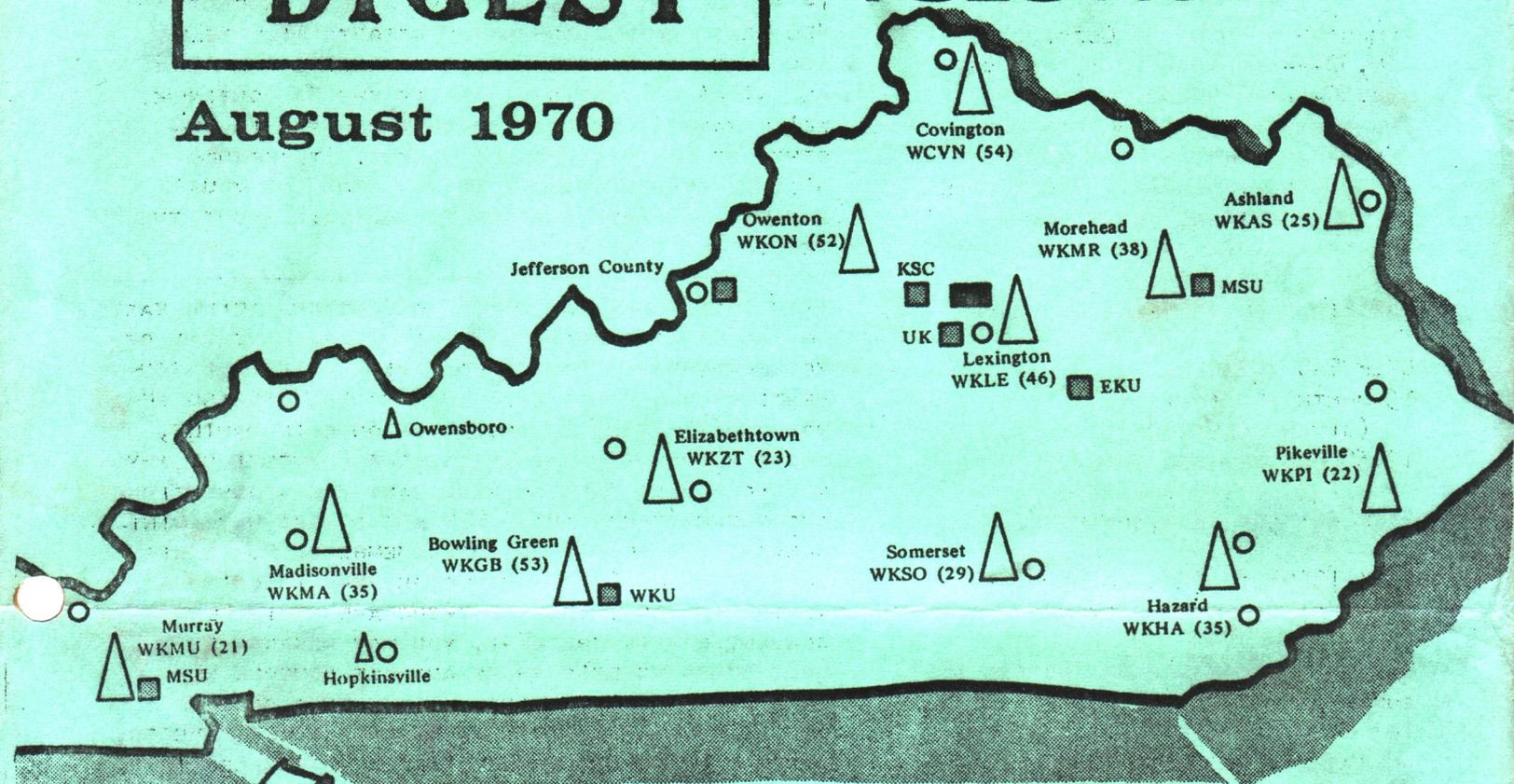


VHF-UHF DIGEST

KENTUCKY educational television

August 1970



- △ TRANSMITTER
- △ TRANSLATOR
- PRODUCTION STUDIO
- NETWORK CENTER
- COMMUNITY COLLEGE

Call Letters	Channel	Location	Tower height	Radiated power
WKAS	25	Ashland	383'	10 KW
WKGB	53	Bowling Green	575'	550KW
WCVN	54	Covington	297'	10 KW
WKZT	23	Elizabethtown	600'	575KW
WKHA	35	Hazard	560'	417KW
WKLE	46	Lexington	805'	525KW
WKMA	35	Madisonville	950'	513KW
WKMR	38	Morehead	560'	562KW
WKMU	21	Murray	600'	575KW
WKON	52	Owenton	560'	550KW
WKPI	22	Pikeville	100'	468KW
WKSO	29	Somerset	948'	378KW

CC]

Bill Heusman, 3116 Sangamon Street
Steger, Illinois, 60475

NOTE- Will be returning to Des Moines around last week
in August; address there not yet known. Until
further notice (like in Sept. VUD) send all mail
to Steger.

Apologies are in order for the missing CCI column, smack in the
middle of the DX season. I'm presently working in a steel mill (yecch)
and have less spare time and energy than I did while in school. Hopefully
the situation is now well in hand. To the reports:

- Joel Rosenberg, 47 Pannahill Rd., Downsview, 475, Ontario EDT
- Sat., May 30 Es, ch. 2 At 1457, received baseball game, San Fransisco vs Pittsburgh, while NBC had Houston vs Mets. KPRC??
 - Mon., June 1 Es, ch. 2 1745, interview show called 'On Camera 2', with a Lt. McCorvy.
 - Thu., June 4 Es, ch. 2 At 2113 slide as at right
 - Wed., June 10 Es, ch. 3 1926, ad for Van Every Ford, Mississippi mentioned (Sounds like WLBT. Can any one confirm?)
 - Tue., June 23 TR ch. 2 0144, ID slide as at right No direction mentioned.
 - Fri., June 28 Es ch. 3 1331, ad for Spur gas, with Fess Parker. 1333, Betsy Drake and Cary Grant in 'Easy Way'. 1346, Clark Bar ad.
 - Sat., July 4 Es ch. 3 1817, sportscast about auto race. Mention of driver in Medical College Hospital of Virginia.
 - " ch. 5 2030, ad for First Federal Bank. Then ID as sketched. NBC
 - Sat., July 11 Es ch. 3 1257 end of 'Underdog' and promo for Porter wagoner, Fridays at 5:00 PM. 1259, ID faded out. 1300, promo for 'Gospel Singing Jubilee' with Al Kennedy. 1301, 'Skippy Kangaroo'. Tentative KACB
 - Thu., July 9 Es ch. 2 1829, The Swedish Scene. ID looked like 'WDON-TV' (WDCN??) Then slide, 'The American Band Goes Symphonic'.

SOMETHING HAPPENED
WE'RE FIXING IT

tv2 EYE WITNESS NEWS
MLM

5

John Lombardo, 23 Grove Terrace, Irvington, NJ, 07111 EDT

Thu., June 11 Es ch. 2 1740, tuned into Misterrogers. At 1800, a Sesame Street promo, fade. 1801, the Friendly Giant came on. 1815, a promo for Paul Harvey Comments and then Dick Davis Stock Report.

