Doris Johnson,	Longview WA	
WLBT	Jackson MS	1250	Fred McCormack,	Des Lacs ND	
KTVO	Kirksville MO	695	Fred McCormack,	Des Lacs ND	
KYTV	Springfield MO	1115	John Cody,	Middletown CT	
KMTV	Omaha NB	830	Pat Dyer,	San Antonio TX	
USYR	Syracuse NY	1235	Glenn Hauser,	Enid OK	
WBTV	Charlotte NC	950	Glenn Hauser,	Enid OK	
KYW	Cleveland OH	1100	Carlton Howington,	Homestead FL	now WKYC
KYU	Philadelphia PA	705	Bill Draeb,	Kewaunee WI	was WRCV
KDLO	Garden City SD	1265	John Cody,	Middletown CT	
KOTA	Rapid City SD	1175	James Habermehl,	Clarington OH	
WRGP	Chattanooga TN	810	John Cody,	Middletown CT	now WRCB
WREC	Memphis TN	645	Steve Weinstein,	Pittsburgh PA	
KBTX	Bryan TX	1135	Steve Weinstein,	Pittsburgh PA	
KFDX	Wichita Falls TX	1105	Steve Weinstein,	Pittsburgh PA	
WSVA	Harrisonburg VA	295	Richard Nieman,	Buffalo NY	
WTAR	Norfolk VA	1135	Ed Shorey,	Derby KS	
WSAZ	Huntington WV	1095	Jim Himes,	Joes CO	
WISC	Madison WI	905	Ed Bourgeois,	Norco LA	
CFRN	Edmonton Alta	875	Eddie Albright,	Medford OR	
"CBWFT"	Winnipeg Man	975	Robert Cooper,	Oklahoma City OK	was ch 6
CJBR	Rimouski PQ	845	James Habermehl,	Clarington OH	
CKOS	Yorkton Sask	1135	Charles Wood,	Ashland OR	
CMH	Santa Clara Cuba	1260	Richard Lowry,	Temple TX	now off
XEM	Mexicali BCN	1010	Doris Johnson,	Longview WA	

Please check the list carefully. YOU may well have some records, especially for several stations for which no meteor scatter reports at all were found (omitted from the list).

### ADDITIONS AND REVISIONS

Bill Heusmann, delving into old AIPA bulletins and other sources, has uncovered quite a number of "new" records. Some appear here; many more will in months to come. The June VUD kept us plenty busy, though!

2	KOAI	Flagstaff AZ	1370	Ferdinand Dombrowski,	Milwaukee WI	
	USB	Atlanta GA	MS 775	Richard Lowry,	Temple TX	Cooper 755
	KCKT	Great Bend KS	1460	Roy Barstow,	Hyde Park MA	Kadet 1455
	WBRZ	Baton Rouge LA	MS 1340	Armand Pelland,	Woonsocket RI	
				Schafer & W.	Nieman1095	
			T 745	Dick Clark,	Ft Lauderdale FL	Hauser 565



