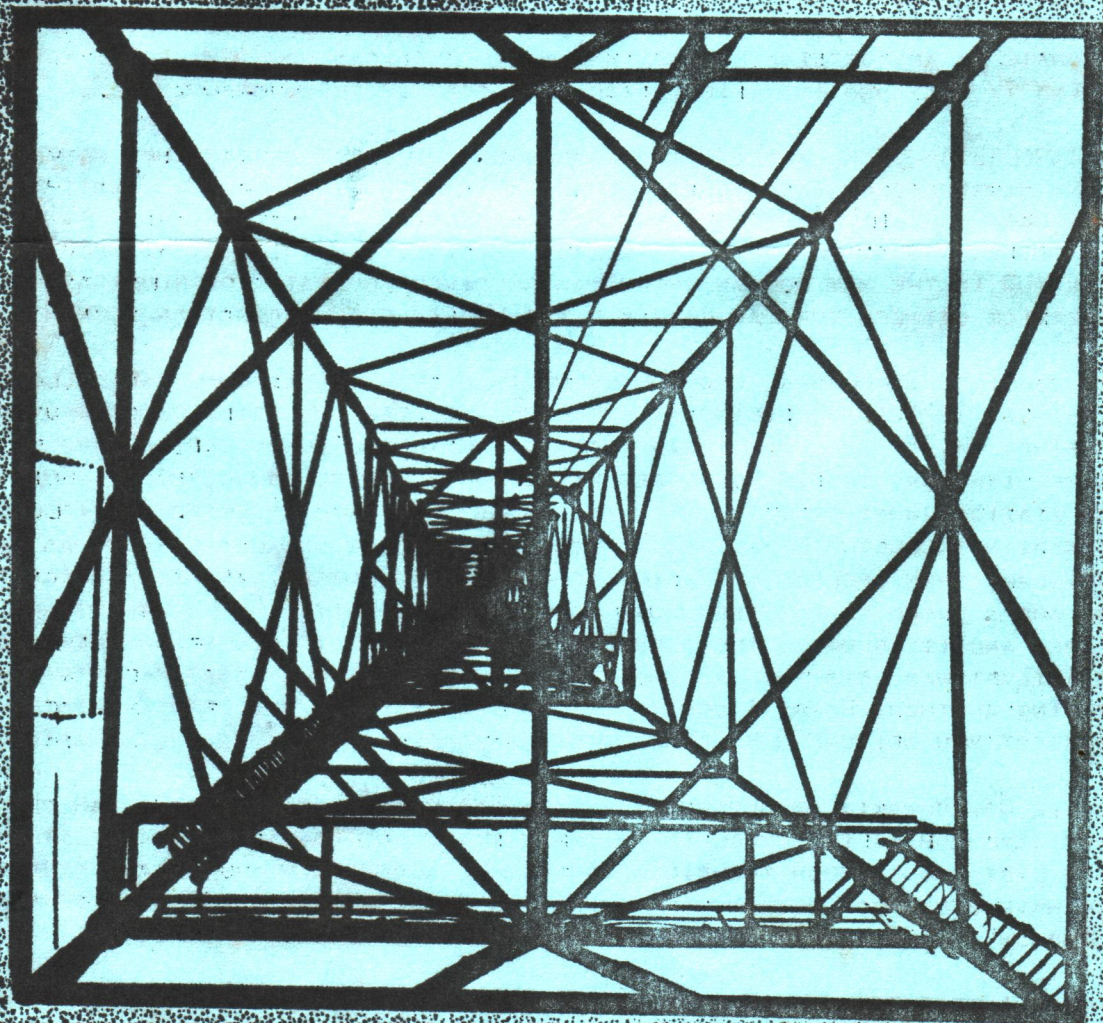


VHF·UHF DIGEST

June



PRESIDENT'S

MESSAGE

THE FOLLOWING BACK-ISSUES ARE STILL AVAILABLE :

OCT. 68 JULY, AUG., NOV., DEC. 1969 ALL 1970

INDICATE ALTERNATES IF SOLD OUT WHEN ORDERING.

PHOTOCOPIES AVAILABLE AT 15¢ EACH FOR THE FIRST 5, 12¢ EACH ADDITIONAL, (8½X11").

BRAND NEW COPY OF THE 1969-70 "HOW TO LISTEN TO THE WORLD" IS AVAILABLE FROM HQ, (1 COPY). NOTHING WRONG WITH IT AT \$2.50; WE JUST BOUGHT TOO MANY AND HAVE ONE TOO MANY.

DONATIONS FOR THE MIMEO HAVE BEEN RECEIVED FROM A FEW PEOPLE:

BILL DRAEB \$2 DAVE SWANSON \$5.50 WALDO BISHOP \$9

THANK YOU VERY MUCH FELLOWS ON BEHALF OF THE CLUB TREASURY.

THE SUMMER RUSH TO JOIN WTFDA APPEARS TO HAVE BEGUN AS MEMBERSHIP APPLICATIONS ARE ON THE UPSWING. MOST HEARD OF US FROM COMMUNICATIONS HANDBOOK, AUDIO MAGAZINE, OR FROM ANOTHER MEMBER SO WE ARE APPRECIATIVE OF ALL. OUR 13TH MEMBER FROM THE TV GUIDE ARTICLE HAS JOINED, ALSO. THE COMMUNICATIONS HANDBOOK ARTICLE IS PROBABLY THE BIGGEST SINGLE SOURCE OF NEW MEMBERS WE HAVE EVER HAD, AND WE HAVE TWO MEMBERS TO THANK FOR THAT; PE EDITOR OLIVER FERRELL, AND THE ACTUAL WRITER OF THE ARTICLE GARY OLSON. DENNIS SMITH'S LETTER TO THE EDITOR OF AUDIO MAGAZINE ALSO HAS PRODUCED GOOD RESULTS. THANK YOU ALL.

IN THE CURRENT EDITION OF SCIENCE & ELECTRONICS MAGAZINE THERE IS AN ARTICLE BY DON JENSEN ABOUT DXING MEXICAN STATIONS: AM, FM, SW AND TV. THE LIST OF STATIONS IS ABOUT AS ACCURATE AS ANY OBTAINABLE FROM ANY LATIN AMERICAN COUNTRY, SO IF YOU WANT A LIST OF FM AND TV STATIONS IN MEXICO, PICK UP A COPY OF THE JUNE-JULY S&E.

THE AUSTRALASIAN SCENE AND STATISTICS COLUMNS WILL NOT APPEAR THIS MONTH BECAUSE EDITOR GLENN HAUSER IS ON VACATION IN JAPAN, AT EXPO 70. HE HOPES TO VISIT HONG KONG ON THE WAY BACK TO THAILAND TO SEE THE RED CHINESE TV AS WRITTEN UP IN TV GUIDE MONTHS AGO, BUT THIS WAS STILL A BIG IF AT LAST WRITING. (THE STATISTICS COLUMN WHICH APPEARS IN THIS VUD IS THE MAY COLUMN WHICH WAS RECEIVED TOO LATE FOR PUBLICATION LAST MONTH. MAIL SERVICE BETWEEN THE FAR EAST AND THE USA IS EVEN WORSE THAN WITHIN THE USA.)

HQ HAS RECEIVED A PROPOSAL FROM PHIL SULLIVAN OF NRC (NATIONAL RADIO CLUB) TO JOIN WITH THEM IN 1971 IN COMPILING A COMPREHENSIVE STATION LIST INCLUDING OUR SPECIALTIES AND THEIRS: TV, FM AND BCB. THEIR INFORMATION IS ALL COMPUTERIZED AND WE HOPE TO DO THE SAME WITH OURS TOO IF VOLUNTEER KEYPUNCHERS CAN BE FOUND (HINT). THEIR 1970 LIST OF BCB STATIONS JUST WENT TO PRESS AND ORDERS ARE BEING ACCEPTED. IT INCLUDES ALL USA AND CANADIAN INCLUDING LPRT, AFRTS, ETC. BESIDES THE USUAL INFO SUCH AS CALL, ADDRESS, AND NETWORK, THEY INCLUDE OPERATING SCHEDULES AND POWER: DAY/NITE/PSA/CRITICAL HOURS. ANYONE WHO'S TRIED TO USE THE USUAL LOGS (JONES, WHITE, WRTVH) KNOWS HOW INACCURATE THEY ARE, AND IT IS UP TO THE CLUBS TO PRODUCE ACCURATE LISTS FOR THEIR MEMBERS. OUR FIRST ATTEMPT WAS LESS THAN A COMPLETE SUCCESS SO WE PLAN TO TAKE EXTRA CARE BEFORE ATTEMPTING ANOTHER. SORRY I DON'T HAVE FURTHER INFO ON THE OFFSET-PRINTED NRC BCB LIST BUT SUGGEST YOU WRITE NRC HQ FOR FURTHER INFORMATION. AT BOX 99, CAMBRIDGE, MASS. 02138.

I (FERDIE DOMBROWSKI) AM CURRENTLY A DATA PROCESSING STUDENT, AND CAN DO A CERTAIN AMOUNT OF KEYPUNCHING IN SCHOOL IN MY SPARE TIME, BUT COMPILING A COMPLETE FM AND/OR TV STATION LIST WUD BE MUCH TOO BIG A JOB FOR ME ALONE. I'M A HUNT AND PECK TYPER AND ALWAYS HAVE BEEN, SO KEYPUNCHING CARDS FOR SOME 4000 TV AND FM STATIONS IS TOO MUCH, EVEN THOUGH I HAVE ACCESS TO THE EQUIPMENT FOR PUNCHING, SORTING, ETC.

FOR THOSE INTERESTED, THE BREWERS BASEBALL TV AND RADIO NETWORKS ARE IN THE FORMATION STAGES YET. THE FIRST 4 OF 26 TV GAMES OCCURRED THE PAST 2 WEEKENDS FROM KEY STATION WTMJ-4. TWO OF THE GAMES WERE ALSO CARRIED BY WLUK-11 IN GREEN BAY, AND ONE BY KFIZ-34 IN FOND DU LAC. KFIZ-TV ALSO CARRIED A MIDWEST BASEBALL LEAGUE GAME LAST WEEK, LIVE FROM FOND DU LAC. THE WHITE SOX DON'T SEEM TO HAVE ANY STATIONS IN WISCONSIN THIS YEAR, BUT CUBS GAMES ARE SEEN ON WFRV-5 GREEN BAY AND WMTV-15 MADISON. SOME TWINS GAMES ARE SEEN ON WEAU-13 EAU CLAIRE AS WELL. (LA CROSSE ISN'T LISTED IN OUR TV GUIDE SO I DON'T KNOW IF THE LA CROSSE STATIONS CARRY ANY GAMES OR NOT).

FCC NEWS & DATA

GARY A. OLSON
1203 KENTON RD.
DEERFIELD, ILL. 60015

STATIONS OPERATING (AS OF MAY 1, 1970)

UHF ETV	<u>108</u>
UHF Com	<u>181</u>
VHF ETV	<u>82</u>
VHF Com	<u>509</u>

Total Authorized Stations On The Air 880

New Stations Reported On The Air:

KOAI (TV) ch. 2, Flagstaff, Ariz., ERP 24.5 kw. reported on air in May, 1970

*KIIN-TV, ch. 12, Iowa City, Ia., reported on air in March, 1970

KVDO (TV) ch. 3, Salem, Ore., reported on air in March, 1970

*KPTS-TV, ch. 8, Hutchinson, Kan., reported on air in Jan. 1970

Stations Authorized To Start Operation:

WIGZ (TV) ch. 16, Mayaguez, P.R., ERP 1.95 kw.

KPAX-TV, ch. 8, Butte, Mont., ERP 288 kw. - ant. 2050'

WPBT (TV) ch. 2, Miami, Fla. (sharetime with WTHS-TV)

New Target Dates Reported:

*ch. 47, Peoria, Ill., fall 1970

WUTV (TV) ch. 29, Buffalo, NY, 1250 kw. ERP., August 1, 1970

WSMS-TV, ch. 51, Ft. Lauderdale, Fla., due back on air August 1st

Stations Reported Off The Air:

*KAMU-TV, ch. 15, College Station, Tex., left the air March 30th

Construction Permits Deleted:

WVJS-TV, ch. 19, Owensboro, Ky.

WIOS-TV, ch. 68, Marion, Ohio

Miscellaneous Changes Reported:

*WTHS-TV, ch. 2, Miami, Fla., given permission for sharetime operation with new WPBT (TV)

*KPTS-TV, ch. 8, Hutchinson, Kan., given the OK to identify as Hutchinson-Wichita

FCC COMPLETED ACTION

New Grants:

*Winston-Salem, N.C., ch. 26, (U. of North Carolina) 302 kw.

Stockton, Calif., ch. 58 (A.J. Crevolin) 270 kw.

Call Letter Changes:

WNBE-TV, ch. 12, New Bern, N.C., granted WCTI-TV

New Call Letters Issued:

Anaconda, Mont., ch. 2, KSMD-TV

Minneapolis, Minn., ch. 23, KTMA-TV

*Tyler, Tex., ch. 38, KWTW (TV)

Newark, N.J., ch. 58, WRTV (TV)

*Winston-Salem, N.C., ch. 26, WUNL-TV

*Miami, Fla., ch. 2, WPBT (TV)

Other Changes Allowed:

*KTCA-TV, ch. 2, St. Paul, Minn., ant. to 1310'

*KTCI (TV) ch. 17, St. Paul, Minn., ERP 28.8 kw - ant. to 1300'

WRIP-TV, ch. 61, Chattanooga, Tenn., ERP to 162 kw. - ant. 900'

WJOM-TV, ch. 26, New Orleans, La., ERP to 501 kw.

KGLD (TV) ch. 11, Garden City, Kan., ERP to 24.5 kw.

WANC-TV, ch. 21, Asheville, N.C., ERP to 9.12 kw.

*WITV (TV) ch. 7, Charleston, S.C., ERP to 132 kw.

ACTION APPLIED FOR OR REQUESTED

Applications For New Stations:

Ft. Collins-Greeley, Colo., ch. 22 (Mountain State R-TV) 110 kw.

Greenville, S.C., ch. 16, (Carolina Christian Broadcast) 221 kw.