Leslie Prus, 1615 Pierre Street, Manhattan, KS, 66502 CDT

Fri., June 5 Es ch. 2 1800-1818, Spanish speaking station, identified(?) as 'TV-TEC' and had a program called 'Les Intoclebas' (The Untouchables). (Suggestions anyone? Can't find anything with 'TEC' call or initials. bh)

Pat Dyer, 327 Solar Drive, San Antonio, TX 78227

Mon., June 8 TR ch. 11 One of Pat's many unIDed XEW-net signals, Mexican. Call 'XHBR-TV' noted on 11 at 0035 CST during XEW net programs. Where is it?? (A call change for XHFI, Chihuahua or XHG, Torreon?? Ch. 11 also allocated to Ciudad Victoria, Tam. New station?)

Bill Bens, 5575 Spruce Wood Dr., Cincinnati, OH 45239 EST

On June 28, from 10:30 to 12:00 EST, Bill had Cuban FM at 90.5 MHz. IDing only as 'Radio Hebelde', he would like more info on it. (They are in Havana, call is CMB24. In his report to the August '68 VUD, Glenn Hauser notes, 'list 250 watts!'. Anyone with any more information? bh)

Bill, your unIDed channel 3 from Canada undoubtedly CKOS-TV, Yorkton, Saskatchewan. Their channels 6, 7 and 8 satellites are in Wynyard, Car-

Frank Merrill, 10673 Saline-Milan Road, Milan, MI 48160 EST
 Sun., May 10 Es KBUY-FM in Fort Worth received, but seemed to be on 94.1 instead of 93.9. Do they have a new frequency? Also heard a KYED on 92.5, of which Frank has no listing. Playing rock oldies (from the fifties) and taking phone calls. Is this Oklahoma City, new call for KXLS?
 Fri., May 29 AURORA 'Hitparade 70' on 92.5 heard at 0340.
 Sat., May 30 Es HLH ad on 94.1 mentioned 175 st ores in the Dallas-Forth Worth area. KBUY again?

Can anyone help Frank with his two, apparent double-hop, unIDs from the Caribbean area? Both on channel 3, received on Sunday, May 31. Station #1- English speaker, first noticed around 1515 EST, lost around 1600. Was a movie, and while they were in there were apparently no station breaks nor commercials. Antenna was pointed south-east. Apparently not the mainland because the QRM was different than U.S. or Canadian stations, and definitely from the SE. Did not appear to be educational, so doubt WIPM, Puerto Rico.

Station #2- French, or German-ish language, definitely not Canada, definitely from the south-east. First faded in 1659 EST, stayed in just past 1800 and reappeared briefly at 1851. Move in progress the whole while until past 1800, and apparently this station never broke for any kind of announcements at all.

For station #1, Frank suspects CBC-TV, Barbados, or the new ZVI-TV, British Virgin Islands, which may or may not yet be on the air. Station #2 may be a new ORTF outlet, IN THE WEST INDIES, OR A CREOLE DIALECT, OR DUTCH?

Frank would also like to know which channel 3 station to the east of him runs a wedge test pattern, starting as early as 0520 and signing on at 0630. Often seen by MS, it really has him bugged.

Sun., May 10 Es ch. 4 2227, a station from the SSW or SW, same offset as WWJ-TV, hence zero. Sports announcer's name was LON MEEKER.

A really big bunch of mysteries this month. Lets hope we can solve at least a few more than have been IDed so far!

73, Bill

OVERSEAS NOTES

THERE WERE A FEW SPELLING MISTAKES IN THE EUROPEAN SCENE LAST MONTH WHICH WE WOULD LIKE TO CORRECT:

BRT: BELGISCHE RADIO ETC. ALSO FOR BELGIUM ADD RTB FOR THE FRENCH NETWORK: RADIODIFFUSION-TELEVISION BELGE.

TVP: TELEWIZIJA POLSKA IS AN ALTERNATIVE, BUT CURRENTLY POLSKIE RADIO TELEWIZJA IS LISTED IN MY WRTVH.

MT: MAGYAR TELEVIZIO.

JRT: JUGOSLOVENSKA RADIOTELEWIZIJA. THESE ARE FROM AN OLDER EBU LIST.

JUST HEARD A REPORT OF A COUPLE PIRATE BROADCASTERS IN ENGLAND ARRESTED FOR DEFACING PUBLIC PROPERTY. THEY WERE SMEARING JAM ON A BBC BUILDING WHEN ARRESTED, AND EXPLAINED THAT THE BBC JAMMED THEM SO THEY WERE "JAMMING " THE BBC! (THE REFERENCE WAS TO THE JAMMING OF PIRATE RADIO STATIONS BY THE BBC TO FORCE THEM OFF THE AIR A COUPLE MONTHS BACK. THIS BROUGHT UP SOME PUBLIC OUTORIES COMPARING THE BBC WITH SOME OTHER WORLD BROADCASTERS WHO RESORT TO JAMMING TO PREVENT OUTSIDE PROGRAMS FROM BEING HEARD LOCALLY.)

GLEN HUASER REPORTS RECEIVING TV FROM THE PHILIPPINES AS WELL AS THAILAND NOW SO HE HAS 2 TV COUNTRIES IN HIS LOG FROM THAILAND. FM APPEARS TO BE BETTER, HOWEVER.

FCC FM NEWS

Charles A. Dobbins
12851 Longacre
Detroit, Michigan 48227

FCC COMPLETED ACTIONS (FINAL ACTIONS)

Aquidilla, FR. 92.9 , 5.9 kw. , Ricardo Vega , AAT -205 ft.
Barnstable, Mass. 99.9 , 50 kw. , Cape Cod Broadcasting Inc. , AAT 265 ft.
Falmouth, Mass. 101.9 , 50 kw. , Cape and Island Broadcasting Inc. , AAT 238 ft.
Falmouth, Mass. 95.9 , 3 kw. , Falmouth Broadcasting Co. , AAT 186.1 ft.
La Grange, TX. 104.9 , 3 kw. , Lloyd E. Kolbe , AAT 203 ft.
Ludington, Mi. , 100.0 , 3 kw. , Raymond A. Plank , AAT 155 ft.
Minocqua, Wi. 95.9 , 2 kw. , Bruce John Micek , AAT 300 ft.
Mobile, Al. 97.5 , 55.4 kw. , Bellaire Inc. , AAT 240 ft.
Tucson, AZ. 93.7 , 28.4 kw. , Radio Fiesta Inc. , AAT -39 ft.

AUTHORIZED STARTS

WACG-FM Augusta, Ga. , 90.7 , 6.1 kw. , AAT 400 ft.
*KWMR(FM) Cedar Rapids, Ia. 88.9 , TPO 10 w.
*KREM(FM) Pendleton, Or. 90.9 , TPO 10 w.
KPIP(FM) Roseville, Ca. 93.5 , 3 kw. , AAT 130 ft.