2	"CBUT"	Vancouver BC	MS	890	Robert Cooper, Fresno CA	new
	CKCK	Regina Sask	AE	2190	Robert Mellen, mobile (Ice Island T-3, Arctic Ocean @ 71°52'N/160°20'W)	Boyd 1920
	XEFE	Nuevo Laredo Tams		1350	Roger Brown, East Lansing MI	Janowiak 1250
		Panama Panama	F2	2180	Robert Cooper, Oklahoma City OK	Cooper 1150
3	WRBL	Columbus GA	T	510	Dick Clark, Ft Lauderdale FL	new
	WCIA	Champaign IL	T	590	Robert Cooper, Oklahoma City OK	Hauser 570
	KDAL	Duluth MN	AE	2630	Robert Mellen, mobile (as above)	Simkin 1575
	KLNE	Lexington NB	T	355	Robert Cooper, Oklahoma City OK	Hauser 290
	WLWC	Columbus OH		1160	Laurence Pickerell, Longmont CO	Ballew 935
	KVDO	Salem OR	T	45	Mike Northam, Lake Grove OR	new
	KFDX	Wichita Falls TX	T	230	Robert Grace, Franklin TX 77856	Hauser 180
	"CBWT"	Winnipeg Man	AE	2330	Robert Mellen, mobile (as above)	Cooper 1430
	(GMQ)	Holguin Cuba	T	450	Dick Clark, Ft Lauderdale FL	new
	XHCV	Coatzacoalcos Ver		1430	Leslie Prus, Manhattan KS	Cooper 1195
4	WLWT	Cincinnati OH		1085	Laurence Pickerell, Longmont CO	Dubreuil 730
	CHSJ	St John N B	T	330	Gene DeLorenzo, Hyannis MA	Sundstrom 130
	(XEW)	Tampico Tams	T	490	Pat Dyer, San Antonio TX	new
5	WOI	Ames IA	T	490	Robert Cooper, Oklahoma City OK	Hauser 445
	KHAS	Hastings NB	T	355	Robert Cooper, Oklahoma City OK	Hauser TIE
6	WCIV	Tallahassee FL	T	855	Don Ruland, San Antonio TX	Howington 415
	KHPL	Hayes Center NB	T	400	Robert Cooper, Oklahoma City OK	Hauser 340
	XET	Monterrey NL	T	280	Pat Dyer, San Antonio TX	new
7	KMNE	Bassett NB		480	Robert Cooper, Oklahoma City OK	new
8	WXGA	Waycross GA		370	Dick Clark, Ft Lauderdale FL	Kadet 25
	KPTS	Hutchinson KS		175	Robert Cooper, Oklahoma City OK	new
	KGNS	Laredo TX		290	Robert Grace, Franklin TX	Dyer 215
	(GMAB)	Holguin Cuba		450	Dick Clark, Ft Lauderdale FL	Howington 430
9	WINN	Evansville IN (KY?)		165	Dave Pomeroy, Lexington KY	new
	KPNE	North Platte NB		425	Robert Cooper, Oklahoma City OK	new
10	XHX	Monterrey NL		280	Pat Dyer, San Antonio TX	280
12	KIIN	Iowa City IA		105	Bill Heusmann, Des Moines IA	new
	XHAW	Monterrey NL		280	Pat Dyer, San Antonio TX	new
14	WABW	Pelham GA		860	Don Ruland, San Antonio TX	new
	WEBA	Allendale SC		490	Dick Clark, Ft Lauderdale FL	Cox 385
15	WOWL	Florence AL		560	Robert Cooper, Oklahoma City OK	new
	WDCO	Cochran GA		470	Dick Clark, Ft Lauderdale FL	new
	KAMU	Bryan TX		25	Robert Grace, Franklin TX	now off; new
	WMIV	Madison WI		675	Robert Cooper, Oklahoma City OK	Seybold 510
16	WUSF	Tampa FL		190	Dick Clark, Ft Lauderdale FL	new
	WBOC	Salisbury MD		355	Roy Barstow, Hyde Park MA	Seybold 345
17	WJKS	Jacksonville FL		295	Dick Clark, Ft Lauderdale FL	new
18	WLEX	Lexington KY		740	Robert Cooper, Oklahoma City OK	Draeb 470
19	WXIX	Cincinnati OH		750	Robert Cooper, Oklahoma City OK	Draeb 400
	KXIX	Victoria TX		465	Robert Cooper, Oklahoma City OK	new
21	WHA	Madison WI		675	Robert Cooper, Oklahoma City OK	Seybold 510
26	KYNE	Omaha NB		405	Robert Cooper, Oklahoma City OK	Pomeroy 165
27	WKYT	Lexington KY		740	Robert Cooper, Oklahoma City OK	Draeb 470
31	WMBD	Peoria IL		630	Robert Cooper, Oklahoma City OK	(Buffalo) 565
33	WCFT	Tuscaloosa AL		595	Robert Cooper, Oklahoma City OK	Cox 30
44	WTOG	St Petersburg FL		190	Dick Clark, Ft Lauderdale FL	new
	WSNS	Chicago IL		180	Bill Draeb, Kewaunee WI	new
70	K70--	Ottumwa IA		470	Robert Cooper, Oklahoma City OK	new KHQA 7
	K70DB	Clarendon TX		190	Robert Cooper, Oklahoma City OK	new
71	W71AE	LaSalle IL		605	Robert Cooper, Oklahoma City OK	Dombrowski 130
	K71BJ	Mooreland OK		105	Robert Cooper, Oklahoma City OK	new
	K71BK	Hansford Cnty TX		200	Robert Cooper, Oklahoma City OK	new
73	K73BJ	Mooreland OK		105	Robert Cooper, Oklahoma City OK	new
	K73BK	Hansford Cnty TX		200	Robert Cooper, Oklahoma City OK	new
	K73AV	Turkey TX		190	Robert Cooper, Oklahoma City OK	new