FBI FCC

Charles A. Dobbins
12851 Longacre
Detroit, Michigan 48227

FM Applications

Anderson, In. 97.9 mhz. , 50 kw. , ant. hgt. 49 ft.
Bay Shore, N.Y. 103.1 mhz. , 3 kw. , 300 ft.
Berlin, NH. 94.3 mhz. , 3 kw. , 160 ft.
Boulder, CO 91.9 mhz. , 1.8 kw. , -7 ft.
Freeport, IL. 92.1 mhz. , 3 kw. , 300 ft.
Greenville, PA. 89.5 mhz. , 10 watts , 49 ft.
Keyser, WV. 95.9 mhz. , 31.7 kw. , 785 ft.
* Las Vegas, NV. 88.1 mhz. , 1 kw. , 15.75 ft.
Lebanon, OR. 103.7 mhz. , 25 kw. , 1,072 ft.
Lorain, OH. 104.9 mhz. , 3 kw. , 300 ft.
Marion, IL. 107.1 mhz. , 3 kw. , 153 ft.
Minocqua, WI. 95.9 mhz. , 2 kw. , 300 ft.
Ferry, IA. 104.9 mhz. , 3 kw. , 298 ft.
Phoenix City, AL. 100.1 mhz. , 3 kw. , 300 ft.
* Pueblo, CO. 90.5 mhz. , 10 watts , 113 ft.
Pulaski, TN. 98.3 mhz. , 3 kw. , 300 ft.
Scottdale, PA. 103.9 mhz. , 560 watts , 620 ft.
* Stockton, CA. 89.5 mhz. , 10 watts
Sun Prairie, WI. 92.1 mhz. , 2.7 kw. , 300 ft.
Waverly, IA. 99.3 mhz. , 3 kw. , 179 ft.
Wilmington, OH. 102.3 mhz. , 3 kw. , 300 ft.
Yuma, AR. 95.1 mhz. , 25 kw. , 76 ft.

Authorized Starts-----

Feru, ID. WGSY 100.9 mhz. , 3 kw. , 145 ft.
Caguas, PR. WVJP-FM 103.3 mhz. , 5 kw. , -370 ft.
El Centro, CA. KNEU 98.5 mhz. , 50 kw. , 75 ft.
Fayetteville, TN. WYTM-FM 105.5 mhz. , 3 kw. , 295 ft.
Hamilton, NY WRCU-FM* 90.1 mhz. , 10 watts
International Falls, MN. KICC* 91.5 mhz. , 10 watts
North East, PA. WHPY-FM 102.5 mhz. , 3 kw. , -95 ft.
Wicksburg, MS. WKYV 106.7 mhz. , 58 kw. , 510 ft.
Wilmington, DL. WMPH* 91.7 mhz. , 10 watts TPO
Wilmington, NC. WAAV 102.7 mhz. , 50 kw. , 145 ft.

STATION GRANTS-----

Broken Bow, OK. 92.1 mhz. , 3 kw. , 246.9 ft.
Charleston, SC 103.5 mhz. , 25.9 kw. , 216 ft.
FrontRoyal, VA 103.9 mhz. , 3 kw. , 300 ft.
*Helena, MT. 89.5 mhz. , 10 w. , 74 ft.
*Miami, FL. 89.7 mhz. , 3 kw. , 880 ft.
*Morristown, NJ. 90.5 mhz. , 10 w. , 80 ft.
Princeton, WV. 95.9 mhz. , 3 kw. , 286 ft.
Punta gorda, FL. 92.7 mhz. , 3 kw. , 150 ft.
Tucson, AR. 94.9. , 49.896 kw. , -125 ft.
Waverly, OH. 100.9 mhz. , 920 w. , 500 ft.
*Wesson, MS. 91.1 mhz. , 10 w. TPO

NEW CALL LETTER REQUESTS-----

WWJC-FM Duluth, MN. - WGGR(FM)
WIQT-FM Horseheads, NY. - WQIX(FM)
KRKD-FM Los Angeles, CA. - KFSG(FM)
WRVC-FM Norfolk, VA. - WPWI-FM
WSTP-FM Salisbury, NC. - WRDX(FM)
WMTM-FM Westport, CN. - WDJF(FM)

NEW CALL LETTER GRANTS-----

KDEN-FM - Denver, CO. - KVOD(FM)
*WWKS(FM) - Macomb, IL. - WIUM(FM)
KWPC-FM - Muscatine, IA. - KFMH(FM)
WWMT(FM) - New Orleans, LA. - WBYU(FM)
WWOM-FM - New Orleans, LA. - WWOM(FM)
KACO(FM) - ST. Louis, MO. - KGRV(FM)

A BIG DOUBLE THANKS TO ROGER WINSOR. First for filling in for me with the missing data prior to my editorship appointment. Secondly, although this column does not as yet reflect the format of Roger's fill in column (I received my WUD after this column was already typed) the next issue of this column will have more of the information that Roger also included in his column. Please excuse the omissions from the past two issues and I will make amends in the future.

73's
Chuck

Conducted by
David T. Janowiak

TECHNI/CORNER
JUNE

3661 South 46 Street
Greenfield, Wisc., 53220

-New Series-

TIPS AND TECHNIQUES FOR
THE DXER AND DXER/BUILDER
PART I: INTRODUCTION

Up to about a week ago, I was quite undecided about starting a series of this sort. What convinced me of the possible value of such a series was a review of some of the letters that seem to flow continuously from various members. These letters, not necessarily for their content, indicate that active members are indeed a different group than those in AIPA days.

Yes, the nucleus of WTFDA is formed of AIPAers. But more and more new TV or FM DXers come along and display a real interest in all phases of DXing. That is, they want to know more about the "whys". Also, the average age of members is much higher. Whereas AIPAers were almost entirely composed of 16-20 year olders in the 1950's plus a few middle aged, but most active, members like Art Collins, B. J. Bingham, and Tom Hidley (now all deceased), most members now are in their upper twenties and early thirties. Most have what I might call "dollar power"; that is, besides an intense curiosity, they are able to purchase sophisticated DX gear.

The intent of this series might be summed up as follows: To allow DXers to self-educate themselves by using inexpensive devices (or, in many cases, devices they already have) and techniques that will allow them to get more out of the hobby and the equipment they use.

(True, most benefit will be for those who like to dabble and learn a little more about the "whys". But I think I can convince even the "non-dabbler" that an awareness of certain techniques will result in more satisfying DXing.)

(It is most disturbing when a DXer cheats himself by failing to apply the devices (or build devices) with material he already has. It's one matter to compute the value of X dollars of equipment against the probable benefit. It's another matter when performance is sacrificed due to misapplication or unawareness.)

What can you expect in subsequent parts? Well, we will look at signal strength indicators (you may have one but you don't know it), attenuators that you can make for pennies or buy for a few dollars, reference dipoles you can make, etc. At the end of each topic, you'll see how the device and techniques using the device can aid your DXing. After all these devices are discussed, we will put them together and see just how they help.

Next week, part II, signal strength indication cheaper than you expect.

GOOD LUCK OLD BUDDY.

By the time this is read, WTFDAer Bedford Brown, should be relocated in Puerto Rico. Bed, for those who don't know, was probably the premier TV DXer in the 1950's during the booming AIPA days. Much of his DX is legend; all is fact.

You haven't seen Bed's reports in the VUD simply because (1) he doesn't have the time to DX, (2) he isn't as interested in DXing as he was, and (3) he has been living in downtown Chicago. In fact, up to about a year ago, Bed didn't even have a TV in his top story bachelor pad along Chicago's famed Gold Coast.

Recently, one of Bed's many female friends gave him a broken down 1960 portable TV. With this, and a dipole antenna fashioned by Morrie Goldman, Bed was able to receive most of the Chicago stations atop the John Hancock building two blocks away almost snow free during intense inversion.

Bed has a new B & W TV now and tells me he might try DXing again. Whether he does or not, I'm sure all DXers who have ever met this most interesting and amiable transplanted southerner wish him well. Personally, my wife, kids, & I will miss him. We'll miss the frequent trips to Chicago and his trips here for cards, tennis, laughs, and not a little eating and drinking. At most of all we will miss the man, Bedford Brown. (Bed, you had better sharpen your tennis game, because when we visit, I don't want any excuses about high Puerto Rican temperature and humidity crimping your style.)

So good luck to you amigo in your new job, and please, if you do some DXing again, leave some triple-hoppers for other DXers.

73's Dave

SYNOPSIS OF THE NEW SEASON - EXTRA

(Prepared May 16, 1970)

The summer - '70 DX season is far enough under way, as this is written, to allow us to make some observations as to just what type of summer season this will probably be.

IF (if?) the first 15 days of May are any indication, this will be a top performer for summer Es. Based solely upon my own observations from Oklahoma City, the following statistics wring from the log book records.

May 1 thru 15

Number of dates with TV DX (channels 2-6) E skip	9	(59 %)
Number of dates with FM DX (88 - 108, or part) E skip	4	(26 %)
Number of total minutes, TV DX E skip	1,875	(8.87 %)
Number of total minutes, FM DX Es	490	(2.3 %)

This is of course from a single location, and when the totals for all club members are added at a later date, these numbers and percentages will swell.

However - expanding just the number of dates for TV and FM DX via E skip through the balance of the season for this location only, suggests that I will have a total of:

TV DX via Es	45 days <u>plus</u>
FM DX via Es	20 days <u>plus</u>

The Es patterns during the first 15 days of the season were well defined. Openings tended to be intense (as indicated by the large percentage of FM dates also open), and on two dates, at least, there were known instances of E skip as high as the 144 MHz amateur band from here in Oklahoma east into Ontario, New York, Pennsylvania, Maryland, Delaware and Virginia; something that has never happened this early in the season before. There may well have been E skip as high as channel 7/8 between the mid west and those same state areas on May 10th between 8 and 10 PM!

Openings are bunched late in the day (predominantly after 5 PM) and centered well north of the usual 'southern regions' where E skip traditionally gets under way each season. All of these factors suggest a very unusual year in store.

IN SUMMARY

- (1) There are more openings this year than normal.
- (2) The openings are stronger and lasting longer (often there is so much CCI on the TV channels that in spite of very strong signals, very little is identified.)
- (3) So far, the openings are centering late in the day.

BOB'S TECH NOTES

BCB'S TECK NOTES

June 1970

Page One

DID YOU EVER HAVE A DREAM?

My dream started more than two years ago, while I was in the Virgin Islands helping a large international corporation build a CATV system.

"There has got to be a way" it started out "to build a completely tuneable, super-selective bandpass filter with a built-in ultra low noise pre-amplifier".

"I want a box" mused I to no one in particular "that will completely eliminate the spill over from my strong local channels, on the adjacent not-in-use (in my area) TV channels".

"And", I continued, "the box has to not only eliminate the strong local channels, it must also amplify the weak, distant, stations on the adjacent channel."

18 months later, or early this year, I had my box. Morrie Goldman was the first in the hobby to see it work. He was not impressed. (In all fairness to both myself and Morrie, what he saw was an early prototype that had a cold solder joint!)

Early in March a patent application for the INTERDIGITAL PRE-AMPLIFIER was filed in Washington. By early April construction details on building duplicate INTERDIGITAL PRE-AMPLIFIERS (abbreviated IPA) were in the hands of fellow DX'ers, including Morrie Goldman, Dave Janowiak, Tom Leu, Roger Brown and Gerald Pulice.

Early in May, Community Antenna Development Company (CADCC) was formed in Oklahoma and plans were laid to begin commercial manufacture of the IPA by mid-summer. By the time this appears in print, the first units will be on their way to early customers in the two-way radio industry. By late this summer, CATV system operators and translator system operators will see their first 'for TV' IPA units.

And all of this began because I was sick and tired of DX'ing in an area (any area) where strong local TV signals took up not only the local channels, but one or two adjacent channels as well. Who says TV DX'ing leads to no good!

BUILD YOUR OWN IPA

The IPA concept is different than anything else you have encountered in electronics. (It has to be a little different to be patentable .. which, for sure, we won't know about for a year or more.) Basically, it combines a 'strip-line multiple section tuneable filter' with a non-neutralized (grounded gate) FET (field effect transistor) amplifier. If you go out and purchase all of the parts new (which is recommended), it will set you back around \$35.00 or so. With a small metal saw, hand drill, 40 watt soldering iron and usual hand tools, total construction time will be around 10-12 hours. One model covers low band, another covers high band (low band will also cover FM).

What you will have, after you build one, is a system that will clean (completely) all of the spill over from your local channels, and

amplify the desired channel (ie. eliminate spill over from 2 and 4, at the same time, and boost a very weak channel 3) better than any commercial pre-amplifier built, or that you could build, using ANY other circuit.

The original patent application papers ran to over 70 pages of double spaced type, with diagrams and other support information.

This has been 'boiled down' to approximately 12 pages of in-print material, freely illustrated with photographs, drawings, charts and what have you, and will appear in the AUGUST 1970 issue of HAM RADIO Magazine, as the cover feature article.

There is no way for me to tell you how to build the IPA in the VUD (Digest). I can strongly urge you to find a local electronics supply (one that handles amateur radio gear is usually best) that handles HAM RADIO Magazine. Make arrangements now to reserve your own copy of the August 1970 issue. If you cannot find such a supplier, you can contact HAM RADIO Magazine, Greenville, New Hampshire (03048) and ask Mr. Jim Fisk to mail you a copy of the August issue only. (Enclose a dollar for a first class mail copy on a one time basis.)

The directions for construction of the IPA, appearing in the August 1970 Ham Radio, are very complete. As Dave Janowiak has already learned, follow the directions exactly: DC NCT substitute other materials; do NCT change any measurements or specifications.

IF ... after you build it, it does not operate properly, drop me a note directly and we will make arrangements to put it into working order for you.

I am personally running TWIN IPA systems on both low band and high band, here in Oklahoma. That is, I have two units in series on low band, and two in series on high band. I use them on all channels, even those without adjacent strong signals, because the pre-amplifier action is so hot that it makes signals that are just a weak frame bar almost snow free! (If the Ham Radio people use the photographs that I supplied, of TV screen photos, you will see what I mean.)

The IPA system, with even a modest receiver, makes the best darn TV DXing system in the world. With a good receiver, and a good antenna system, you can log more stations further away when the band is 'dead' than you are probably logging now when the band is open!

OK ... so there you have it. The IPA is the key to better DX. What are you waiting for?

FM

A modification of the IPA, called the IPA-TRAP has been designed to do everything the IPA does for TV PLUS provide up to 80 db of attenuation on a single, select, FM channel. This will be the ultimate answer for anyone suffering from local FM overload. Watch for more details on this one soon.

VHF RADIO

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

JUNE 1970

By the time that you read this the Es season should be about reaching its peak. From all indications in April and so far this May, the season should be tremendous.

As of this writing, I have not received the May issue of the VUD. I have only received one report for the column (along with some ancient ones passed along from HQ). My May 15th deadline may have come before many members got the issue. Hopefully next month will be better on the reporting. There's certainly no lack of Es in the 30-50 MHz range.

Hank Holbrook, 7211 Chestnut Street, Chevy Chase, Md. had sent HQ a long list of VHF stations in January. Most are non 30-50 MHz. The following list of VOR's is presented for those who might want to try for Es on them when the MUF climbs beyond the FM band. Hank used a Scott 3100 to get some as well as an Allied 2682. A 10-element Finco Yagi was the antenna. Some verified by letter and some (*) with the return of the prepared card sent with the report. All were tropo for Hank. Most run 100-150 watts. ID is by Morse code tone.