CALL LETTER APPLICATIONS

KERN-FM Reliable Broadcasting Bakersfield, Ca. req KLYD-FM
WAEB-FM Rustcom Industries Inc. , Allentown, Pa. req WXXW(FM)
Fine Arts Broadcasting Inc. Charleston, SC. req WEZL(FM)
Culpepper Broadcasting Corp. Culpepper, Va. req WCUL(FM)
University of Denver Denver, Co. req *KCFR(FM)
KINS-FM Eureka Broadcasting Inc. Eureka, Ca. req KFMI(FM)
WHAG-FM Regional Broadcasting Co. Halfway, Md. req WQCM(FM)
Hendersonville Broadcasting Corp. Hendersonville, Tn. req WHVT(FM)
Progressive Broadcasting Co. Lawton, Ok. req KCCO-FM
Mission East Co. Miami, Fl. req WIGL-FM
KGEC(FM) , KDES Inc. Palm Springs, Ca. req KDES-FM
Mountain State Broadcasting Co. Princeton, WV. req WHGC(FM)
Southern Colorado State College Pueblo, Co. req *KTSC-FM
W.R.R. Inc. Roseburg, Or. req KRSB(FM)
KNDX(FM) Marinar Broadcasting Co. Yakima, Wn req KYGM(FM)

CALL LETTER ACTIONS

Catherine J. Porter, Bath, Me., gtd WJTO-FM
Broken Arrow Broadcasting Co., Broken Arrow, Ok. gtd KBLN(FM)
WBNY-FM Niagara Frontier Broadcasting Corp., Buffalo, NY. gtd WBNY(FM)
WWJC-FM The Titanic Corp., Duluth, Mn. gtd WGGR(FM)
Wayside Broadcasting Corp., Front Royal, Va. gtd WFFV(FM)
Wisconsin State University, La Crosse, Wi. gtd *WLSU(FM)
Polk County Broadcasting Co., Livingston, Tx. gtd KETX-FM
Progressive Broadcasting Co. , Lawton, Ok. gtd KCCO-FM
WRVC(FM) Brinsfield Broadcasting Co., Norfolk, Va. gtd WOWI-FM
WSTP-FM WSTP Inc. Salisbury, NC. gtd WRDX(FM)
WITA-FM Pueblo Broadcasting Inc. San Juan, PR. gtd WJIT-FM
*KPLU(FM) Pacific Lutheran University Tacoma, Wn. gtd *KPLU-FM
Graham Broadcasting Co., Tucson, Az. gtd KAYN(FM)
Seaborn Rudolph Hubbard, Vero Beach, Fl. gtd WGYL(FM)
WTTM-FM Westport Broadcasting Co. , Westport, Cn. gtd WDJF(FM)

APPLICATIONS APPLIED FOR OR GRANTED

*Decatur, Ill. Millikin University seeks 89.9 , 10 w. AAT 95 ft.
Douglas, Ga. Coffee County Broadcasters Inc. seeks 106.7 , 34.2 kw. AAT 267 ft.
Fredericksburg, Tx. Gillespie Broadcasting Co. seeks 101.1 , 100 kw. AAT 652 ft.
Hot Springs, Ak. Christian Broadcasting Co. gtd 106.3 , .457 kw. AAT 670 ft.
Louisville, Ga. Peach Broadcasting Co. seeks 92.1 , 3 kw. AAT 201 ft.
Rockmart, Ga. Georgia Radio Inc. gtd 107.1 , 3 kw. AAT -20 ft.
Thomson, Ga. Bethany Broadcasting Co. seeks 101.7 , 3 kw. , AAT 300 ft.
Wilmington, Oh. Clinton County Broadcasting Corp. seeks 102.3 , 3 kw. AAT 300 ft.

CHANGES TO EXISTING STATIONS

WFMF(FM) Chicago, Ill. chge xmtr location, ant system, ant hgt 1150 ft. ERP to 6.2 Kw.
WGMU-FM Granite City, Ill. install new ant. , ant. hgt. 500 ft.

WAYL(FM) Minneapolis,Mn. new FM ERP 100 kw. , ant. hgt. 490 ft.
 WSJC-FM Magee, Miss. new FM ERP 100 kw. , ant. hgt. 420 ft.
 WEKT(FM) Hammondsport, NY. chge ant. and xmtr location , new ant. hgt. 98 ft.
 WAKR-FM Akron, Oh. new xmtr and ant. , ERP 50 kw. ant. hgt. ; 500 ft.
 KOCN(FM) Pacific Grove, Ca. chge type ant. ant. hgt. 70 ft.
 WBCN(FM) Boston, Ma. chge type ant. , ant. hgt. 570.94 ft.
 WCCO-FM Minneapolis, Mn. inc pwr to ERP 100 kw. inc ant. hgt. to 1150 ft.
 WOKK-FM Meridan, Miss. install new xmtr and ant. , ERP 100 kw. ant. hgt. 185 ft.
 WLBG-FM Laurens, SC. chge vert. and horiz. powers to 99.4 kw.
 KBIG-FM Los Angeles, Ca. new ant. system, vert. polar. to ERP of 105 kw.
 WPEBF(FM) West Palm Beach, Fl. new ant. and xmtr ERP 54 kw. ant. hgt. 155 ft.
 KFOA(FM) Honolulu, Ha. ERP to 60 kw. ant. hgt. to -140 ft.
 *WVSH(FM) Huntington, Ind. ERP to 920 w. ant. hgt. to 110 ft.
 KCRE-FM Springfield-Eugene, Or. ERP to 13.5 kw. ant. hgt. to 90 ft.
 WMIL-FM Milwaukee, Wi. chge type of xmtr and ant. ant. hgt. to 350 ft.
 KMEO-FM Phoenix, Az. ERP to 100 kw. ant. hgt. to 1560 ft.
 KWFM(FM) Tucson, Az. ERP to 28 kw. ant. hgt. to 86 ft.
 KBHS-FM Hot Springs, Ak. ant. hgt. to 320 ft. ERP to 2.6 kw.
 KKOP(FM) Redondo Beach, Ca. ERP to 3 kw. ant. hgt. to 175 ft.
 KSPN(FM) Aspen, Co. ERP 480 w. ant. hgt. to -1790 ft.
 WLTA-FM Atlanta, Ga. ERP to 100 kw. ant. hgt. to 100 ft.
 WMAQ-FM Chicago, Ill. ERP 6 kw. ant. hgt. to 1170 ft.
 WYCA(FM) Hammond, Ind. new aux. xmtr with ERP 30 kw. ant. hgt. 400 ft.
 *WELT(FM) South Bend, Ind. ERP 1.3 kw. ant. hgt. 105 ft.
 WCAO-FM Baltimore, Md. ERP 50 kw. ant. hgt. 400 ft.
 WILT-FM Lansing, Mi. ERP to 55 kw. ant. hgt. to 165 ft.
 WBIL(FM) Biloxi, Miss. operation on 93.7 mhz. ERP 100 kw. ant. hgt. 270 ft. gtd.
 WOXR(FM) Oxford, Oh. ERP 3 kw. ant. hgt. 255 ft.
 KIRO-FM Seattle, Wn. ERP 100 kw. ant. hgt. 740 ft.
 WSPT-FM Stevens Point, Wi. chge type ant. ant. hgt to 340 ft. ERP 50 kw.

My thanks to Richard Clark for the following data rec'd via hdqts.