74	K74BY Atlantic IA	430	Robert Cooper, Oklahoma City OK	new	WOI 5
	K74CQ Marceline MO	385	Robert Cooper, Oklahoma City OK		Pomeroy 135
	K74BF Arnett OK	130	Robert Cooper, Oklahoma City OK	new	
	K74CJ Clarendon TX	190	Robert Cooper, Oklahoma City OK	new	
75	K75BM Mooreland OK	105	Robert Cooper, Oklahoma City OK	new	
	K75BN Hansford Cnty TX	200	Robert Cooper, Oklahoma City OK	new	
	K75AV Wellington TX	150	Robert Cooper, Oklahoma City OK	new	
76	K76BZ Ottumwa IA	470	Robert Cooper, Oklahoma City OK		Romeroy 180
	K76CA Marceline MO	385	Robert Cooper, Oklahoma City OK	new	KCMO 5
	K76BD Booker TX	175	Robert Cooper, Oklahoma City OK	new	
	K76CL Bryan TX	25	Robert Grace, Franklin TX		KCEN 6
	K76AU Shamrock TX	140	Robert Cooper, Oklahoma City OK	new	
77	K77BI Alva OK	100	Robert Cooper, Oklahoma City OK		Smith 15
78	K78-- Keosauqua IA	470	Robert Cooper, Oklahoma City OK	new	KHQA 7
	K78BX Marceline MO	385	Robert Cooper, Oklahoma City OK		Pomeroy 135
	K78AZ Matador TX	210	Robert Cooper, Oklahoma City OK	new	KCBD 11
	K78AP Miami TX	170	Robert Cooper, Oklahoma City OK	new	
	K78CM Shamrock TX	155	Robert Cooper, Oklahoma City OK	new	
79	K79AZ Alva OK	100	Robert Cooper, Oklahoma City OK		Smith 15
	K79-- Cheyenne OK	115	Robert Cooper, Oklahoma City OK	new	
80	K80BT Seiling OK	85	Robert Cooper, Oklahoma City OK	new	
	K80AY Booker TX	175	Robert Cooper, Oklahoma City OK	new	
81	K81AW Dubuque IA	605	Robert Cooper, Oklahoma City OK	new	KHQA 7
	K81AN Alva OK	100	Robert Cooper, Oklahoma City OK		Smith 15

Obviously the time of translators as DX has arrived; not only do we have some fantastic distances here, but some are revisions of previous records; may there be more.

TV RANK

Name, Location	Stations	States	Provinces	Countries	As of 1970 Date
Robert Seybold, Dunkirk NY	465	49	?	6	26 March
Gary Olson, N.E. IL	265	?	?	?	30 March
Fred Nordquist, everywhere	264	38+DC	6	4	7 February
Bill Heusmann, Steger IL	235	35	6	3	
Frank Wheeler, Erie PA	*226	32+DC	9	3	27 February
Pat Dyer, TX and CA	130	33	2	5	30 April
Pat Dyer, TX	127	33	2	5	28 February
Gary Olson, Bloomington IL	121	?	?	?	30 March
Fred Nordquist, W.S.M.R. NM	115	26	3	3	7 February
Pat Dyer, San Antonio TX	114	33	1	5	30 April
Gary Olson, Champaign-Urbana IL	113	?	?	?	30 March
Fred Nordquist, Syracuse NY	69	10	2	2	7 February
Fred Nordquist, Rochester NY	59	18	2	2	7 February
Bill Heusmann, Des Moines IA	47	11	0	3	
*Roger Brown, East Lansing MI	223	37	5	4	13 May

FM RANK

Bill Bens, Cincinnati OH	464	24+DC	2	2	1 April
Robert Seybold, Dunkirk NY	335	28	4	2	26 March
Fred Nordquist, Syracuse NY	113	12	2	2	7 February
Frank Wheeler, Erie PA	75	4	1	2	27 February

I hope that the rank arrangement will now suit more of you and we may have many more reports. Please be sure to submit your rank totals on a separate sheet or card from other material. Apologies to anyone missed because the stats were included in a letter which was filed elsewhere. Until a few of the "giants" compile their totals, there doesn't seem much point in numbering the ranks. We should gradually build up a good sized list. Report when you please and update as often as you can.

# THE EUROPEAN SCENE

ROGER BUNNEY, TRELAWNE, CUPERNHAM LANE, ROMSEY, HANTS, SO5 8JH, ENGLAND

FROM MY RESULTS TO DATE, THE EXPECTED SPORADIC E SEASON HAS MADE A VERY LATE START THIS YEAR. WITH THE CONTINUED SUNSPOT ACTIVITY REMAINING AT A HIGHISH LEVEL, WITH A VERY SLOW FALLING NUMBER, POSSIBLY THIS CAN ACCOUNT FOR THIS LATE START. WHATEVER THE REASON, THE SEASON, SUCH AS IT HAS BEEN SO FAR, DID NOT REALLY GET UNDER WAY UNTIL ABOUT MID-MAY, AND EVEN SO THERE HAVE BEEN LONG PERIODS BETWEEN OPENINGS. TO LIST THE BETTER DAYS:

17TH MAY- USSR 01, 02

24TH - TVE E2, 3, 4. DURING THE AFTERNOON THEY CARRIED AN OB FROM ITALY, OF A CYCLE RACE. INCLUDED IN THIS WERE SOME REALLY SPECTACULAR SHOTS FROM A MOTOR BIKE CAMERA, FOLLOWING THE CYCLISTS DOWN A ZIG-ZAG MOUNTAIN PASS ROAD. ALSO RAI, 1B AS ABOVE, HUNGARY (MT) 01, NORWAY E2. (NRK)