<u>MHz</u>	<u>ID</u>	<u>QTH</u>	<u>MHz</u>	<u>ID</u>	<u>QTH</u>
108.2	ARD	Yardley, Pa.	111.4	ENO *	Kenton, Del.
108.3	ISL	* Islip, LI, N.Y.	112.6	ATR *	Waterloo, Del.
108.4	DOV	Dover, Del.	112.8	OOD *	Woodstown, N.J.
108.6	ACY	* Atlantic City, N.J.	113.4	CYN *	Coyle, N.J.
108.8	BDR	Bridgeport, Conn.	113.8	REV *	Robinsville, N.J.
109.0	HTM	Whitman, Mass.	114.5	SBY *	Salisbury, Md.
109.0	FDK	* Frederick, Md.	114.8	SIE *	Sea Isle, N.J.
109.1	ARK	Newark, N.J.	116.0	OTT *	Nottingham, Md.
109.3	PHL	Philadelphia, Pa.			

On the low-band Hank got: KGA 340, 39.42, Towson, Md. (police)
KGD 889, 37.7 Baltimore (Gas & Electric)

William Fait, 346 Walworth Drive, Cleveland, Ohio 44132:
a brief note on Jan 7, 1630 EST pickup of KMD 342.

Ferdinand Dombrowski at HQ sent along some fresh Es DX. CDST used

May 9: 1850, Oklahoma City	May 10: 1620, Oklahoma City
1940, KIY 508	(cont) 1630, KIF 653 (new)
	1640, Wilkes-Barre
May 10: 1300, KIY 508	1800, KIG 300
1500, KCC 482	2115, Dallas (new)
1530, KIY 757	
1610, KGC 223	

May 10 provided a very long session of DX on the 43.58 MHz channel.

(A complete list of pagers reported active this period appears at the end of the column.)

Now to my own log. I neglected to mention what my equipment is in last month's column. For 50-MHz, a Swan 250 with NS-1 noise silencer, a 3-element Cushcraft beam at 20 feet (horizontal polarization). For 30-50 MHz, an Allied A-2586 with its built-in whip and 30 feet of random indoor wire.

All reception via Es unless noted otherwise. 50-MHz Es deleted. All times in CST.

Apr 25: 1615, 50-MHz Cook Island (F2)	May 10: 2030, KSC 645
1925, 50-MHz Chile (TE)	2330, KSC 644
Apr 26: 1145, Long Beach	May 11: 1645, KAD 931
1555, KSC 645	2135, KSC 645
1600, KSC 864 (new)	May 12: 0034, KDN 492
1610, 50-MHz Cook Island (F2)	1245, KIY 508
Apr 27: 1825, KIY 508	1310, KIN 645
Apr 28: 0630, KIY 508	1435, KIF 663
0945, Oklahoma City	May 13: 2120, KAD 931
1020, KIG 999	2155, KSC 645
1030, KIM 905	May 15: 1310, KSC 645
Apr 29: 1500, Long Beach	1405, KMA 829
May 4: 1915, Long Beach	May 16: 0835, KIY 508
May 5: 1315, Oklahoma City	1400, Oklahoma City
KIY 508	1530, Long Beach
1330, KIY 757	1730, KSC 645
1440, KDN 492	1800, KAD 931
1545, Long Beach	2215, KAH 661
1620, KMA 829	May 17: 1020, KSC 645
May 6: 2000, KSC 645	1315, Long Beach
2050, KAD 931	May 18: 1300, KFJ 992
KAH 661 (new)	1345, KAH 661
May 7: 1520, Long Beach	1430, Long Beach
1940, KMD 342	May 19: 0915, KSC 645
2030, Long Beach	
May 9: 0940, KSC 645	(KIN 645, KFJ 992, KIG 999,
1005, KIY 508	KDN 492, KMA 829 all ID
1015, KAD 931	by Morse code tone)
1140, KOE 257 (new)	
1425, 50-MHz Argentina (F2)	

KAD 931	35.58	Kansas City, Mo.	KMA 829	35.58	California
KAH 661	35.22	Minneapolis, Minn.	KMD 342	35.22	Fresno, Cal.
KCC 482	35.22	Concord, N.H.	KOE 257	43.58	Phoenix, Ariz.
KGC 223	35.22	Philadelphia, Pa.	KSC 644	43.58	Chicago, Ill.
KIF 653	43.58	Memphis, Tenn.	KSC 645	35.58	Chicago, Ill.
KIF 663	35.58	Birmingham, Ala.	KSC 864	35.58	Peoria, Ill.
KIG 300	43.58	Atlanta, Ga.	-	35.58	Dallas, Tex.
KIM 905	35.22	Charlotte, N.C.	-	35.58	Long Beach, Ca.
KIN 645	35.22	Miami, Florida	-	35.58	Oklahoma City OK
KIY 508	35.22	Orlando, Florida	-	35.22	Wilkes-Barre PA
KIY 757	35.22	Montgomery, Ala.			

Locations for KFJ 992, KIG 999, and KDN 492 are not known as yet. All are 35 MHz region occupants.

So between the ID's on TV Es give the pagers a try. Their tape loop transmissions sometimes ID often every 15 seconds. It doesn't take much effort.

EASTERN TV DX

Y. ... Dave Pomeroy
3556 Rocky Hill Terrace
Lexington, Kentucky 40503

Reports received this month indicate improved DX conditions with a couple of good skip openings noted. Most notable days were April 28 when Mitchell Donock and I noted several Cuban stations and May 10 when Bob Seybold, Roy Barstow, and I received stations from the western plains states. Additional skip reception was noted here on May 16.

DX'er's in the Mid-West should be on the lookout for WNIN-TV, a new public television station on channel 9 in Evansville, Indiana.

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

- | | | | | | |
|---------|--------------|---------------|---------|--------------|-----------------|
| 2-25 Tr | WSUN-38 | St. Pete, FL. | 4-18 Tr | 2000 UNID-13 | Cuba, ch 2 net |
| | WTOG-44 | St. Pete, FL. | | 2300 UNID-3 | Cuba, ch 6 net |
| 4-17 | 1930 WUSF-16 | Tampa, FL | | 2330 UNID-2 | Cuba, ch 2 net |
| | 2230 WJKS-17 | Jacksonville | 4-22 | 2030 WKGA-8 | Waycross, GA |
| 4-18 | 1315 WFGA-12 | Jacksonville | | 2230 WEBA-14 | Allendale, SC |
| | 0630 WFTV-9 | Orlando, FL | | 2315 WSAV-3 | Savannah, GA |
| | 0630 WCTU-6 | Orlando, FL | 4-23 | 0630 WRBL-3 | Columbus, GA |
| | 1930 CMO-6 | Havana, Cuba | 4-24 | 0200 WEAR-3 | Pensacola, FL |
| | 1935 UNID-3 | Cuba, ch 6net | | 0201 WBRZ-2 | Baton Rouge, LA |
| | 1937 UNID-3 | Cuba, ch 2net | 4-21 | 2130 WDCO-15 | Cochran, GA |
| | 1940 UNID-9 | Cuba, ch 6net | | | |

(Has channel 6 Orlando changed call letters? My information shows it as WDRO-TV. Identification of specific Cuban stations is going to be quite a problem. TV FACTBOOK lists stations and networks, but information is incomplete. dp)

Roy Barstow, 247 Fairmount Ave., Hyde Park, Massachusetts 02136

- | | | | | | |
|---------|----------------------------|-----------------|---------|-------------------|----------------|
| 4-4 Ms | 0433 WBBM-2 | Chicago, IL | 4-28 Tr | 0130 WOR-9 | New York, NY |
| | (First Ms ID--rabbit ears) | | | 0130 WABC-7 | New York, NY |
| 3-19 Tr | 0100 WHYN-40 | Springfield, MA | | 0145 WCBS-2 | New York, NY |
| | 0105 WCDC-19 | Adams, MA | 4-30 | 0115 WKBS-48 | Philadelphia |
| | 0120 WRLP-32 | Greenfield, MA | | 0120 WPHL-17 | Philadelphia |
| | 0120 WHNB-30 | New Britain, CN | | 0130 WPIX-11 | New York, NY |
| | 0130 WWLP-22 | Springfield, MA | 5-1 | 0100 WBOC-16 | Salisbury, MD |
| 4-18 | 0120 WNHC-8 | New Haven, CN | | 0200 WLVT-39 | Allentown, PA |
| | 0130 WOR-9 | New York, NY | | 0200 WKEX-9 | Petersburg, VA |
| 4-24 | 0200 WTEN-10 | Albany, NY | | 0030-0230 UNID-66 | Testing |
| | 0100 WKBS-48 | Philadelphia | 5-10 Es | 1000 KTVI-2 | St. Louis, MO |
| | 0100 WGAN-13 | Portland, ME | | 1030 KVOO-3 | Tulsa, OK |
| | 0030 WPHL-17 | Philadelphia | | KCKT-2 | Great Bend, KS |

(Yes, channel 2 station you received on May 10 was KCKT-TV. Translator ID was for K18AA, channel 18 in Salina, Kansas. Could your mystery channel 66 be channel 68 from Baltimore? dp)

Mitchell Donock, 2921 Brinkley Road, Oxen Hill, Maryland 20031

- | | | | | | |
|---------|-------------|------------|---------|--------------|----------------|
| 4-28 Es | 1745 WTHS-2 | Miami, FL | 4-29 Tr | 1630 WTAR-3 | Norfolk, VA |
| | 1745 UNID-2 | Cuba | 4-30 | 0620 WITN-7 | Washington, NC |
| | UNID-3 | Cuba | | 0620 WAVY-10 | Norfolk, VA |
| | 1800 UNID-2 | TP "TRC" ? | | 0645 WBOC-16 | Salisbury, MD |
| ? | 1900 UNID-3 | | 5-1 | 0555 WRAL-5 | Raleigh, NC |

(Your reception from Florida and Cuba is almost identical to what I received here in Kentucky at the same time so the opening covered a large area of the southeast. Your channel 2 reception of a test pattern reading "TRC" could not be explained by a quick check in TV FACTBOOK's international section. You might try the CCI column. dp)

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

5-2 Tr	WTVS-56 Detroit, MI	5-10	KARD-3	Wichita, KS
	WKBD-50 Detroit, MI		KYTV-3	Springfield, MO
	WXON-62 Detroit, MI		KOTA-3	Rapid City, SD
	WJIM-6 Lansing, MI		KFDX-3	Wichita Falls, TX
5-3 (WTVS, WKBD, WXON, and WJIM)			WDAF-4	Kansas City, MO
5-4	WFPK-15 Louisville, KY		WKY-4	Oklahoma City, OK
	WHIZ-18 Zanesville, OH		KRLD-4	Dallas, TX
	WDHO-24 Toledo, OH		KALB-5	Alexandria, LA
	WKSO-29 Somerset, KY		KCMO-5	Kansas City, MO
	WKYT-27 Lexington, KY		KHAS-5	Hastings, NB
	WOSU-34 Columbus, OH		KOCO-5	Oklahoma City, OK
	WKBD-50, WTVS-56, & WXON-62		KENS-5	San Antonio, TX
	WJIM-6 Lansing, MI		KTVC-6	Ensign, KS
	WPSX-3 Clearfield, PA		KCEN-6	Temple, TX
	WTVN-6 Columbus, OH		WDSU-6	New Orleans, LA
	WBOY-6 Clarksburg, WV		KAUZ-6	Wichita Falls, TX
	WCNY-24 Syracuse, NY	5-11 Tr	WSBT-22	South Bend, IN
5-10 AM	WSYE-18 Elmira, NY		WANE-15, WKJG-33, & WPTA-21	
	WENY-36 Elmira, NY	0700	WHIZ-18	Zanesville, OH
	WDAU-22 Scranton, PA	to	WTVS-56	Detroit, MI
	WBRE-28 Wilkes-Barre, PA	0900	WGTE-30	Toledo, OH
	WBJA-34 Binghamton, NY		WDAU-22, & WBRE-28	Scranton
	WINR-40 Binghamton, NY		WSYE-18	Elmira, NY
	WHIZ-18 Zanesville, OH		WBJA-34 & WINR-40	
	WJIM-6 and WTVN-6		WJIM-6, WTVN-6, & WBNS-10	
	WBNS-10 Columbus, OH	1930	WUCM-19	University Center, MI
	WLW-C-4 Columbus, OH	2100	WKBD-50 & WXON-62	
	WHTN-13 Huntington, WV	5-12	WQEX-16	Pittsburgh, PA
	WFIL-6 and WCAU-10		WDAU-22	Scranton, PA
Es	1100 to 1400	0800	WCNY-24	Syracuse, NY
	KNOP-2 North Platt, NB	to	WDHO-24	Toledo, OH
	KMTV-3 Omaha, NB	0900	WBRE-28	Scranton, PA
	KHPL-6 Hayes Center, NB		WBJA-34	Binghamton, NY
	WOW-6 Omaha, NB		WINR-40	Binghamton, NY
	WBAP-5 Ft. Worth, TX		CKNX-8	Wingham, Ontario
	KOTV-6 Tulsa, OK		WPSX-3	Clearfield, PA
1800	KTBS-3 Shreveport, LA		(CKNX & WPSX excellent)	
to	KBTX-3 Bryan, TX	5-13 Es	WPTV-5	W. Palm Beach, FL
2315	KATC-3 Lafayette, LA		WDBO-6	Orlando, FL
	KCKT-2 Great Bend, KS		WEAR-3	Pensacola, FL
	WBRZ-3 Baton Rouge, LA		WEDU-3	Tampa, FL
	KVOO-2 Tulsa, OK			
	KPRC-2 Houston, TX			

Dave Pomeroy, 3556 Rocky Hill Terrace, Lexington, Kentucky 40503 (EDT)

4-28 Es	1750 <u>CKJ-3</u>	Holguin, Cuba	5-10 Es	2005 <u>KNOP-2</u>	North Platt, NB
	1800 <u>WHS-2</u>	Miami, FL		1900 <u>KFBC-5</u>	Cheyenne, WY
	1820 <u>WTVJ-4</u>	Miami, FL		2000 <u>KDUH-4</u>	Hay Spring, NB
	1820 <u>CMJ-4</u>	Camaguey, Cuba		2100 <u>KRNA-6</u>	Denver, CO
Tr	1830 <u>WLAC-5</u>	Nashville, TN		2155 <u>KWGN-2</u>	Denver, CO
Es	2020 <u>CMAB-2</u>	Habana, Cuba	5-16	2005 <u>KOTA-3</u>	Rapid City, SD
	2020 <u>CMBF-4</u>	Habana, Cuba		2030 <u>KOB-4</u>	Albuquerque, NM
	or <u>CMJ-4</u>			2200 <u>KTVS-3</u>	Sterling, CO
5-6	2230 <u>KLID-2</u>	Midland, TX		2200 <u>KTWO-2</u>	Casper, WY
5-7 Tr	0200 <u>WSM-4</u>	Nashville, TN		2300 <u>KPRC-2</u>	Houston, TX
			5-19 Tr	2200 <u>WNIN-9</u>	Evansville, IN

(Identification of Cuban stations was made through information available in TV FACTBOOK which may be in error since recent info is lacking)

THE EUROPEAN SCENE

Roger Bunney, Trelawne, Cupernham Lane, Romsey, Hants, SO5 8JH, England

The brief sunspot details for April are as follows: A maximum count of 188, a minimum count of 81 on the 26th, and an average count over the month of 109.1. The predicted smoothed counts for the next six months are May, 95; June, 93; July 91; August 89; September, 87; October, 85.