WMUN Palm Beach, Fl. on 97.9 with Underground Music (ex. WWOS)
 WRBD Pompano Beach, Fl. on 102.7 is a new station and operating 24 hrs. a day
 WHRS Boynton Beach, Fl. new station in E.E. and S.S.
 ZNS Nassau, Bahamas on 107.1 is a new station NSP and dup. of the 1540 Khz. outlet

10 Years ago in the AIPA

THE AIPA MONTHLY BULLETIN NEVER REACHED THE SIZE OF OUR AVERAGE WTFDA MONTHLY, AND MOST WILL AGREE THAT THE AIPA NEVER HAD THE QUALITY OF INFORMATION EITHER, BUT FOR US OMs IN THE HOBBY THERE IS QUITE A BIT OF NOSTALGIA WHEN THE AIPA IS MENTIONED. THE AUGUST, 1960 ISSUE WAS DEVOTED IN GREAT PART TO RAMBLINGS ABOUT THE RECENTLY COMPLETED SIXTH ANNUAL AIPA CONVENTION AT WHICH 30 MEMBERS WERE PRESENT. PLANS FOR THE WESTERN CONVENTION WERE ALSO IN THEIR FINAL STAGES HOSTED BY CHARLES WOOD IN ASHLAND, OREGON. THE BIG CONVENTION WAS IN CHICAGO HOSTED BY JOHN OPYD (WTFDA MEMBER) AND THE LATE TOM HIDLEY. IT WAS THE FIRST CONVENTION I EVER ATTENDED SO IT IS ONE OF MY FONDEST MEMORIES OF THE AIPA DAYS. THE SEVENTEEN PAGE BULLETIN (THATS RIGHT, 17) CONTAINED OVERALL ABOUT 6 PAGES OF DX, DIVIDED AMONG THE EASTERN WESTERN, SOUTHERN AND MS-TV COLUMNS, AND THE FM COLUMN. BILL DRAEB NOTED THAT HE HAD NOW RECEIVED 250 STATIONS, AND ALTHO NOT NOTED, BOB SEYBOLD WAS WAY UP THERE, TOO. BOTH ARE OVER 400 NOW IN 1970, SO THE 10 YEARS HAVE BEEN GOOD. IN THE FM COLUMN, (ALL ONE PAGE OF IT), FERDINAND DOMBROWSKI HAD UPPED HIS LOG TO 29-- AND HAS DOUBLED IT IN THE LAST 10 YEARS SO THE 60s WERE ALSO GOOD TO THIS DXER! (HI.)

IN THE WESTERN TV COLUMN WE READ: "DENNIS SMITH WRITES THAT HE SURE AGREES WITH ME (EDITOR DORIS JOHNSON) THAT THIS HAS BEEN A TERRIBLE YEAR FOR DX. HE HAS LOGGED ONLY ONE NEW STATION THIS SUMMER BRINGING HIS TOTAL UP TO 98, (THINK YOU'LL EVER MAKE 100?)" TOO LATE TO MAKE HER OWN COLUMN, DORIS ON 30 JULY HAD RECEIVED XEWO-2 IN GUADALAJARA, MEXICO AT 2500 MILES! SHE GOT A TAPE AND 4 GOOD PHOTOS OF IT, TOO!

DX MAILBAG

The August edition of your mailbag finds a parade of newcomers to our select group. A hearty welcome goes out to:

William J. Farmer, 1827 Cleophus, Lincoln Park, Mich. 48146

Robert Zoller, 812 S. Donna, Westland, Mich. 48185

Allen Rockford, 505 Seeley Rd., Syracuse, N.Y. 13224

Don Richardson, 120 Herman Dr., North Syracuse, NY 13212

David P. Dunn, 81 Florence Rd., Apt. 2A, Branford, Conn. 06405 (2 yr.)

Richard C. Evans, Box 1988, Gary, Ind., 46409

Mike Pawlowski, 18437 Wildwood Ave., Lansing, Ill. 60438

John Tull, 13 Clarence St., St. James, Port of Spain,
Trinidad, West Indies

A.H. Ellis, 19 McClure Ave., Brantford, Ontario, Canada

Russ Brown, 4100 Lake Shore Dr., St. Joseph, Mich. 49085

Steve Howard, 3925 Chickamauga Ave., Chattanooga, Tenn. 37406

Turning to other matters of interest, we recently heard Bedford Brown (ace meteorologist and former ace DXer) had charted a course for his new home in Puerto Rico. He can be contacted c/o ESSA, U.S. Weather Bureau, Isla Verde International Airport, San Juan, Puerto Rico. (I already hear those señoritas shouting "Yankee, Go Home" - hi!)

J.J. Rosenberg passes along the following this month: "I wrote the University of Saskatchewan for information on the ionosphere: this may be of interest to all the DXers so pass it on..." Their answer "The ionization is caused by two sources: (1) bombardment by a stream of particles from the solar corona called the Solar Wind (remember Apollo 11 investigated that on the lunar surface). The particles get trapped in the earth's magnetic field and are precipitated down to the two aurora regions. (2) Photo-ionization or ultra-violet radiation from the sun (at sunrise) breaks neutral atoms and molecules into ions. Ionization gets higher during the day. There are cloudlike particles which drift due to winds in the E-layer and electric fields in the F-layer. The formation of ion clouds cannot yet be predicted although relative conditions can be associated to solar activity e.g. sun spots."

Al Ellis who calls his location "60 miles due north of Erie, Pa." notes "Having just purchased ..." World Radio-TV Handbook (I paid ...\$7.30 for it. This is no skin off your nose but mine does feel a bit raw. They do advertise it as being complete with all stations including FM. How wrong they are". (Indeed Al -- if there are any others out there thinking WRTVH will give you a complete FM station list we warn you this is not the case. Your best bet is probably the Jones log - 6th edition is now available from Vane A. Jones Co., 6710 Hampton Dr. E., Indianapolis, Ind., 46226 for \$2.95.

Don Richardson is another of the growing clan of New Yorkers in WTFDA. Don is 27 years old and has been interested in DX since 1951 - although he has sincerely pursued the hobby actively only since 1965. A staff accountant in a CPA firm, Don also is fond of stamp collecting and collecting old time radio shows on tape (try Buddy Black, WNMP 1590 in Chicago area Don - they may be interested in trading with you!).

Cheery words come from the sun and fun part of Florida. Dick Clark sends greetings from Ft. Lauderdale and says "Thanks to Bob Cooper I am working on my UHF set-up and I should have it done by the first of July (hope you made deadline Dick!). This will be the custom built UHF converter and two seven foot parabolics on a 40-foot mast. I just can't wait to see how much DX I will get" (We'll be watching the reporting columns for some fantastic reception Dick!) 73's *John Denton*

PART III
LIMITATIONS, CALIBRATION, AND USES FOR THE S-METER

In part II, I described different methods of monitoring TV signal strength, different signal strength meters, and advantages of signal strength indication for the DXer. You were told how to locate the AGC line on the receiver (RX) for indirect signal indication and how to determine if your voltmeter is usable. This month, the limitations, calibration, and uses of construction-type S-meters, VOM's, and VTVM's attached to the TV AGC line will be described. The "uses" portion of this article applies also to FM DXers.

LIMITATIONS

The common dual-polarity TV AGC voltage mentioned in part II is a small nuisance rather than a limitation. If switching from + to - on the meter is cumbersome, you can simply re-zero your meter so that voltage swing is entirely negative. That is, simply select the d-c meter scale you need, obtain a completely blank channel, and reset the zero adjust for 0 volts. Now, meter deflection will increase negatively as signal strength increases. If you constantly change meter scales, you must re-zero, of course.

I don't re-zero since switching polarity is no problem. However, I do check occasionally that the needle points to zero when disconnected from the AGC line. If you record daily signal strengths, this is important, especially if your meter drifts or you use it often for testing.

If your RX allows you to change AGC voltage (local/distance switch, etc.), and you wish to record daily signal strengths be sure your AGC control is set in the same position. Usually the "distant" position is used, obviously.

I have not discussed the so-called speed of the AGC action. Some RX's have "fast" AGC where a sudden change in signal input produces fast AGC action. Some RX's are "slower". Both can be helpful for certain forms of reception. Although I never calculated time constants of various AGC circuits -- fast and slow -- I don't think these differences will affect your signal indication.