25TH - ORTF CH F2, BASTIA, CORSICA, RAI 1A (23)

2ND JUNE- POLAND 01, 02 (TVP)

4TH - ?? FOOTBALL 01, 2, 3, RAI 1A, ORTF F2

7TH - TVE E3, RAI 1A, 1B

13TH - USSR 01, RAI 1Ax2, 1Bx2, PORTUGAL (RTP) E2, ORTF F\$, TVE E2, ICELAND E4 TEST CARD @ 1655 GMT, NORWAY (NRK) E2, 3, 4, SWEDEN, E3, 4 TROPS THIS DAY- NOS E4, W. GERMANY E9, ?? E5 COLOUR BARS TO SE.

14TH - POLAND 01, RAI 1A, ORTF F2, 4, TVE E2, 3, 4, CZECH 01. TROPS- E. GERMANY (DFF) E6 (520 MI) DUCTING SIGNAL, AS NO WEST GERMANS ABOUT. ORTF- PARIS 22, CAEN 25, ROUEN 33, LEHAMBRE F7, RENNES F5, ROUEN F10, CHERBOURG F12.

TVE SPAIN WERE NOTED ON 14TH CARRYING A NEW TYPE TEST CARD. THIS IS THE ONE I RECEIVED BACK IN WINTER/SPRING, AND MENTIONED ITS SIMILARITY TO THE OLD DFF CARD, WITH THE PROMINENT BLACK AND WHITE CONCENTRIC CIRCLE, BUT AT THAT TIME WE WERE UNABLE TO ID IT. THE OTHER NEW CARD, AN ELECTRONIC CARD WHICH HAS BEEN FLUTTERING AROUND ON 01/E2A LOOKS AS IF ORIGINATING FROM AUSTRIA OR HUNGARY, MOST LIKELY AUSTRIA (ORF). A LETTER, IF ANSWERED BY ORF WILL BE TO HAND SHORTLY, TO CONFIRM.

ON SEVERAL OCCASIONS IN THE PAST FEW WEEKS, DURING TIMES AT WHICH NO SPORADIC E WAS PRESENT, GOOD QUALITY A.M. SOUND HAS BEEN HEARD AT 46 MC/S, APPROXIMATELY DUE SOUTH. POSSIBLY AN HARMONIC, IT IS IN AN UNKNOWN LANGUAGE, BUT SIMILAR TO EAST EUROPEAN. ON 7TH JUNE, VERY STRONG HARMONIC OF AN A.M. RADIO TRANSMITTER WERE HEARD, CARRYING ARABIC MUSIC, NEWS, ETC., ON 60.75 MC/S, APPROX. THIS INDICATES THAT AS SOON A NORTH AFRICAN COUNTRY OPENS UP IN BAND 1, RECEPTION HERE SHOULD INCLUDE A NEW CONTINENT. ONLY ONCE HAS AN AFRICAN COUNTRY (NIGERIA-ENUGU E2) BEEN RECEIVED IN THE U.K.

IT IS MY INTENTION IN THIS COLUMN TO GRADUALLY INTRODUCE ABBREVIATIONS FOR BROADCASTING ORGANIZATIONS, TO SAVE TIME AND SPACE. YOU WILL NOTE I HAVE INCLUDED SOME ABOVE, A MORE COMPLETE LIST IS SET OUT BELOW:

BBC- BRITISH BROADCASTING CORPORATION, U.K.

DFF- DEUTSCHER FERNSEHFUNK, EAST GERMANY (AS THERE ARE SO MANY ORGANIZATIONS IN WEST GERMANY, WE USUALLY JUST INDICATE WG).

RTE- RADIO TELEFIS EIREANN, EIRE

NRK- NORSK RIKSRINGKASTING, NORWAY

SVERGE- SVERIGES RADIO, SWEDEN

BRT- BELGISCH RADIO EN TELEVISIE, BELGIUM (RTB IS THE OTHER BC ORGANIZATION)

ORTF- OFFICE DE RADIODIFFUSION-TELEVISION FRANCAISE, FRANCE

NOS- NEDERLANDSE OMROEP STICHTING, HOLLAND

RTP- RADIOTELEVISAO PORTUGUESA, PORTUGAL

TVE- TELEVISION ESPANOLA, SPAIN

RAI- RADIOTELEVISIONE ITALIANA, ITALY

JRT- RADIO-TELEVISION YUGOSLAVIA, YUGOSLAVIA

ORF- OSTERREICHISCHER RUNDfunk, AUSTRIA

MT- MAGYAR RADIO ES TELEVIZIO

TVP- POLSKIE RADIO TELESIZJA, POLAND

GOOD DX,

*Roy*