The period under review has shown a marked improvement in conditions, especially with sporadic E. At the beginning of the period, tropes did make themselves known, with good signals over the Channel and down into France for about 400 miles. During April, bursts of sporadic E did intensify, giving signals over several minutes, mainly Scandinavia and Eastern Europe have predominated. Poland has been noted opening on programming at 0700 GMT, preceded by test card. The first opening for Es was:

- (All times BST)
- 2 May- Poland O1, O2, test card and unIDeds at 1330
 - 3 May- A new electronic test card noted on O1/E2a at 0908 with bursts of same throughout the morning. Rather more elaborate than the W. German type test cards. This was reported during December in Finland, a photo taken of it there. Possibly is from Hungary or Austria.
 - 9 May- Italy, IA, USSR O1 and many unIDeds, including O.B. of Red Square celebrations, 1820-
 - 10 May- Spain E2, 1350; Italy, IAX2, IB on football, 1912-
 - 12 May- Spain, E2,4, Cycling race O.B., 1817-
 - 14 May- Norway, E2,3, Test card C, with block ID of music on sound channel (Explanation below)
 - 15 May- Portugal, E2, 1736, on educational programme, test card E
 - 16 May- USSR, O1, 0745-; Italy IAX2, IB with test card, 0916-; Sweden E2, 1220, test card; USSR in for most of morning until 1330. Yugoslavia E3. At 1356 on E4, a short burst of test card was noted, similar to the old type used by DFF, E. Germany. Possibly they are using this at times, after several years, instead of their EBU test bar.

I mentioned above regarding identification on test card of music. On Norway, and on the Spanish second chain, the music accompanying the test card is detailed on an inlaid caption over the lower part of the test card, together with the composer/musical group.

The latest news regarding Caroline TV is that it will open July 1st. At a conference in New York, April 30, details were given of the project. Advertising bought outside the U.K. would be used, with rates given at 10% that of present commercial TV rates in the UK, and claim £250,000 air time already booked. The flight plans would be filed with Brussels Air Control, although at present the actual location of the airfield would not be disclosed. A warning has been issued that the UK government will invoke the Marine Offences Broadcasting Bill, which was used to silence the off-shore pirate radio stations, making it illegal for British subjects to supply, work for or advertise with the pirate transmitters.

The Technical University at Istanbul has advised that their channel E4 TV transmitter runs 50 watts, not 50kw, as recently listed in WRTH 1970. For the optimists, they transmit on Fridays, 1400-1800 GMT, using the standard RETMA, and occasional other patterns. A 450 watt transmitter is under construction in their laboratory. At present, no decision has been made regarding the high power network proposed in WRTH, at least in the Istanbul area, for operation mainly in Band 1. Actually, about two years ago, a DXer in Cyprus received an E3 test card carrying the word 'Test', and it was thought at that time to be the TRT network with a transmitter on test, as it was directionally north-east.

The proposed UHF transmitter for Jyvaskyla, Central Finland, has met with a delay. A Fouga Magister training jet of the Finnish Air Force crashed against the 1070 foot mast, causing extensive damage, but apparently is still

upright. The TVI network in Finland are using test card type F, carrying the ID 'YLE-TV1' in white writing in the centre lower frame, underneath the circle and picture of the young girl. As far as is known at present, the TV2 chain still carries test card G.

I have read a tentative report in Radio Communication (RSGB) that on two occasions last year, North American video was received in Scotland during auroral conditions. I am endeavouring to find out more on this, being that reception of this type is of great importance. I am surprised that this has not gained more publicity.

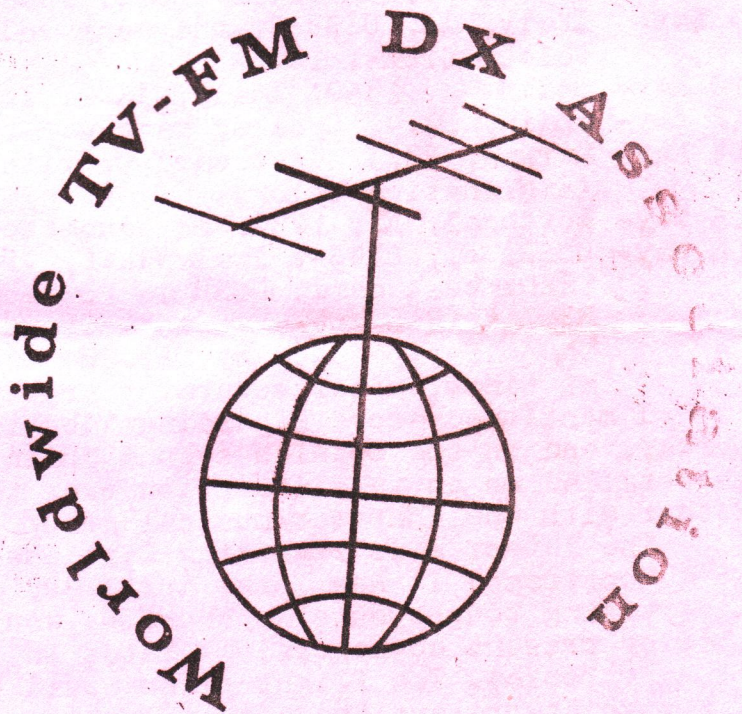
Best wishes, good Es,

Roger

EMBLEM PROBLEM
REVISITED

In the summer of 1968, when the WTFDA was young and many of you weren't even with us, there was some effort made to decide upon an official emblem for our organization. Obviously, it never got anywhere and organizational difficulties and the usual monthly chore of getting out the Digest have overshadowed this minor detail.

However, the mighty VUD graphics department has set to work on this problem, and has come up with the emblem design shown at right. The design is easy to reproduce, distinctive and incorporates the spirit of the WTFDA in a clear, simple manner. The antenna is universal a symbol of DX as one is about to find. The yagi design is as good for TV as it is for FM, hence no one is slighted. Our worldwide scope is, of course, symbolized by the globe.



What do you, the WTFDA membership, think? If you feel strongly any way about this design please let Headquarters know! No word from you will be construed as acceptance and you might find us using something which really doesn't thrill you. Adoption of an official emblem could speed work on other desirable items, membership cards, for example. The emblem could also be made into membership decals, which, displayed on your car, would declare to the world that YOU are a WTFDAer! Please, let HQ know what you think.

Did anyone happen to catch that old Tarzan movie on KWGN-2 last week? All about these elephants who travel hundreds of miles over mountains, through jungles, across rivers- just to die in the elephants' graveyard? You know what kills them? The trip!

WESTERN TV DX

Dennis Park Smith
 321 Santa Barbara St.
 Santa Barbara, California
 93101 U.S.A.

June 1970

Deadlines: 12th of each month

The big news in April DX was long-haul tropospheric bending. Texas reporters caught an early-morning session on the 21st, and it was good in Oklahoma from 26th to 29th. Some Es was observed overall on April dates 13, 14, 15, 18, 27, 28, and on 2, 5, 6, 7 in May. Some new signals were noted, and these early-season openings are felt to indicate a good Es season.

Robert Grace, PO Box 309, Franklin, Texas 77856 (Mar-Apr) (Times CST; CDT 26 Apr on)

MI	2100	KAEC	19	Lufkin TX (MissionImposs.)	15	Es	1200	YSR - 2	SanSalvador, El Salvador
3	1930	KAMU	15	Bryan TX #106 (FolkGuitar)			#109	(1150 TP appeared, 1200 sign-on and Popeye)	
	2200	KAEC	19	Lufkin TX (Local News)					
	2100	KHTV	39	Houston TX (9 O'clockMovie)	21	Tr	0630	WBRZ	2 Baton Rouge LA (Weather)
	2200	K76CL	76	Bryan TX (KCEN-6, Local Nx)				KATC	3 Lafayette LA (farm news)
9	2200	WKY	- 4	Oklahoma City OK (Local Nx)				KRIS	6 Corpus Christi TX (film)
18	0630	KLFY-10		Lafayette LA #107 (farm nx)				WAFB	9 Baton Rouge LA (ID)
17	2330	KGBT-	4	Harlingen TX (Local News)				KZTV	10 Corpus Christi TX (film)
	(Tr)	KRGV-	5	Weslaco TX (Tonight Show)	28	Es	1830	WUSN-	2 Charleston SC (ModSqd.)
		KIII	3	Corpus Christi TX (LocalNx)					("Your Atlantic Braves Station")
		KRIS-	6	Corpus Christi (Tonight)		Tr	1930	WKY	- 4 Okla. City OK (Julia)
		KGNS-	8	Laredo TX (Tonight Show)				KOCO-	5 Okla. City (MovieOfWeek)
		KZTV	10	Corpus Christi (M.Griffin)				KWTV	9 Okla. City (Red Skelton)
		KLNI	15	Lafayette LA (John.Carson)			2000	KVOO-	2 Tulsa OK #110 (Movie)
		KHTV	39	Houston TX (Merv Griffin)	30	Tr	2130	KXIX	19 Victoria TX #111 (Tom Jones; satellite of KIII 3)
12	0730	KATC	3	Lafayette LA #108 (ID)					Best of DX.
	(Tr)	KGBT-	4	Harlingen TX					
		KRGV-	5	Weslaco TX					(You're starting out the season very well, Robert. dps)
	0700	WAFB-	9	Baton Rouge LA (TP)					

Net Dyer (WA5IYX/5), 327 Solar Drive, San Antonio, Texas 78227 (Apr-6 May) (Times CST)

Receiver: 1968 RCA color model GJ721W. Antennas: Wards 11-el. high-low VHF, 15 feet up, fix-aimed south-southeast; UHF indoor loop.

AI	Tr	0007	KRGV-	5	Weslaco TX	215	mi.	21	Tr	0026	KPLC-	7	Lake Charles LA	325
		0030	unid	11	Mexico (XEW net)					0030	WDSU-	6	New Orleans LA	510
		0045	KGBT-	4	Harlingen TX	215				0032	KGBT-	4	Harlingen TX	215
		0055	unid	10	Mexico					0035	KLFY-10		Lafayette LA	400
7	Tr	0008	KRGV-	5	Weslaco TX	215				0036	KTRK-13		Houston TX	185
		0009	KGBT-	4	Harlingen TX	215				0040	unid	4	Mexico (XEW net)	
		0025	unid	11	Mexico (XEW net)					0040	unid	8	Mexico (XEW net)	
		1959	KPRC-	2	Houston TX	185				0042	unid	11	Mexico	
		2306	KTRK-13		Houston TX	185				0050	unid	12	Mexico	
		2329	KHFI-42		Austin TX	80				0055	XHX -10		Monterrey NL Mex	290
8	Tr	0001	KPLC-	7	Lake Charles LA	325				0120	WVUE	12	New Orleans LA	510
		0003	WFAA-	8	Dallas TX	240				0120	WWL - 4		New Orleans (tent)	510
		0005	KRGV-	5	Weslaco TX	215				0120	WBRZ-	2	Baton Rouge (tent)	450
		0010	XET - 6		Monterrey NL Mex	290		28	Es	1829	WTWO	2	Terre Haute IN	940
		0015	KHOU-11		Houston TX	185			Tr	1959	KTVT	11	Fort Worth TX	230
		0028	WBAP-	5	Fort Worth TX	230				2325	KGBT-	4	Harlingen TX	215
		0030	KGBT-	4	Harlingen TX	215				2325	WBAP-	5	Fort Worth TX	230
		0050	KWTX-10		Waco TX	165		30	Tr	2140	KHFI-42		Austin (good color)	80
9	Tr	0115	KRGV-	5	Weslaco TX	215		M5	Tr	2315	KGBT-	4	Harlingen TX	215
10	Tr	0029	KRBC-	9	Abilene TX	205		6	Tr	0100	unid	8	Mexico (XEW net)	
		0030	unid	10	Mexico (XEW net)					0100	unid	4	Mexico (XEW net)	
										0100	unid	10	Mexico (XEW net)	

As you can see I am still plagued by unid. stuff from Mexico. Tropo the morning hours of April 21 was so strong that I was able to work some 600 miles into Alabama on 50 MHz via it. Several Louisiana contacts were also made. A fair amount of TE and F2 were noted on 50 MHz in April but none seems to have

reached the TV in MUF.

April 28 was a very big day for Es. I tried several times to get IDs, but Ch 2 and 3 were so jammed up I couldn't pull any out. The way April broke with Es and so far in May looks good, we should be in for a better summer than the last

In case any are interested, the April QST Es data of mine has one typographical error. Total days for 1967 should be 143, not 243; also, Feb-Mar 1964 and Jan 1965 should have zeroes as observations were made.

I hope I've gotten some more Es ID's by the next VUD. 73.

(Very good, Pat; your tropo and Es, as well as F2 and TE observations, are all of interest. Hope this is a good season as conditions seem to indicate. dps)

Don Ruland, 3219 Burnside Drive, San Antonio, Texas 78209 (mid-Apr- 7 May) (Times CST)

Receiver: 1968 Zenith color. Antenna: all-channel, apx 25 ft up, aimed NE.

<u>18</u> Es 1900 unid	2 Spanish (Hawaii Five-0) (21)(Th) (0730)	KFDM- 6	Beaumont TX
<u>21</u> Tr 0530	WCTV 6 Thomasville GA	860 mi.	KTVT 11 Fort Worth TX
	(my longest VHF tropo)		WALA-10 Mobile AL 630
	KCEN- 6 Temple TX		KHFI-42 Austin TX
0730	WJHG- 7 Panama City FL	780	KLNI 15 Lafayette LA (w/QRM, 380)
	WAFB- 9 Baton Rouge LA	440	WABW-14 Pelham GA 890
	WFAA- 8 Dallas TX		(my longest UHF tropo)
	WBRZ 2 Baton Rouge LA	440	KWTX-10 Waco TX
	KGBT- 4 Harlingen TX		KXIX 19 Victoria TX (tent.)
	KRGV- 5 Weslaco TX		28 Es 1900 WMAR- 2 Baltimore MD (video)
	KPLC- 7 Lake Charles LA		WSJK- 2 Sneedville TN (audio)
	WWL - 4 New Orleans LA	500	M6 Es 2200 KTCA- 2 St. Paul MN
	WDSU- 6 New Orleans	500	7 Tr 0650 KLTV 7 Tyler TX
	WVUE 12 New Orleans	500	0700 KRBC- 9 Abilene TX
	KATC 3 Lafayette LA	380	Total is now 46 (42 VHF, 4 UHF).