CALIBRATION

AGC voltage in itself does not indicate how many microvolts are at the tuner input. However, you possibly can calibrate your meter to tell relative differences (twice, 50%, four times, 25%, etc.). And if you're lucky, you may be able to translate AGC voltage into an equivalent microvolt reading.

FSM Method-

If you can borrow a professional FSM, you're in. Simply note FSM reading and AGC voltage for several values from rock solid to weak signals. Draw a chart or curve from the readings. The more readings the better, naturally.

NOTE: It's tricky calibrating a meter when signal input is unsteady, but these values are of prime interest because much of your weak, distant tropo will produce signal levels of this type.

If you're familiar with test equipment, you may be able to feed a known signal level into the TV from a rf generator for calibration.

Chart Method-

Some TV manufacturers may have curves that plot tuner and IF amplifier AGC voltage versus input signal in microvolts. I've seen a few of these curves, but frankly don't know if you could obtain one for your particular RX.

Attenuator Method-

This method does not give you actual microvolts, but it is effective for determining relative indication. If you can obtain a variable attenuator, you can select several signal levels and note what AGC voltage becomes when the attenuator is added. Since this is the most likely calibration method, let's go through a "for instance",

Assume you have an attenuator (or individual pads) so you can get 3, 6, 12, and 20 db of attenuation.

- 1) Select a strong, stable signal. Assume the resultant AGC voltage is -2.6.
- 2) Add 3 db attenuator and note AGC voltage. Assume it decreases to -2.4 volts.

- 3) Repeat by adding other steps of attenuation.
- 4) With no attenuation, select a new value by rotating antenna, changing channels, etc. and repeat. Repeat as often as necessary until several readings are obtained for weak and strong stations.

Assume that the result is a table as shown below.

<u>db Att.</u>									
0	2.6	3.0	3.4	4.6	3.5	4.5	.35	0	
3	2.4	2.8	3.2	4.3	3.2	4.2	.3	+1	
6	2.2	2.6	2.9	4.0	3.0	3.8	.25	+2	
12	1.8	2.3	2.5	3.4	2.6	3.3	.1	+5	
20	1.0	1.7	1.9	2.7	2.0	2.7	+2	+8	

All voltages - unless noted otherwise.

Now, when you note a signal change, you can approximate the difference. For example, if signal level is normally +0.2 volts but increases to 0, you have seen a 6 db change, or 100% increase. If signal strength increases from -1.0 to -2.5, you fudge a little and determine that increase was between 17 and 20 db from column one. (For those who missed previous articles on dbs, a 3 db increase means 50% more signal, 6 db is 100% more, 20 db 10 times more. Conversely, 20 db loss is 1/10 of signal left, etc.

Even if you can't calibrate your meter as explained, the meter is well worthwhile as you'll see in the next part.

USES

OK, you've got the meter, calibrated or not, and you're ready.

Traps-

You'll get the most out of Jerrold or CM traps or just T-line traps with the meter. True, you relate the trapped channel to numbered dials on the CM, but this isn't enough. Jerrold types require some fishing. I've missed many an ID because I was too lazy to recheck and reset the traps for maximum attenuation. You can't necessarily set and forget these traps. They must be checked often as TV oscillator drift due to heat or voltage variation is common. Sometimes vibration causes trap misadjustment, especially with Jerrold types.

When trapping the video carrier, always set trap by tuning on the channel you want trapped. That is, select channel to be trapped and tune for maximum attenuation. Tuning by watching the tube isn't that accurate, unless you can completely eliminate the local. Trying to tune out my local channel 4 while monitoring a channel 3 skipper that is changing signal level constantly is impossible. Of course, if you have no meter, you must tune on the adjacent channel since it's hard determining just where maximum attenuation is on the local channel. (Much of this might seem strange to you lucky DXers who live in DX paradises, that is, areas with no local VHF stations within 20 miles. But trapping or filtering is really necessary if you want a good station total but are located in a metropolitan area. It's bad enough that you can't (usually) get DX through a local 10 miles away, but losing the adjacent channels also is ridiculous.)

Antennas-

Due to the wide beamwidths of most antennas, the meter seldom helps in aiming an antenna. You can see the results on the tube. However, I have found the meter helpful when aiming the 7 ft. UHF dish because of its sharp beamwidth and because of the poor 10° movements of my U100 Alliance rotor. Sometimes the station peaks between notches.

Polar plots of antennas can be made using the meter. From this you can compute front-to-back-ratio, front-to-side-ratio, directivity, etc. You might even have some fun by checking how close actual gain (versus a reference dipole), F/B ratio, etc. are compared to the claims. If antenna specs are received, they often give the "best-case" rather than the "worse-case" condition. Thus an all-channel antenna with claimed F/B ratio of 25:1 might well have 25:1 rating on channel 10, for example, but on channel 2 or 13 it might be 1:1.

Others-

Obviously, preamp gain can be seen by reading AGC voltage with and without the preamp connected (I mean disconnect the preamp, don't just turn it off!).

Sophisticated gear such as the Interdigital Preamplifiers (IPAs) can be tuned for maximum gain and filtering by using the meter. Rapid knob rotation to calibrated channels will get you in the ball park, but the meter will allow optimum results. Sometimes, the desired weak signal is between two very strong channels. In this case, it might not be advantageous to use the meter since off-tuning slightly will cause sufficient adjacent channel slop and, therefore, meter indication.

Insertion loss of converters, traps, 72 or 300 ohm connectors, etc. can be detected with the meter. However, unless your meter is calibrated to detect small changes (5 to 20%) all you can do is approximate the loss. Often VHF loss going through a converter is 2 to 3% on some channels, as high as 25% on others.

FOR FMERS

The uses portion applies to FM DXers also. In fact, AGC voltage through an amplifying network is used to drive most S-meters on FM receivers. I haven't emphasized external meters for FMers because almost all receivers have S-meters.

Do not confuse the tune meter with S-meter. Some so-called high quality receivers have offered tune meters only. Truly excellent receivers (Heath AR-15, etc.) offer both. You need both, the tune-meter for exact tuning on strong local signals that pin the S-meter (non-DXing) and S-meter for DXing.

S-meters on FM receivers probably follow the ham philopshy, where number or dots indicate 6 db changes (100%), except at the ends. That is, between 0 and first dot (or number) and between last number and the upper end, change is greater and is usually exponential. Above the last major mark, you usually refer to so many S units above S9.

Unfortunately, built in S-meters often suffer either because you can't tell changes in weak signals adequately (the needle barely moves) or because needle pins at maximum with only a mildly strong signal. In the latter case, you can always add an attenuator, of course, just to get signal indication within limits of the S-meter.

You can calibrate you meter against a FSM also. To compare the readings of two "identical" receivers is tricky, however. Component tolerance, especially because of the unpredictable transistor characteristics, might produce a big S-meter reading difference even if received signal is identical.

Use of an S-meter for TV or FM can only add, at least a little, to the DXers totals or pleasure. Everyone who has a usable VOM or VTVM should give it a try and judge its use.

73's

Dave.

VHF RADIO

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

AUGUST 1970

Deadline time has passed again, and I've received one lone list of DX. I hope that my rather large list each month isn't acting to discourage members from sending in smaller reports. It's meant to show how much DX there is available for you to try for. Later in the column appears a chart that will enable one to get a fair idea of the MUF based on skip distances for the pagers with Es. I hope to lure some of the TV and FM DXers into using the pagers as I do for MUF indications. Maybe I'll get a few more reports.

Ferdinand Dombrowski, 1311 West Madison, Apt. 11, Milwaukee, WI 53204 was busy again with his Allied A-2589 and TV conical aimed to the south. CDST used.

<u>Jun 28:</u> 1300, KAF 245 Oklahoma City KIY 508 1345, KIF 653	<u>Jul 4:</u> 1455, KIY 508 1845, Oklahoma City
<u>Jun 29:</u> 0025, KSC 644 0115, Oklahoma City	<u>Jul 6:</u> 1730, Wilkes-Barre Scranton KGC 223 (43 MHz) 1750, KGA 804 (new)
<u>Jul 4:</u> 1400, KGC 223	

Now, my loggings. Allied A-2586 with built-in whip and 30 feet of indoor random wire. All Es, 50-MHz deleted. F2 noted. CST used.

<u>Jun 26:</u> 1750, KFJ 891	<u>Jul 1:</u> 2155, KSC 645
<u>Jun 27:</u> 1030, KIY 508 1450, KDN 492 KSC 645 KAD 931 1720, Mexico City	2325, KME 438 (new) KMA 829 2330, Long Beach
<u>Jun 28:</u> 0640, KSC 645 0750, KIF 653 2055, Long Beach 2210, KAF 245	<u>Jul 2:</u> 1155, KSC 645 1235, KMD 342 1240, KIM 905 1250, KIF 650 1305, KIG 300 1400, Long Beach 1450, KIY 508 1615, KMA 829 1725, Mexico City
<u>Jun 29:</u> 0010, KSC 645 0820, KQC 881 0900, KIY 508 KSC 644 0945, KIG 300 1500, WWA 335 (F2)	<u>Jul 3:</u> 0940, KIF 653 Long Beach 1010, KIY 508 1015, KSC 645 1035, KSC 644 1040, KIG 300 1050, KIE 367 1250, KOE 257 1345, KDN 492
<u>Jun 30:</u> 1815, KSC 645 1845, KIM 905 1920, KIY 508	<u>Jul 4:</u> 1505, KIY 508 1725, KIM 905
<u>Jul 1:</u> 1205, KIF 650 1210, KIG 300 1220, KIE 367 1235, KIY 508 1345, KOE 257	

Jul 4: 1835, KSC 645
Jul 5: 0725, KIY 508
 0730, Mexico City
 1105, KAQ 606
 1155, KIF 650
 1245, KIE 367
 1410, KSC 645
 KIF 653
 1455, Oklahoma City
 1545, KAD 931
 1620, KAF 245
Jul 6: 1535, KSC 645
 1545, KMA 829
 1615, KQD 392 (new)
 1630, Long Beach
 1700, KIF 650
 1800, KIY 508
 1825, KDN 492
 2000, KAD 931
 2010, KIN 645
Jul 7: 1535, KDN 492
 1720, KIY 508
 1730, KOE 257
 1745, KSC 645
 1805, KQC 881
 1845, KSC 644
Jul 8: 0525, KIY 508
 0530, KIY 757
 0735, KIN 645
 0740, KFL 943 (new)
 0750, KIF 650
 KIE 367
 0840, KOE 257
 1225, KIQ 999
 1550, KSC 645
 1555, KAD 931
 1833, KRC 975 (new)
 1850, KIM 905
 2005, KAF 245
 2010, Oklahoma City
Jul 9: 0935, KSC 645
 1105, KIF 650
 1140, KDN 492
 1200, KAD 931
 KIY 508
 KIE 367
 1300, KIF 653
 1405, Long Beach
 1410, KMA 829
 KIN 645
 2225, KIM 905
Jl 10: 0010, KSC 645
 0035, Long Beach
Jl 11: 1030, KAD 931
 KSC 645

Jul 11: 1030, KAF 245
 1235, KAI 927
Jul 12: 1720, KIY 508
Jul 13: 1210, KIG 844
 1335, KIM 905
 1350, KIF 650
 1405, KIG 300
 1425, KIY 508
 1435, KIE 953
 1555, KIQ 999
 1625, KIN 645
 1830, KIE 367
Jul 14: 1145, Mexico City
 1525, KAI 927
 Long Beach
 1920, KIY 508
Jul 15: 1145, KIY 508
 1210, KIM 905
 1235, KAI 927
 1320, Long Beach
 KIF 650
 1750, KAQ 611 (new)
 1820, KDN 492
 2015, KAD 931
 2035, Oklahoma City
 2148, KFL 936
 2220, KOE 257
Jul 16: 0005, KSC 645
 0755, KIY 508
 KAD 931
 1105, KQC 881
 1115, KIF 650
 1120, KIG 300
 1450, Mexico City
 KIE 367
 1615, KIF 653
 1640, Oklahoma City
 KOE 257
 1845, KFL 936
Jul 17: 0625, KIY 508
 0835, KSC 644
 0845, KSC 645
 0910, KIF 653
 1100, KIF 650
 1715, Mexico City
 1800, WWA 335 (F2)
 2030, KUA 217 (F2)
Jul 18: 0110, Long Beach
 0850, KIM 905
 1045, KIY 508
 1125, KSC 645
 1700, KQC 881
 1750, KQD 607 (new)
 KIF 650
 1815, Oklahoma City

Jul 18: 2350, KFL 936
 Jul 19: 0540, KFL 936
 0955, KIF 650
 1000, KIY 508
 1025, Mexico City

Jul 19: 1040, KIQ 999
 1110, Long Beach
 KSC 645
 1220, KAD 931

KAD 931	35.58	Kansas City, MO	KIY 757	35.22	Montgomery, AL
KAF 245	43.58	"	KMA 829	35.58	California
KAQ 606	35.58	Denver, CO	KMD 342	35.22	Fresno, CA
KGA 804	43.58	Philadelphia, PA	KME 438	35.22	California
KGC 223	35.22	"	KOE 257	43.58	Phoenix, AZ
	43.22	"	KQC 881	43.58	Cleveland, OH
KIE 367	43.58	Miami, FL	KSC 644	43.58	Chicago, IL
KIE 953	35.58	Atlanta, GA	KSC 645	35.58	"
KIF 650	35.58	Birmingham, AL	KUA 217	35.58	Honolulu, HA
KIF 653	43.58	Memphis, TN	WWA 335	35.22	San Juan, PR
KIG 300	43.58	Atlanta, GA	-	35.58	Long Beach, CA
KIG 844	35.58	Augusta, GA	-	43.57	Mexico City
KIM 905	35.22	Charlotte, NC	-	35.58	Oklahoma City
KIN 645	35.22	Miami, FL	-	35.58	Scranton, PA
KIY 508	35.22	Orlando, FL	-	35.22	Wilkes-Barre, PA

KAI 927, KAQ 611, KDN 492, KFL 936, KIN 645, KIQ 999, KMA 829, KME 438, KQD 392, and KQD 607 all ID by Morse code tone (A2).
 KFL 943 and KRC 975 are not pagers but are close to 35 MHz.