(Hey, Don--you sure started out your first UHF DXing with a bang with that Georgia catch; congratulations. What can you look forward to after that, hi... dps)

Bob Cooper, Jr., 6221 Norman Road, Oklahoma City, Oklahoma 73122 (9 April- 7 May)

(Times CST; CDT 26 Apr on) A moderately good transition period from winter condx to improved summer condx, including one interesting 72-hour tropo session Apr 26-29.

New antenna system installed during month: a pair of Swan 9-element low-band yagis stacked at 50 and 62 feet, pair of 10-element Finco MATV high-band yagis, two 7-ft parabolic dishes side by side stacked at 60 feet plus (not all on the same tower!). A substantial improvement all around, especially on UHF translator channels. Twin 7-ft dishes measured 20.5 db gain at Ch 14, rising to 29 db gain at Ch 80. And that's a bunch of UHF antenna gain.

Apr 13 very weak Es to Mexico, no id's.

Apr 14 Es suddenly to south on Ch 2; XEW-TV id'ed 1850; gone 1945.

Apr 16 tropo, KCSD-19 MO (297 mi), fair.

Apr 17 tropo, KHTV 39 TX (420 mi), fair.

Apr 18 tropo, KRCG 13 MO (350 mi), good briefly.

Apr 22 tropo, 0650, KCMO-5 MO (297) good before KOCO- sign-on; 0800, KMID-2 TX (335) fair over & thru KV00-. (24) 0800- KHNE-29 NB (345) very good

Apr 24 tropo, 0640- KCBF-11 TX (278) fair 0801- KCSD-19 MO (297) very good

KLBK-13 TX (278) 0805- KXNE-19 NB (485) good

0714- WJYJ-14 IL (501) fair K7ØEK 70 (107) good

(The next 72-hr period, running 4-26 thru 4-29, was the first of the season's above-normal tropo periods. In all, an even 150 stations were logged including 73 UHF (with translators). Many 300-500-milers were in and out the entire period.)

Apr 26: with heavy fog at 500 feet and up, tropo started to the SW-west and spread to the north between 0700 and 1215 CDT.

Logged: KFDA-10 (250 mi), KFDO-8 (190), KVII-7 (250), KUPK-13 (270), WIBW-13 (245) KLBK-13 (278), KTXS-12 (250), KCBF-11 (278), KMID-2 (335), K77BI K79AZ K8LAN Alva OK (101), K8ØBT Seiling OK (78), K79?? Cheyenne OK; plus a bunch of UHF translators in Texas panhandle in 145-200-mi range: K75BN Hansford TX (192), K75AV Wellington TX (142), K71BJ K73BJ K75BM K8LAN Mooreland OK (100), K7ØDB K74CJ Claredon TX (172),

K74BF Arnett OK (120), K73AW Turkey TX (191), K71BK K73BK Hansford County TX (192), K76BD K8ØAY Booker TX (176), K76AU (140) K78CM (155) Shamrock TX, K78AZ Matador TX (198), K78AP Miami TX (173), etc. Many were 10 watts, some 20, a few 100 watters. Most were repeating either Amarillo stations or OKC but K78AZ was repeating KCBD-11 Lubbock. Also logged KGIN-11 (375, KHOL-13 (365), and KHPL-6 (370) to north.

Apr 27: Gulf moisture had moved north into central Nebraska by early AM, and a front line extended N/S from Nebraska into Texas. Exceptional signals from Neb. included a 410-mi Ch 9 logged through my 6-mi KWTW local!

Btw 0655 & 1045, logged: KHAS-5 (345), KOLN-10 (370), KGIN-11, KOMC-8 (350), KNME-7 (485), KPNE-9 (410), KLNE-3 (370), KHNE-29 (345), KLBK-13 (278), KUPK-13 (270), KKNE-19 (485), K77BI K79AZ K8LAN (101), K71BJ K73BJ K75BM (100), K7ØEK (102), KHTV 39 (420), KCSD-19 (297), and KQTV 2 (330).

Es 1800-1955: WUSN-2, WUND-2, WFMY-2, WSAV 3, WESH-2, WEDU 3, and WTHS-2.

Apr 28: this was the peak day of the period for tropo. Of special surprise were the strong Iowa signals running from WMT-2 up thru K8LAW Dubuque and everything in between.

Btw 0525 & 1200, logged: KYTV 3 (275), WMT-2 (548), KCMO-5 (297), WOW-6 (405), WHO-13 (471), KRNT-8 (471), KHQA-7 (485), WMBD-31 (625), K7Ø?? (repeats KHQA) K76BZ (WHO) both Ottumwa IA (460), K78?? Keosauqua IA (452, KHQA), K8LAW Dubuque IA (594, supposed to repeat KWWL but KHQA was tearing up KWWL so badly at translator site that KHQA was station being re-transmitted!), WEEK-25 (625), WICS 20 (590), KTHV 11 (300), KVFD-21 (507), KMEG-14 (488), WOI-5 (550), WJY-14 (501), KHFI-42 (350), WAND-17 (660), WCEE-23 (690), K18AA KS (240), KHNE-29 (345), KHTV 39 (420), K74BY Atlantic IA (424, WOI), WIRL-19 (480), KETV 7 (420), K74CQ (WDAF) K76CA (KCMO) K78BX (KMBC) all Marceline MO (387), KCSD-19 (297), KYNE-26 (405), WKMU 21 (570), WEHT 25 (576), K75CH Junction City KS (238, KAKE), KTWU 11 (247), KDNL 30 (485), WHA-21 (680), WTVO 17 (690), WMTV 15 (680), KCIT 50 (297), and W7LAE La Salle IL (605, WMBD).

Brief Es, 1900 tune-in until 1920 or so: WUSN-2, WSAV 3, WEDU 3.

And then starting at 2000, tropo bounced back thru 0200 (when I quit) on 29th, and included: WEHT 25, WFIE-14 (576), WKTR-16 (785), WLEX-18 (740), WKYT-27 (740 mi and snow-free!), KWEX-41 (420), KHNE-29, WLKY 32 (675), WXIX 19 (756), KHTV 39, KDNL 30, KXIX 19 (445), KTRK-13 (420), KGIN-11, KTBC-7 (345), KWTX-10 (250), KOLN-10, KQTV 2, KPRC-2 (420), KMBC-9, KMTV 3 (420), KRLD-4, WDAF-4 (297), KIII 3 (530), WCIA 3 (598), and KETV 7.

Apr 29: conditions began to break up early this day and by 0830 we were in heavy weather with tropo sliding fast.

From 0500 to 0830, however: WAPI-13 (623), KLFY-10 (485), KNOE-8 (389), WJTV 12 (473), KALB-5 (440), WMBD-31 (625), KTVI 2 (485), WHNT-19 (630), WJY-14, KMEG-14, WYAY-31 (630), KVFD-21, WCFT-33 (575), WOWL-15 (565), KCIT-50, WBMG 42 (623), KATV 7 (300), WICS 20, WKMU 21, et al.

(I'm convinced I have a winning antenna system at last, except possibly on high-band VHF, which I intend to rectify soon. The twin 7-ft dishes on UHF are outstanding across the band but on the translator channels they are something else. A note to Bob Seybold--now resting at 96 UHF stations (Chs 14-83), so watch out!).

May 2 Es: 2006-2130 new on air KOAI 2 Flagstaff, Arizona, zero offset, NBC when seen; this one should be seen on double-hop Es over much of the east including Michigan, Ohio and Great Lakes area often this summer. 2034-2102 KORK-2 Las Vegas. 2050-2102 XHBC-3 Mexicali. 2200-2250 probable KTVU 2 San Francisco, weak level behind KVOO.

May 5 Es 1308 weak to east, Ch 2; had to leave before it built up.

May 7 Es 0730 weak to NE, Ch 2, no ID. 2104-2140 Es Ch 2-3 NE; heavy QRM, signals not good, but probably KDKA-2, WSAV-3 and KYW-3. 73.

(So it is "a moderately good transition period," hm, Bob? What will the top of the season produce...? dps)

Again, southern Calif. coastal tropo condx have been up and down like a yo-yo with unsettled turbulence occasionally. As of mid-May, it is good and improving.

To all of my correspondents: I hope to get back to this enjoyable written contact with my friends eventually. Present schoolwork has kept this to a trickle.

DX MAIL BAG

Summer has begun to show its lovely face again and with it the DX season swings into high gear. With the large number of May skip openings reported, indications are it may be a bang-up year. In between all the upcoming DX be sure to sandwich in a visit to the WTFDA convention at Bob Seybold's "DX Heaven" -- this is a trip you shouldn't miss as it may be the highlight of your summer!

First off this month let's take a look at our new members:

Glen R. Neal, 1005 N. 5th, Sayre, Okla., 73662
John P. Lombardo, 23 Grove Terrace, Irvington, N.J. 07111
Charles Spellman, 5411 Valther Ave., Baltimore, Md., 21214
Marvin Garber Jr., 2539 Kessler Blvd., Lincoln, Neb., 68502
Paul and Les Luchter, 568 Rockville Ct., Oceanside, NY 11572
Robert H. Baker, 14 Walnut Circle, Box 337, Humboldt, Ia. 50548
Roger Carriere, 196 Joseph, Buckingham, Que., Canada
William Woodfield, 701 W. 177, Apt. 34, New York, NY 10033
Bill Smith, 3900 E. 24th St., Sioux Falls, S.D. 57104
Richard Post, 19 Skillman Lane (North Oaks) St. Paul, Minn. 55110

Renewals include:

D.Q. Glenn	Pat Dyer	Mark Lewis (3 years)
Dennis Glenn (2 years)	John Ramsey	Bob Seybold
Mike Northam (2 years)	Rog Winsor	Bill Bens

For those keeping track of new addresses please move Paul Ciceri to 1136 Prado Pl., Windsor, Ont., Canada.

Turning to the hot news of the month, Mark Lewis reports his interest has spread to the VHF radio (30-50 band) as of late. Mark reports he's satisfying his new interest by utilizing Wayne Plunkett's receiver. By the way Mark has a new tower -- 40 feet -- which should be a big help.

Apparently Bob Cooper has given a number of our club members "Conrac fever". After Bob reported his success with this specialized piece of gear, Morrie Goldman promptly located a used model somewhere in the marketplace. Latest to join just in time for the summer DX season are Gary Olson and Roger Brown. Hopefully they'll be as successful as Bob and Morrie were last year! Incidentally, Gary reports things are looking up after paying a visit to Dave Janowiak's "bargain basement" in Milwaukee. Word has it that a quick deal at the right price was made for an LPV-190 antenna which it is rumored now overlooks the community of Deerfield, Illinois.

Another of our multi-band DXers is Richard Post of St. Paul, Minn., who likes DX "just about on any frequency". Although he hasn't spent too much time at the TV dials he has logged a few stations from beyond the horizon - his best catch being ch. 2 from Greensboro, N.C. Dick has only 3 UHF loggings and will be looking forward to more exploration in that band in the future.

It looks like our group may have another "dynamic DX duo" stationed in the south. Don Ruland and Pat Dyer are taking San Antonio by storm -- at least according to the latest results in F2 reception and "across the gulf" tropes. If you guys keep this up we'll all be moving south -- and not just for the weather!!

Speaking of pairs, Paul and Les Luchter have just checked aboard. Just two years apart in age, these two very active brothers like everything from stamp collecting to sports (with a good deal of DXing in between - hi). Good to have you with us guys!

On that note we'll close up the mail box for another month. See you in July -- hopefully with more good news.

73's --- your editor /Box 5001/

CENTRAL TV DX

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

June 1970

Next Deadline: June 30

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

Man, what a turnaround! Anyone caught looking the other way this month missed plenty of DX! Conditions changed from just awful to very good almost overnight, with first E skip in abundance, then a good tropo opening near the end of the period. As this column is being prepared (several days before Memorial day) things have quieted down. This has to be only temporary! Looks like this will be a GREAT summer.

The comment of the month comes from Bill Draeb. Bill notes (as of 5-11), "...the skip season got off to a good start...with Es showing up on 6 days already; I doubt if I had that many days ALL LAST SEASON!" Your editor's log says Es were in on 4-27 and 28, 5-6, 9, 10, 11, 14, 15, 16 and 17. Nothing since then. The 9th was outstanding for ONE single hop and a couple of possible double hops, the 10th for the strength and length of the opening.

In contrast, tropo conditions were down...until 5-19 and 20! Finally, a good frontal depression formed from the Great Lakes into Pennsylvania. I'll save the details for next month, so that more reports can help detail the opening. Suffice to say, five new IDs were added here including WBRE-28 at about 460 miles. I've NEVER seen Catsburg stations in as strongly (at about 300 miles). MORE LATER.

Let's begin the season with these reports:

Ray Bell, 413 Burton Ave., Washington, PA. 15301 (EDST)

4-30 Tr 2100 WWVU-24 Morgantown, W.VA. 40

5-9 Es 1230 KORN-5 Mitchell, SD 940

Thanks Ray. That's the furthest East E's were reported to the column. Hope 5-9 and 10 continued to be productive for you!!

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

3-17 WSNS-44 Chicago, IL (NEW local)

5-5 Trops up again in the medium range

3-18 Tr 2000 KFIZ-34 Fond du Lac, WI

5-6 Es 2125 KIII-3 Corpus Christi (first skip of the season IDed at 2215!)

3-21 Tr 2245 WICD-15 Champaign, IL

5-9 MS 0645 Un-Ided IHTP, SW

4-21 Strong Aurora, No IDs

Es 1840 Un-Ids on 2-4. Out at 2130

4-26 Tr WICD-15 and WJYY-14 noted with other Us in 200 mile range.

5-10 Es 1035 Un-id Es. Remounted annts on roof. Back in at 1945. Skip booming in but hard to ID with many stations. Noted WEAR-3 at 2140, KGNC-4 at 2200 and KFDX-3 at 2210.

Gary's QTH is a new one for him. He notes that he's one of the growing number of Conrac fiends...with purchase of an AV-82 E. He's using a JFD LPV 190 and JFD Zig-A-Log outside. Bet your glad to have the antennae out of that tree Gary!!

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

4-26 Tr 0614 Un-ID ch 2.
0715 WNEM-5 Bay City, MI

5-18 Tr 0448 WGR-2 Buffalo, NY

5-3 MS 0626 Un-Id 4 West
0632 WTMJ-4 Tent

5-11 MS 0445 WCBS-2 NYC Long Burst of Bullet TP

Charles notes that Bob Cooper's Un-Id ch 3, re last VUD is WKYC. Thank you sir. Hope you too catch some of those daytime Es!