In 1967 at the U. of Texas at Austin I devised and had run some simple computer programs on a CDC 6600 dealing with Es MUF and skip distances. Non-tilted Es at 105 km gave the following results.

miles	35.22	35.58	43.22	43.58	60.0	100
1400	35.22	35.58	43.22	43.58	60.0	100
1300	35.36	35.72	43.39	43.75	60.2	100.4
1200	35.75	36.11	43.87	44.23	60.9	101.5
1100	36.38	36.75	44.65	45.02	62.0	103.3
1000	37.40	37.79	45.90	46.28	63.7	106.2
900	38.92	39.32	47.76	48.16	66.3	110.5
800	41.07	41.49	50.39	50.81	70.0	116.6
700	44.12	44.62	54.12	54.65	75.2	125.4
600	48.60	49.10	59.64	60.14	82.8	138.0
500	55.15	55.72	67.68	68.25	94.0	156.6
400	65.12	65.78	79.91	80.56	110.9	184.9
300	81.15	81.98	99.58	100.4	138.2	230.4
200	108.7	109.8	133.4	134.5	185.2	308.7
150	129.6	131.0	159.1	160.4	220.9	368.1
100	155.8	157.4	191.2	192.8	265.4	442.3
50	183.4	185.3	225.0	226.9	312.4	520.7

To use the chart, suppose you have 43.58 skip down to 600 miles, this means the Es should skip 60.14 MHz at 1420 miles (the maximum one-hop distance). Remember the Es must be at the midpoint of any path so getting short skip on 43 MHz will not always give you TV Es.

The F2 opening to KUA 217 this time of year is really a freak. F2 this fall may be better than expected.

STATISTICS

Glenn Hauser, editor

AUGUST

Box 1466

APO San Francisco 96288

1970

CHANNEL 4 MS DX RECORDS

Call	Location	Miles	Dxer, Location	Comments
WRBL	Columbus GA (AL)	790	Richard Nieman, Buffalo NY	now ch 3 (GA)
			tie King Schafer, Kenmore NY	
			tie Norm Erint, Kenmore NY	
KARK	Little Rock AR	925	(same 3-way tie as above!)	
KaCA	Los Angeles CA	955	Gene Webb, Seattle WA	now KNBC
KaON	San Francisco CA	575	Doris Johnson, Longview WA	
KOA	Denver CO	1370	Richard Nieman, Buffalo NY	
WEC	Washington DC	1090	Edwin Shorey, Derby KS	
WJXT	Jacksonville FL	1030	Bill Draeb, Kewaunee WI	was WMBR
WTVJ	Miami FL	1175	Tom Hidley, Chicago IL	
WBBF	Rock Island IL	990	Don Ruland, Holly Hill FL	
WTTV	Bloomington IN	965	Ghislain Girard, Arvida PQ	
KTIV	Sioux City IA	880	Richard Nieman, Buffalo NY	
WNL	New Orleans LA	1015	Bill Draeb, Kewaunee WI	
WBZ	Boston MA	865	Gary Olson, Barrington IL	
WWJ	Detroit MI	880	Glenn Hauser, Enid OK	
WCBI	Columbus MS	550	Don Roller, Fort Wayne IN	
WDAF	Kansas City MO	850	Norm Erint, Kenmore NY	
KMOX	Saint Louis MO	665	William & Richard Nieman, Buffalo NY	was KWK
KDUH	Hay Springs NB	1175	Steve Weinstein, Pittsburgh PA	
KOB	Albuquerque NM	990	Charles Wood, Ashland OR	
WBEN	Buffalo NY	1100	Glenn Hauser, Enid OK	
WRCA	New York NY	810	Barney Rauch, Peoria IL	now WNBC
WUNC	Chapel Hill NC	745	Bill Draeb, Kewaunee WI	
WKY	Oklahoma City OK	1155	Morris Foote, Middleton ID	
WTAE	Pittsburgh PA	1005	Glenn Hauser, Enid OK	was WCAE
WCIV	Charleston SC	905	Bill Draeb, Kewaunee WI	
WFBC	Greenville SC	850	Glenn Hauser, Enid OK	
WSM	Nashville TN	625	(same 3-way tie as WRBL)	
KGNC	Amarillo TX	980	Don Roller, Fort Wayne IN	
			tie Bill Draeb, Kewaunee WI	
KEDY	Big Spring TX	1080	Robert Cooper, Fresno CA	
KRLD	Dallas TX	960	Bill Draeb, Kewaunee WI	now KDFW
KROD	El Paso TX	980	Morris Foote, Middleton ID	
KGBT	Harlingen TX	1225	David Swanson, Chicago IL	
KJAC	Port Arthur TX	1040	Bill Draeb, Kewaunee WI	was KPAC
WOAI	San Antonio TX	1420	Richard & William Nieman, Buffalo NY	
KTVT	Salt Lake City UT	1345	Larry Vehorn, Speedway IN	now KCPX
WOAY	Oak Hill WV	555	Bill Draeb, Kewaunee WI	
WMMJ	Milwaukee WI	1025	Ed Sparks, Odessa TX	was ch 3
"CBOT"	Ottawa Ont	650	Bill Heusmann, Steger IL	
CMUR	Habana Cuba	1095	Richard Lowry, Temple TX	now off

TV RANK

Name, Location	Stations	States	Provinces	Countries	As of 1970	Date
Jerry Pulice, Staten Island NY	144	33	3	1	29	June
Pat Dyer, TX & CA	141	33	2	5	30	June
Dennis Smith, Wasco CA	137	25	3	3	8	July
Pat Dyer, San Antonio & Austin TX	133	33	2	5	30	June
Pat Dyer, San Antonio TX	119	33	2	5	30	June
John Shannon, Kittanning PA	69	22	2	3	6	July
Dennis Smith, Little Creek VA	69	18+DC	3	3	8	July
Dennis Smith, Santa Barbara CA	34	4	0	2	8	July
Glenn Hauser, Korat Thailand	12	0	0	2	15	July

Sorry, only new reports listed; out of stencils.

Until the next, 73 de Glenn

WESTERN TV

August 1970

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

Deadlines: 12th of each month

We have some more excellent Es reports from the great May openings as well as some good sessions in early June. In fact, there was some Es reported every day throughout June except the 21st (in July so far: 2,3,4,5,7,8). However, after the early month, openings were numerous but inferior to the early season, except for a brief good comeback in the last days of June. As Es waned, tropo took over and provided Midwesterners with fairly good conditions in that area. Even then, there were some areas where the skip season has not been good at all.

Leslie J. Prus, 1615 Pierre Street, Manhattan, Kansas 66502 (8-20 Jun) (Times CDT)
(Selected list) (new underlined) VAFI Mi. (13) (Tr) (0800) KCAU- 9 Sioux City IA 4443 260
10 Tr 2200 KAYS- 7 Hayes KS 2244 150 KCRG- 9 Cedar Rapids IA 3343 380
11 MS 0522 WRBL- 3 Columbus GA 2--- 775 Also Neb. stations in 150-200-
Tr 0620 Nebraska stations 4444 100-200 mile range received
12 Tr 0000 KOCO- 5 Oklahoma City 3334 260 14 Tr 0830 KHQL- 8 Albion NB 3334 185
& others in Okla. 3334 200-300 16 Tr 1615 KUON-12 Lincoln NB (test) 3231 120
13 Tr 0000 KWWL- 7 Waterloo IA 3353 400 19 Es, 1830 tune-in to 1915 closed
KRNT- 8 Des Moines IA 1234 280 KOAI 2 Flagstaff AZ 3323 880
0800 KRNT- 8 Des Moines 4444 280 73. KTVK 3 Phoenix AZ 3223 950
(Thanks for your DX highlights, Les. Good luck when you return home. dps)

Randy Miltier, 882 Pine Ave., San Jose, California 95125 (24 May- 7 Jul) (Times PST)
6-14 Es 1853 KLNE-3 Lexington NB 1260mi. 7-3 Es 1045 KDIX-2 Dickinson ND 1175mi.