Ferdinand Dombrowski, WTFDA Hq., Milwaukee, WI. 53204 (CDST)

5-8 Tr 0825 WXOW-19 LaCrosse, WI (tent.)

5-10 (cont)

5-9 Es 1720 XEFE-2 Nuevo Laredo, Mex.
(tent.) 1250
1800 KWGN-2 Denver 900
1820 KMID-2 Midland, TX 1100
1930 KOOK-2 Billings, MT
(tent.) 1000
2000 CKCK-2 Regina 950
2055 KOAI-2 Flagstaff (NEW) 1400
2130 CHCT Calgary 1350

Es 1730 WBRZ-2 Baton Rouge
1800 WBAP-5 Ft. Worth
KFDX-3 Wichita Falls
Un-ID 7!!
KTBS-3 Shreveport, LA
1900 KBTX-3 Bryan
WEDU-3 Tampa
KALB-5 Alexandria, LA

Opening continued to 2130 w/
many tentatives to LA., and TX

5-10 Es 0950 KUSH-2 Charleston, SC
1100 WESH-2 Daytona Beach
WWAY-3 Wilmington, NC (tent)
1630 KMID-2 Midland
1720 WLBT-2 Jackson, MS
WESH-2 Again

Ferdie hit the jackpot with KOAI logging. He's first in the midwest with this new-on-the-air station, so far as I know. The brew-city total now stands at about 355.

William J. Draeb, Ellis Street, RR#2, Kewaunee, WI. 54216 ICST/CDST)

4-11 Tr 2030 WKNX-25 Saginaw, MI

5-9 Es 1805 KOB-4, 1854 KOA-4, 1905

4-12, 14 and 15 tropes to MI. and N. IN.

KID-3, KWGN-2, 1955 KRTV-3,
2030 KXLY-4, 2045 CKCK-2,
2107 KOMO-4 (tent. double hop)
plus others.

4-21 As 2100 on 2-5 No. Ids.

4-26 Tr up again to Mich. (CDST)

5-10 Es 1800 KTBS-3, WOAL-4, 1812
KJAC-4, KATC-3, 2000 KBTX-3,
KACB-3, 2100 KGNC-4, KRLD-4,
WBAP-5, 2134 WEAR-3, WKRG-5,
WDIQ-2, and others Un-Id esp.
on 6.

4-27 Es 1200 KUTV-2, KCPX-4 and KSL-5,
plus tentative Denver on 2,4, and 6.

4-28 Es 2004 Un-ID 2 plus.

5-11 Es 1900 Weak signs on 3 & 4.

Bill has written to KOMO for positive identification. His report is a good indication of the unusual nature of the evening of 5-9. Lots of LONG single hop.

STATISTICS

Glenn Hauser, editor
 Box 1466
 APO San Francisco 96288 MAY 1970

Sawatdii! This month we begin a series of lowband MS DX distance record listings. From the many short distances, it is apparent that more research is needed, but this is at least a start.

CHANNEL 2 MS DX RECORDS

Call	Location	Miles	DXer, Location	Comments
LNKT	Los Angeles CA	955	Gene Webb, Seattle WA	
KTVU	Oakland CA	575	Doris Johnson, Longview WA	
KTVR	Denver CO	995	Doris Johnson, Longview WA	now KMGH
WESH	Daytona Beach FL	1090	Glenn Hauser, Enid OK	
WSB	Atlanta GA	755	Robert Cooper, Oklahoma City OK	
KBOI	Boise ID	370	Doris Johnson, Longview WA	
WRD	Chicago IL	920	Ghislain Girard, Arvida PQ	
WMT	Davenport IA	1240	Morris Foote, Middletown ID	
KOBT	Great Bend KS	1335	Doris Johnson, Longview WA	
WJTX	Baton Rouge LA	1095	King Schafer, Kenmore NY	
			tie William Nieman, Buffalo NY	
WFO	Bangor ME	1090	Barney Rauch, Peoria IL	now WLBZ
WAP	Baltimore MD	1165	Glenn Hauser, Enid OK	
WGBH	Boston MA	920	John Owen Broomall, Atlanta GA	
WJBK	Detroit MI	945	Ed Bourgeois, Norco LA	
KTCA	St Paul MN	1070	Ghislain Girard, Arvida PQ	
KPEO	St Joseph MO	1225	Jim Grover, Crossfield Alta	now KQIV
KOOK	Billings MT	995	Ken Neal, Hamlin TX	
KTOP	North Platte NB	1155	Doris Johnson, Longview WA	
KLRJ	Henderson NV	1385	Barney Rauch, Peoria IL	now off
WGR	Buffalo NY	1100	Glenn Hauser, Enid OK	
WCBS	New York NY	735	Gary Olson, Barrington IL	
WCTV	Utica NY	860	B. J. Bingham, Festis MO	
WPEY	Greensboro NC	1000	Glenn Hauser, Enid OK	
KDLX	Dickinson ND	1205	William Nieman, Buffalo NY	
WLND	Dayton OH	1040	Fred McCormack, Des Lacs ND	
KVOO	Tulsa OK	1195	Morris Foote, Middleton ID	
KOTI	Klamath Falls OR	495	Gordon Simkin, Idaho Falls ID	
KDKA	Pittsburgh PA	925	Ed Bourgeois, Norco LA	
WJSH	Charleston SC	1050	Glenn Hauser, Enid OK	
KPRC	Houston TX	1120	Bill Draeb, Kewaunee WI	
KILD	Midland TX	1215	Ken Moses, Newton NC	
KUTV	Salt Lake City UT	740	Jim Grover, Crossfield Alta	
KDEH	Spokane WA	740	Randy Miltier, Campbell CA	
WBAY	Green Bay WI	1005	Ed Bourgeois, Norco LA	
KELQ	Casper WY	850	Doris Johnson, Longview WA	
WICR	Calgary Alta	525	Gordon Simkin, Idaho Falls ID	
			tie Doris Johnson, Longview WA	
CHBC	Kelowna BC	305	Doris Johnson, Longview WA	
CHIC	Sault Ste Marie Ont	785	Robert Berg, Norfolk VA	
CHMT	Montreal PQ	680	Bill Draeb, Kewaunee WI	
WBOY	Regina Sask	1235	Ken Neal, Hamlin TX	

Note that several stations, particularly the newer ones, are missing. YOU may hold the record. Additions and revisions to this listing are very much wanted!

On Rank. We started out to produce a rank listing that we felt would be more meaningful than those in AIPA and in other, extant, clubs. However, the cooperation necessary to sustain it has not been forthcoming, so in the near future we will revert to the old system. Lack of stencils forces us to delay this, and revisions and other topics till next time.

**IT'S WHAT'S
HAPPENING!**

WTFDA 1970 CONVENTION

CONVENTION 1970

The Worldwide TV-FM DX Association proudly announces its second annual club convention, to be held August 7, 8 and 9 in Dunkirk, New York (western NY state). Well known DXer Bob Seybold is hosting the convention and arranging plenty of activities for all attending.

Last year, WTFDA held its first convention on short notice and the convention was still a great success! This year, with earlier warning, and a good deal larger membership, we expect to make last year's convention look like a small DXer meeting!

Though we haven't as yet tied the ribbons on the exact convention program, we have some convention activities already planned. Convention host Bob Seybold has been preparing a hilltop DX den, to demonstrate to all attending what its like to TV and FM DX from about 1400' above average terrain. Tec Notes editor, Bob Cooper, plans to try out his super TV-DX gear at this prime location as well. Morrie Goldman, WTFDA Staff member, has planned a slide presentation on using a video tape recorder for recording TV-DX. And, of course, there will be plenty of time for just meeting fellow DXers and talking DX!

Mounds of literature and fact sheets will abound, representing most North American TV-FM antenna and equipment manufacturers. It is also hoped that some CO's will donate prizes, as was the case last year. Beldon Wire and Cable was, in particular, most generous.

What about the expense for all this? The cost is well within your budget. Nightly motel fee is \$6-8, and even lower if you share a room with another DXer. The convention registration fee is \$10, and includes one dinner, refreshments and other convention expenses. So, not including your transportation, the convention could cost you less than \$30.

DIRECTIONS: Coming from west or east, best route is Interstate 90, (NY State Thruway is same highway) to exit 59 (Dunkirk-Fredonia interchange). Site is no more than 500 feet from exit 59, Vineyard Drive & Bennett Road, Route 60. Most motels within 2 miles of exit 59. If coming by routes 5 or 20 (both main US routes east & west) site is about 1 mile from route 20 at junction of route 60, Bennette Rd. By route 5, about 2 miles south from Rt 5 - Rt 60 junction. If coming from south, then route 60 through Jamestown is best. (North from Jamestown). Bob's phone number is 716-366-0957. Address is: Bob Seybold, Bennett Road, Dunkirk, NY.

Don't forget to bring along your log and veries to show off, and if you have any DX slides or movies, take them too!

If you've ever attended a DX convention before, you know how much fun they can be. If you've never been to one, now's a great time to start!

For registration and reservations, please use our registration form.

See you in Dunkirk!

TS

where the action is

* PREDICTIONS OF DX CONDITIONS TO COME THRU JULY-15 *

E SKIP

The main thrust of the E skip season is upon us. If most past years are any indication, E skip activity will build to a peak early in June, between the 6th and 12th, and then fall off for a week or so. It should revive again around June 20th and be quite active with some of the best openings of the year June 20-30.

Numerically, there are usually more openings in July than in June, but the openings tend to be weaker (ie. less likely to reach channel 6 or FM for sustained periods). July openings tend to start more slowly (ie. no sudden rush of strong signals over all of low band), have less violent fading, and fade out more slowly.

The hot periods to be especially wary this month are June 6-12, for intense late afternoon openings that climb into the FM band and MAY even reach into high band (7-13), and June 19-25 for equally intense openings that climb into the FM band, and possibly into high band.

The 4 PM to 8 PM period is still one of the best of the date, and probably 60-70 % of all openings that occur during June will run into this period, run during this period, or start during this period and run later.

Openings that hang around until 11 PM or after mid-night should be watched carefully for a re-birth early the next morning (5-8 AM).

Loggings south of Mexico or Cuba are not likely during this period, but should not be ruled out in the 2 PM to 7 PM time slot.

Canadian openings, even perhaps a rare Alaskan on channel 2, should be watched carefully in the 8 PM to 11 PM time period, during the first two weeks in June and perhaps again around the 20-25th period.

Finally, if you run across a good opening one day in a certain time period, check at the same time or a little before, for the next couple of days. Es repeats itself in 2-4 day segments, and if you catch a 'segment' early, it may give you several days of DXing activity.

TROPO

The summer warm troposphere season is upon us. If you live in a region of the country where there is plenty of moisture about (ie. typical early AM and PM humidities in the 70-80 percent bracket), be especially alert for warm temperatures, calm winds and high humidities without heavy weather (ie. no strong fronts or thunder storms). This type of weather should produce good morning tropo out to 400 miles plus on high band and UHF, with equally good conditions after 9PM to 10 PM in the evening.

If you don't already have a few 'check' stations 100-250 miles distant that you check for signal level (one each high band, UHF, in each of four directions), get some! Note how strong the semi-locals generally ride,

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 IF NEEDED, 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.

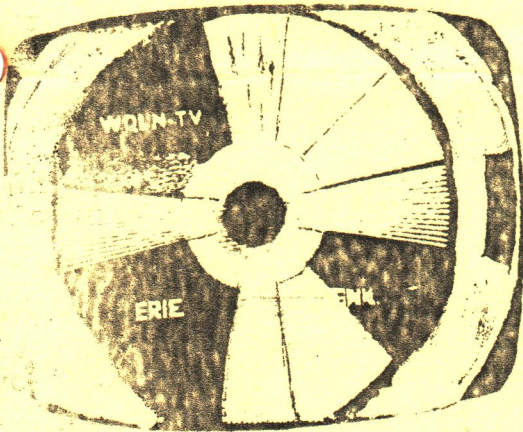


REMEMBER YOU NEED NOT BE A MEMBER OF AN ANARC CLUB TO ATTEND. THIS CONVENTION IS OPEN TO ALL DXERS REGARDLESS OF CLUB AFFILIATION. COME ON DOWN AND ENJOY THE DX TALK, AND MEETING OLD AND NEW FRIENDS. WFDX WILL BE WELL REPRESENTED AS USUAL. BRING YOUR LOGBOOKS, PHOTOS, TAPES, VCR'S, ETC. ESPECIALLY IF 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

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

- 4-26 Trops good to No. IL and WI.
- 4-27 Es 1135 Un-Id 2, NBC Tent. KMID.
1731 WESH-2 plus Un-Ids. So.
- 4-28 Es 1245 KPRC-2 plus Un-Ids.
1630 WTHS-2, un-ids on 3 and 4
plus CCI from probable Carribean
amateurs.
1655 Un-Id Cuban TP on 2.
2000 KMID-2 Very Strong.
- 4-29 Tr Akron, Cleveland Us at 1600
1615 WJAN-17 Canton, OH. NEW.
- 4-30: Tr Chicago Us excellent at 1125.
So. Bend perfect at 1500.
- 5-2 MS WCBS-2 NYC. Aquarids.
- 5-6 Es 1300 KOOK-2 Billings
KDUH-4 Hays Springs, Tent.
- 5-9 1940 KOOK-2, Un-Id Canadian 3, and
U.S. 4 WNW.
2040 possible double hop (suspect
KNXT-2).
- 5-10 1135 WESH-2. 1200 KMID-2,
KDIX-2 in with WESH! KDIX
local qual at 1230.
1307 KOOK-2. 1500 Un-Ids to
ch 4.
1730 to 2300 Es in solidly!
Best logging XEFE-2 at 2258.
NEW here. Many stations in
the mid-evening hours, IDs
became nearly impossible.
- 5-11 Es 0930 KJAC-4 (NEW), KPRC-2.
Latter in almost all day with
weak sig.
- 5-12 Tr to Chicago at 1330.
- 5-14 Es Weak on 2 all day.
- 5-15 Es same as 14. Resemble long MS
bursts.
Tr 1825 WSEE-35 Erie.
- 5-16 Es 1730 KMID-2, KGNC-4.
1800 KCKT-2, KARD-3 (NEW).
KCMO-5, (NEW).
1930 KGNC, KCKT and KWGN-2.
- 5-17 Es 1000 KMID-2.
1100 KWGN-2.
1200 KCKT-2.
- 5-18 MS 0526 WMAR-2 Baltimore.



WHEW!! A good month. Let's hope this continues. Hope to hear from EVERYONE next month!!

73s, best DX

Roger

NOTE:

THE ABOVE PHOTO WAS TAKEN BY MORRIE GOLDMAN IN 1969: CH. 54 IN ERIE, PA.

THE NEBRASKA TV NETWORK MAP LAST MONTH WAS PREPARED AND OFFSET PRINTED BY CTV EDITOR ROGER BROWN AT NO COST TO WTFDA. THANK Y U VERY MUCH, ROGER. (HE APOLOGIZED FOR THE QUALITY OF THE REPRODUCTION, BY THE WAY, BUT IT WAS A FIRST ATTEMPT AND LIKE OUR FIRST ATTEMPT IN JANUARY, NOT THE BEST SUCCESS).

CCI

BEFORE JUNE 13 - Bill Heusmann, 2804 Brattleboro Ave.
Des Moines, Iowa 50311

AFTER JUNE 13 - Bill Heusmann, 3116 Sangamon St.,
Steger, Illinois 60475

UnIDed programs:

Robert Grace, Box 309 Franklin, Texas 77856 (CDT)

Tues., 4/28 12:00 Ch. 2, skip. Shortly before noon, promo for 'Galloping Gourmet' at 4:00 that afternoon. 'Andy Griffith' began at noon. Before start of show, announcement as follows, 'The following program was pre-recorded earlier today from the CBS television network for presentation in this time zone.' Station definitely from West. Suspect KNXT, KOTI, or independent KTVU.

" " " Evening, Ch. 2, skip. Station Canadian. At 19:00 'Red Skelton' came on, same episode seen on CBS at 19:30. 20:00, a hockey game, announced as a CBC colour presentation.

Bill Bens, 5575 Spruce Wood Drive, Cincinnati, Ohio 54239 (EST)

Tues., 4/21 AURORA On 90.7 MHz, progressive rock heard between 23:30 and 23:55, with very little talking between. On 104.3 MHz, NBC Radio News on the hour at 21:00. Call like KGBF was heard later, but not sure if same station with NBC. Also, ABC News at 21:30.

Eric Brown, 624 Evergreen, East Lansing, Michigan 48823 (EST)

Mon. 5/9 19:45 Ch. 3, skip. Woman singing on stage, with piano next to her. No audio, but suspect CKOS, or CBWFT. Direction west. KOOL in and out at that time.

20:40 Ch. 2, skip. Jackie Gleason Show, which doesn't quite fit, as CBS pre-empted Gleason with Washington march special. MDST also carried pre-emption, then 'My 3 Sons'. MDST station apparently carried pre-emption at 18:30, and 'My 3 Sons' at 19:30 (20:30 in Michigan) Who carried Gleason at 20:30 EST/CDST?? (My first thought on this is a Canadian, such as CKCK. bh)

Mon. 5/10 15:00 Ch. 2, skip. Movie, 'Boy on a Dolphin' (Alan Ladd, Sophie Loren, etc. Greek setting) with spot at 13:15 EST for clothing with slide for 'Battlesteen's Dept. Store'.

Bill Heusmann, 2804 Brattleboro Ave., Des Moines, Iowa 50311 (CDT)

Sun. 5/9 10:58 Ch. 3, skip. Station Ø offset with KTVO, hence 3-. WW2 movie set in Philippines, believed to be 'The Longest Hundred Miles'. At 11:21 after break (which I missed) a slide reading 'Movie time' and back to film. Suspect WSYR as Syracuse paging also.

With the big skip season hopefully upon us, a word or two on what we can use in CCI might be in order. IDing mystery stations is decidedly difficult, as the results of this column have shown. However, some kinds of information stand a better chance of being IDed than others. We must have something that basically can be traced back to but one station. This means that a report of a usual network show, with no local breaks is of no help. Were that show delayed, the field is narrowed down quite a bit. Offset patterns, with no accompanying programming are of no help. By comparing to offsets of other stations, one can guess what the unIDed station is, but there is no way to be sure. MS unIDeds are particularly difficult. Many test patterns, colour bars, and the like are run by so many stations that the mystery station could be most anything. In short, in order to have any hope of IDing a station, we must have definite programming details, the more the better. To fill a page with vague items having no hope of identification is just a waste of time, both yours and mine. This is why you may occasionally find something which you contributed not appearing in CCI; it just wasn't worth the trouble. It's unfortunate, but necessary. Please don't feel hurt!

73 & lots of skip,
BILL

FM DX

718 N. Fremont Road
Valparaiso, Indiana
46383

Roger Gravelle 35 Aldborough Avenue St. Thomas, Ontario CANADA

All DX by tropes 3/9 WSPO 94.7 Columbus, Ohio @1930. 3/30 WCUE 96.5 Akron, Ohio @2315; WYSU 88.5 Youngstown, Ohio @2330. 3/31 WBWC 88.3 Berea, Ohio @0018; WEDA 95.1 Grove City, Pa. @1705; CKQS 94.9 Oshawa, Ontario @1715; CBC 94.1 Toronto @1730; WRWR 94.5 Pt. Clinton, Ohio @1800; WFRO 99.1 Fremont, Ohio @1946. 4/7 WYDD 104.7 Pittsburgh, Pa. @2045; WTHM 103.1 Lapeer, Mich. @2100. 4/8 WOUB 91.3 Athens, Ohio @1710; WJER 101.7 Dover, Ohio @1730; WCOM 101.7 Urbana, Ohio @1748; WAUP 88.1 Akron @1842; WBGU 88.1 Bowling Green, Ohio @1845; WCBE 90.5 Columbus @1900; WCDR 90.1 Cedarville, Ohio @1950; and WHIO 99.1 Dayton, Ohio @2311. 4/9 WFMK 99.1 East Lansing, Michigan @0001. WFMK call was for Mt. Horeb, Wis. 92.1 (Whatever happened to WFMK Wisconsin members? RWW) Received verie back from WBWC 4/9. I called Cedarville to obtain an unusual verbal verification. I let the engineer at the station hear my reception. He said it was great to know his 3650 watt station was reaching out 300 miles. He is to send me a ~~written~~ verification also. Bill Bens wanted info on 10 watt stations. Per v/c WBWC Berea, Ohio operating power 10 watts, derived from a Gates BFE-10 Transmitter. They have a Gates FM-22 antenna, 2 ring elements, mounted at 108 feet.

Larry Vogt 8309 Greeley Boulevard Springfield, Virginia 22152 EST

Here it is the end of April already and no Es observed in 1970 at this QTH. Last Es for me was at 1745 on 12/24/69 when I caught CKY 92.9 Winnipeg. Next new logging was 3/26 @1020 WAVT 101.9 Pottsville, Pa.. Then on 3/27 new 75kw stereo local WETA 90.9 began testing. (Licensed to Wash.D.C., QTH Arlington, Va.) My first taste of super power and it's gross...they are wide and cause images. Really makes me appreciate the lower power 50kw stations we have in this zone. 3/30 @0003 WGAL 101.3 Lancaster, Pa.; 4/1 @1000 WEZS 103.7 Richmond, Va. for 2 needed semi-locals. At 1900 on 4/21 strange sigs from NNW on ch. 2 and very rough sounding sigs on 10 meters hinted of aurora, but on FM the 2 newies were probably tropes: WIUP 91.3 Indiana, Pa. and WBUF 92.9 Buffalo, NY. That covers the DX...At school I dropped much despised liberal arts and switched to electronics technology. On 3/23 I purchased a 500-TX. The selectivity is copasetic and the push buttons are very handy, but the 200 watts and autoscan are ridiculous. I don't know what kind of luck others have had with the 500-TX, but the construction of this one seems a bit shoddy. I have had to fix 2 loose wires and replace the on/off switch so far. Looks like perhaps I should hold on to the FM 200B in case this monster craps out right in the middle of an opening. Mine may be an exception, and there have been no "electrical" problems, but if they let loose wires and a bad switch slip thru, I can't be too optimistic. Up to 270 stations in 29 states, 2 Provinces and 3 countries. 73 and PEACE. (Welcome back Larry. Nice to hear from you and I certainly appreciate your gracious comments about this column. RWW)

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

Tropo started in earnest on 4/6 w/Gulf coast stations rec'd. as follows: KPFT 90.1 Houston, TX; KBNO 93.7 same w/HP 70 and KWUE 102.9. Early 4/7 KSMB 94.5 Lafayette, La. @470mi; WJMR 97.1 La. w/UG rock. WNOF 101.1 "shaping the seventies" from La; WROA Miss 300 miles and finished up w/WCIS 104.9 and WPMP 99.1 both Miss. @250mi. On 4/8 WNSL 100.3 Miss @280 and WFAS 93.1 Savannah, Ga. @200mi. On 4/10 all quiet when WVOG 99.9 Boca Raton, Fla. @550mi popped in, everything else that session local, so must have been a tropo burst. 4/11 WREO 98.5 Miss. Nothing until 4/18 when trop weekend again: KREB 106.1 La; WKYB 106.7 Vicksburg, Miss. and WSJC Magee, Miss 107.5. On 4/19 from 92.1 every channel full; KRLD 92.5 Dallas; KIEPK 97.9 and KHCB 105.7 both Houston; WAFB 98.1 Baton Rouge w/HP 70; WMLT 106.9 NC; WUOA 95.7 Tuscaloosa, Ala. (ex WTBC). Later KRVS 88.3 Lafayette, La. (VJ says 10w) @470 miles. (Great Waldo RWW) On 4/20 1330 high meteor burst count on 106.9 w/ant. due N. Several superbusts w/mx; did get "in the Washington" man talking, nothing identifiable. @2000 tropes again w/unbelievable strength - knocking out locals in 1-200 mi. range KUHJ 88.7 Dallas (VJ sez 91.3)(?); WKES 88.9 Tenn. "Your channel of blessing"; KTXN 92.1 Tx; KELT 94.5 Tx @200 miles; "The million dollar sound of KFOU 96.5 Chorus Christi, Tx; KBGC 106.5, KNRO 106.9 Conroe "home of old yeller" and Astro BB network. On 4/21 KOKE 95.5 Tx; KBUC 106.3 Tx (suburb of San Antonio Waldo) countryopolitan; KXYZ 96.5 "24 hr Love Radio. stereo 96.5" & KIKK 95.7 and KODA 99.1 Houston. WYNK 101.5 B. Rouge and hrd. revolutionary "R. Free Austin KUT 90.7. End @0630 w/WDIX 106.7 SC. WWWB is 102.5, nothing on WBNJ 100.3. (Waldo: a good report and I hope to hear from you regularly RWW)

Hank Holbrook 7211 Chestnut Street, Chevy Chase, Maryland

FM still at a slow pace here with only two new additions to the log so far in April. WETA Washington, D. C. was noted on the first with an equipment test from 1954-2018 EST. This station commenced regular broadcasting on 4/20 on 90.9 and their 80kw should be heard afar. Ever since Mike Bugaj reported that WTYD New London, Conn. on 100.9 was on the air, I have been tuning for them, and finally pulled them thru with fairly good signals on 4/17 from 2139 to 2203 EST. Only one verie has come in but that one will have to go as my best of the 1969 season. Little WHOV Hampton, Virginia 88.3 finally returned my prepared card after 4 follow ups for reception of 2/21/69. It all adds up to 10 watts at 130 miles trop; which noses out WHHS Havertown, Pa. hrd. on the same date - 8 watts at 115 miles. Verifications stand at 548 stations from 31 states, 3 Canadian provinces plus Bermuda, P.R. & Cuba.

John Ebeling 9209 Vincent Avenue Bloomington, Minnesota 55431

4/21 There was a real good aurora reception evening. Copy was strong and had less than normal aurora distortion. WEKU 88.9 Richmond, Ky. was almost distortion free for about 5 minutes. This aurora produced all the "normal" reception of stations in the Chicago area and Missouri - these seem to be noted quite regularly during aurora. WEKU was the only new station logged, as I seemed to come in near the end of the reception period. Nothing else to report from here. It has been months since I wrote anything for the column, but it has been dead here. Had a trop opening to Chicago early Sunday, received WMBI-FM 90.1 (tower in Addison), but time came for church so no time for DX. Hope that someone, somewhere has seen the start of a good skip season for FM. There sure have not been any signs around here. (Welcome back RWW)

Bob Cooper 6221 Norman Road Oklahoma City, Oklahoma 73122

We've had some fairly decent CX, but TV has also been hot, so that has kept my attention. I have finally gotten the summer-70 FM antenna array in the air. It consists of four 9 element Channel Master Stereo Probe 9 log periodic yagis in a "box array"; total 36 elements, with center at 57 feet; plus, a vertical 20 element array (2.10 element array), at 52 feet. This is the darndest array I've ever had up. In addition to catching traffic a block away on the expressway, it has fantastic directivity and gain. Local stations are very easy to null out now, and in the first 24 hours it was up I added 26 new FM loggings in the 200-500 mile range under absolutely dead conditions. I have also gotten a second Heath AR-15 tuner unit, so both V and H polarized signals on the same channel can be monitored, or two separate channels at the same time, of course. The motto for the summer is "46 states or die"! (I believe it Bob. You certainly should be the top FM DXer of the year with all the stuff you have going. RWW) DX with the old 18 element array included: 4/16 KWWL 107.9 at 550 miles; 4/22 KFNE 95.3 at 305; KQIP 96.9 at 370; the tropo opening that lasted from AM of the 26th thru AM of the 29th was a dandy, and I could have easily logged 300 FM stations in the 72 hour period if I had spent the time at it I spent on TV. Some of the more interesting catches included: 27th KRVN 93.1 at 340, KROA 103.1 at 375; KWWL 107.9 in solid for 49 straight hours at 550; KRIT 96.9 at 540; Wisconsin 700 mile plus WHA-FM 88.7, WHFI 91.3, WHRM 91.9, Minnesota KROC 680 miles, Fort Campbell, Ky. WABD 107.9 at 575, WFML 106.5, Ohio WDAO 107.7 at 785, Mississippi WKYB 106.7 and WCPC 93.3 and bunches more. 5/2 WKBC-FM N. Wilkesboro, N.C. 97.3 on meters and WJFM also on MS. Now on to the great summer ahead! 73. (Bob, is your old 18 element array for sale?)

Yee editor has a bit to report: 4/26 I finally caught WHMD 91.5 Suring, WI w/Wis. Network ID @1200. WHHI really makes this one tuff. 4/29 WWSH 91.9 Huntington, Indiana @10:30 w/ID, then MoR mx. Nice signal for 940w. WFCJ 93.7 Miamisburg, Ohio finally @10:35 w/bulletin board, ID and local PSA. #3 on 93.7 only. WVUD 99.9 Dayton @10:45 w/ radio 100 in Kettering plus local spots. 5/7 WIAI 99.1 Danville, Ill. new on air w/50kw logged @0810 w/ID following local news. Total here now up to 318. Looks like a good column this month. I have one more report, but will hold off and maybe I'll get another to fill out another stencil. I like these newstencils!!

John Ebeling 9209 Vincent Avenue So. Bloomington, Minnesota 55431

Wrote you last week saying reception so far this year was poor. Since then, two good skip openings occurred on May 9 & 10. I don't remember what your column cutoff date is, but I'll rush this info to you in the hope you can include it this month to make the column current. (John, cutoff is the 10th of the month during busy times. Tnx for the fine support, RWW). By the way, an interesting DX note is that KEW-TV Ch. 2 Mexico City was received about 8:45P CST on May 9. A good slide was noted with call letters clearly visible along with good audio. This was received with TV antenna pointed N/NE. Since I don't actively DX TV, this will not be reported to the TV editors. Hope Bruce Elving in Duluth caught these 2 skip days op in Duluth as well. Would be interesting to see if opening went that far north. 5/9 KSNM 95.5 Santa Fe, NM @7:01P CST; KRST 92.3 Alb querque @7:15 and KDEF 94.1 @7:20 PM. 5/10 4:07P WJGA 92.1 Jackson, Ga. 3kw; 4:10 WJAX 95.1 Jacksonville, Fla.; 4:30 WMTM 93.9 Moultrie, Ga. IDed as Raintree, Ga.; 4:30 WTLD 94.3 Lake City, Fla.; 4:31 WOMA 94.9 Tallahassee, Fla.; 4:35 WFDR 93.3 Manchester, Ga.; 5:05 WCSC 96.9 in Charleston, S.C.; 5:10 WABE 92.1 Fairhope, Ala. 3kw; 5:15 WPEX 94.1 Pensacola, FL; 5:18 WTVY 95.5 Dothan, Alabama; 5:28 WFSU 91.5 Tallahassee; 6:00 WFIA 93.3 Tampa; 6:30 WBVU 95.7 New Orleans, La.; 6:40 WJNS 92.1 Yazoo City, Miss.; 7:00 WFOR 103.7 Hattiesburg, Miss.; 7:13 WPEX 94.1 Pensacola again; 8:17 WQXM 97.9 Clearwater, FL IDed as Tampa Bay; 8:40 WRUF 103.7 Gainesville, Fla.; 9:00 WJAX 95.1 again; also WTIN 95.3 Apopka, Fla and at 9:01 WRLJ 96.9 Jacksonville, Fla. plus others that I was not able to log as no station break was heard. (Maybe someday, just once, I'll log an FM station on Es. Just by looking at the freqs., I could have logged about half of these. John, does Es on FM act like on TV, is very strong for a bit, then down, then back up again, etc? RWW)

Mike Bugaj 197 Boston Road Middletown, Connecticut 06457

IL. WLVA 93.7 (ex WLAE) is now 100% Spanish programming, and now call WCTO 94.3 (or WGSB) now runs a "more good mx" format in stereo. Just noticed WINE 95.1 and WMB 105.1 both in stereo now. On 4/11 from 8:35-9:25PM with antenna pointed NW on 105.3, had weak station in stereo playing pop music (Vikki Carr, Sinatra, etc) with no tx until 9:00 when sports, nx and wx broke in. The station did not ID, but I heard "The temperature in Ottawa is 35 degrees." Then back to mx until 9:25 fade out. The station gave hockey scores. I wonder if this is the mysterious CKDY I heard a couple of months back. 4/17 good trop opening into coastal NJ, Md. and Va. Reported to WRIO 101.7 Cape May and w/v1 received along w/info on station and area. This station operates out of a trailer along the Garden State Parkway. Trop noted again on 4/29-30, to the same area on 4/17, but weaker. Philly stations in solid for the first time this season on 5/1-2 w/WCAU 98.1, WMMR 93.3 and WFIL 102.1 exclnt. No Es noted here yet as of 5/2. And contrary to what was printed in my first report, I am 23 years old...not 25. So much for April DX, 73. (Sorry for the misprint. RWW)

Roger Gravelle 35 Aldborough Avenue St. Thomas, Ontario

Present log totals 173 stations from USA and Canada. USA states Michigan, Ohio, Ind. Pennsylvania, W. Virginia, New York and Florida. 5/10 0015 WTRF 107.5 Wheeling, WVa and at 0030 WKWK 97.3 logged at 230 miles. Also I listen to a new country music station WHYP in Northeast, Pa., but they never give their freq., not even at s/off. (100.9 Rog). They broadcast 3kw vertical and horizontal at 75 miles distant. I have finished my exams now, so maybe I can spend a little more time on TV/FM. (Roger, do you by chance have a copy of Vane Jones Log? It will be a valuable help to you, and I believe a new edition is out or soon to be out. If interested, let me know and I'll give the address to you. RWW)

and check them each morning and each evening. If one or more appear to be UP in level, start looking for other stations further out in the same direction(s). In virtually any type of tropo opening, stations in the 100-250 mile range will improve first, and then longer haul tropo in the same directions will materialize.

As we get past the 20th of June and head into July, watch for slow moving, stagnant front lines that stretch over long distances. These fronts can produce some outstanding DX, and if there is any fog or low cloud banks (scattered over several states) associated with the front (without heavy weather), you will be in for some real DX! Re-read the May TECK NOTES column if you are not clear on these points.

METEORS

Well, the peak of the meteor season is just about here. July and August are the two best meteor months of the year, especially for random early morning meteor work. If you can arrange it, try to hit as many of the random dates listed below in the 5-7 AM time slots.

Dates	Shower Name	Best N/S	Best NW/SE	Best E/W	Best SW/NE
June 2-17	<u>Scorpiids</u>	None	0100	2300-2400	2200
June 4-6	<u>Perseids</u> *	0800-1000 1300-1500	None	None	None
June 8	<u>Arietids</u> *	0600-0800 1100-1300	None	None	None
June 27-30	<u>Pons</u> <u>Winnecke</u>	None	1500-1830	1830-2330	2330-0300
June 30-2 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

The Arietids shower actually begins June 2 and runs through June 14, but the peak is quite sharp, usually on June 8th.

The MAJCR showers are those starred (*); Perseids, Arietids, Taurids. The Aquarids is a pretty decent shower, worth losing sleep over. It follows:

July 26-31	<u>Aquarids</u>	None	0300-0500	0100-0300	0000-0100
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We include it here because it is the lead in to the up-coming August Perseids (more next month.)

Random meteor mornings with higher than average counts for this period are: June 20th (count 31); June 23 (count 40); July 5 (count 26); July 9 (count 32); July 14 (count 35). ALL of these mornings are worth getting up in the 0500-0700 period for, and high band meteors should be worthwhile on the 20th, 23rd, 9th and 14th.

73, Bob Cooper, Jr.

Worldwide TV-FM DX Association

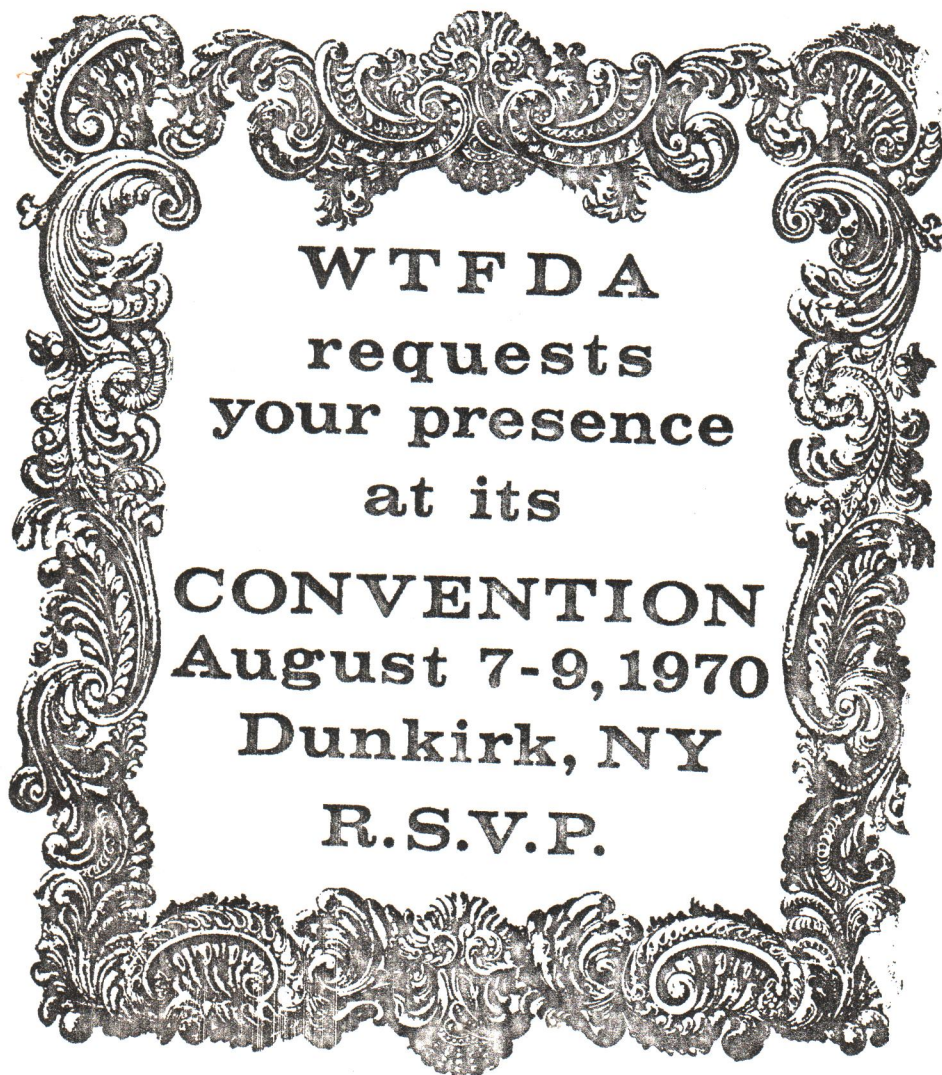
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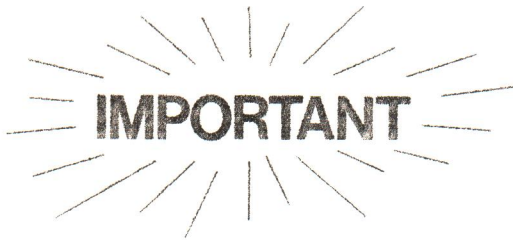
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RENEWALS DUE IN JUNE:	RON AZARKIEWICZ	JOE DUFFIN	JOE GALLAGHER
	HANK HOLBROOK	JIM PIZZI	ROGER GRAVELLE
IN JULY:	BOB ASTMANN	BOB WILLIAMS	E. M. PORTER
	DON EGGERT	KIPP TAYLOR	DAVE FLOWER
	JERRY PULICE	J. P. TAYLOR	BILL RATLIFF
	DAVID SHAPIRO	RINALDO SWAYNE	JOHN ROUSE

STATIONERY IS NOW AVAILABLE FROM HQ AT 2¢ PER SHEET. ALL PROFIT ON SALES GOES TO THE MIMEOGRAPH FUND. (THIS PAGE IS MIMEOGRAPHED ON THE NEW STATIONERY.)

A VOTE ON THE PROPOSED EMBLEM BY BILL HEUSMANN WOULD BE GREATLY APPRECIATED. ALTHO WE ALREADY HAVE 1000 SHEETS OF STATIONERY ON HAND, MINUS ONE ORDER FOR 200 ALREADY RECEIVED FROM DENNIS SMITH, THE SOONER WE SELL OUT THIS STATIONERY, THE SOONER WE GET ANOTHER THOUSAND OR TWO WITH THE EMBLEM IF IT IS ADOPTED. SO VOTE SOON.





WTFDA 1970 CONVENTION REGISTRATION FORM

Please complete and mail as soon as possible and not later than July 30! Please include a SASE for confirmation reply. Robert Seybold Bennett Road Dunkirk, New York

Please reserve a motel room for me, for the following dates: August __, __, __, __ 1970 at the following rate per day: (\$6-\$8, or \$10-\$12) _____. I would be interested in sharing a room with one or more DXers for a possible rate reduction: Yes () No ().

Comments: _____

() Enclosed is \$10 Advance registration fee (per person). () Will pay at convention. (Registration fee includes one dinner, refreshments, and other club convention expenses. If you can provide transportation for other DXers in your area, or along the way, (splitting gas expenses) please explain: _____

If you still need transportation and would be interested in traveling with another DXer (splitting gas expenses), please explain: (We're not guaranteeing a ride, but will make every effort to put you in communication with any DXer in your area that can provide a ride. The sooner you write, the better chance you'll have. If all else fails, there's always Greyhound!) _____

About what time, on what day do you expect to arrive? _____

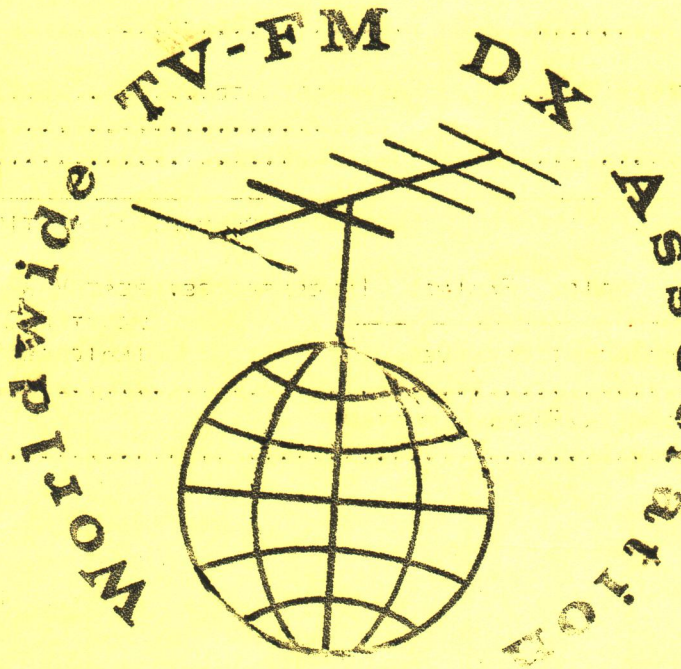
Please check, if you plan to bring any of the following: () DX tape (reel to reel)

() DX tape (compact cassette) () 35 mm slides () 8mm DX movie () Super 8

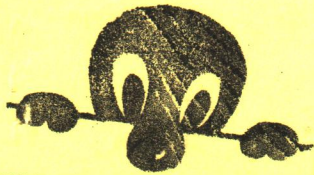
Name _____ Number of Persons included in this reservation _____ Address _____

City _____ State _____ ZIP _____

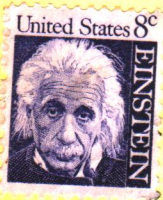
I am primarily interested in: (For program planning) () TV-DX () FM-DX () VHF Radio () Other DX also interested in () TV-DX () FM-DX () VHF Radio () Other DX



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