As you can see, DX in the Far West is lousy. Does anyone know why conditions are so different than those in the Middle West and East? I've also noticed that not too many West Coast stations are caught by Mid-Westerners.... What do ya think; are we isolated? Welcome to Marv Garber; it only took him a year to join! Good DX. (I haven't had chance to DX, but note Marv hasn't seen much from Calif in Nebr. dps)

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

I am 16 and a BCB, FM, TV and SWL, having started TV DX about 6 months ago with attempt to get KMVT 11 Twin Falls. Now have 22-ft-high antenna up. TV DX has been jumping here; I've received 22 stations so far, plus nearby KBOI-2, KTVB 7 & KMVT 11.

3 Es 2023 WDAF- 4 Kansas City MO (23) (Es) 1700 KDUH- 4 Hay Springs NB
2005 KORN- 5 Mitchell SD 1730 KTIV 4 Sioux City IA
8 Es 2130 WBAP- 5 Ft. Worth TX 24 Es 1400 KHTL- 4 Superior NB
23 Es 1300 KARD- 3 Wichita KS 1900 CBWFT 3 Winnipeg Man.
1330 KOTV 6 Tulsa OK 2030 CFQC1-3 Stransaer Sask.
1420 KFSA- 5 Ft. Smith AR 2000 CBC - 4 ? ?
1630 KLNE- 3 Lexington NB 28 Es 1830 KYTV 3 Springfield MO
1700 KMTV 3 Omaha NB 29 Es 1330 KFDX- 3 Wichita Falls TX

Also mystery, Jun 23 ch3 1500 CDT, ad for Big Valley at 8 on KSX (or KSN).. Any- know what it is? Receiver Arvin 9" TV, ant. 22' above ground. Total now 25. 73.

(CBC may be any Canadian station on CBC TV network on ch 4. Probable KSN was Kansas State Network on KARD-3 (also KCKT 2). Keep up the good work, Frank. dps)

Robert J. Williams, PO Box 151, Blackfoot, Idaho 83221 (23 Jun- 8 Jul) (Times MDT)

Eqp: 5-el. yagi, 20" Zenith console B&W, Astatic set-top booster, T-line trap.

23 Es 1017 ch2 gray scale, 1103 unID TP. (28) (Es) 1429 WITI- 6 Milwaukee (first ch6 log
1258 WKY - 4 Oklahoma City OK apx 1430 KAUS- 6 Austin MN
1430 KVOO- 2 Tulsa OK (VAFI-55?2) 29 Es 1059 WKY - 4 Oklahoma City OK
1520 unID- 2 like CMAB-2 TP, center2 Jul 1145 KRLD- 4 Dallas TX
1536 WMT - 2 Cedar Rapids IA (5??4) 3 Es 1112 unID- 2, 1227 CKCK-2 Regina Sask.
1630 KTCa- 2 St. Paul MN (2??5) Does CKCK have satellites on ch 2?
23 & 24 Es unIDs ch 2 2134 & apx 1900 resp. 5 Es 0930 unID-CBS-4, 1030 unID-2, 1151
24 Tr 0830 KMVT 11 Twin Falls ID (04?5) unID-4, 1211 CCI-4.
Es 1124 unID- 2 7 Es 0850-0900etc, ch2 unID-CCI, WBAY-Grn Bay

26 Tr 0900 KMVT 11 Twin Falls ID
28 Es 1110 unID-2, 1130-1148 CCI-5, 1151
 unID-4, 1207 unID-6, 1218 unID-4,
 1230 unID-CBS-4.

Jul
8 Tr 0857 KMVT 11 Twin Falls. Es 1121, unID2
 Some photos taken. Total 17 + 3 semi-locals
 (Regina is quite certain, Robert, as
 CKCK has no ch-2 satellites. dps)

Fred McCormack, Des Lacs, North Dakota 58733

(June) (Times CDT)

Equipment: Heath GR-25 color TV, Wingard CW-48 antenna

VAFILogMi

<u>2</u> Es 0913 KORK- 3 Las Vegas NV 4434R	(11) (Es) 1527 CKSO- 5 Sudbury Ont. 4444N960
0928 WEAR- 3 Pensacola FL (AL) 4444R	1530 CKS01-3 Eliot Lake Ont. 4333N870
0959 WLBT 3 Jackson MS 4433R	1559 CJIC- 2 SaultSteMarieOn 3433N805
1430 KBTX- 3 Bryan TX 4435R	1617 CFCL3-3 KapuskasingOnt. 2332N865
1725 WBRZ- 2 Baton Rouge LA 3234R	1659 WDIQ 2 Dozier AL 3022R
1818 KVOO- 2 Tulsa OK 4345R	1859 WSJK- 2 Sneedville TN 3433R
1823 KTBS- 3 Shreveport LA 0441R	1928 WWAY- 3 Wilmington NC 3425N1515
1829 KARD- 3 Wichita KS 4043N745	2200 KTBS- 3 Shreveport LA 4435R
<u>3</u> Es 1952 KORK- 3 Las Vegas NV 4433R	0930 WLW-D 2 Dayton OH 3045R
1959 WFBC- 4 Greenville SC 4434N1320	<u>13</u> Es 1330 WRBL- 3 Columbus GA 3332N1350
2220 WSM - 4 Nashville TN 4445N1095	1359 WDCN- 2 Nashville TN 3433R
2236 WRCB- 3 Chattanooga TN 4443N1210	1326 WREC- 3 Memphis TN 4445R
2247 WSB - 2 Atlanta GA 4433R	1427 WPSX- 3 Clearfield PA 4443R
<u>4</u> Es 0013 WCBI- 4 Columbus MS 3433N1195	1559 WLW-C 4 Columbus OH 4433R
1155 KMID- 2 Midland TX 3033R	1629 WKYC- 3 Cleveland OH 4444R
1929 KARK- 4 Little Rock AR 4445R	1659 WNEM- 5 Saginaw MI 3433N895
1930 WLBT 3 Jackson MS 3133R	1729 WGR - 2 Buffalo NY 3135R
1959 KETS 2 Little Rock 4033R	<u>14</u> Tr 0858 KDLO- 3 Florence SD 4445R
2057 KFDM- 6 Beaumont TX 4335N1285	1125 KELO-11 Sioux Falls SD 3332N390
2100 WOAI- 4 San Antonio TX 3333R	<u>15</u> Tr 0628 KCOO 9 Aberdeen SD 2435R
2157 KWAB- 4 Big Spring TX 4234N1080	Es 1200 WDTV 5 Weston WV 3332R
2203 KTXT- 5 Lubbock TX 4032N1000	1200 WLW-C 4 Columbus OH 4244R
2207 KGNC- 4 Amarillo TX 3333R	1225 WSWA- 3 HarrisonburgVA 3434N1300
2210 KFDX- 3 Wichita Falls TX 3443R	1300 WKYC- 3 Cleveland OH 3443R
<u>6</u> Es 2200 KFDX- 3 Wichita Falls 3434R	1304 KDKA- 2 Pittsburgh PA 3433R
2230 KCRA- 3 Sacramento CA 3035R	<u>19</u> Es 2225 KALB- 5 Alexandria LA 4432T
2329 KTVU 2 Oakland CA 3122R	2230 KJAC- 4 Port Arthur TX 4444R
2353 KRON- 4 San Francisco CA 4445N1260	2254 KTBS- 3 Shreveport LA R
<u>8</u> Es 1458 WREC- 3 Memphis TN 3435R	2330 KPRC- 2 Houston TX 3035R
2052 KFDX- 3 Wichita Falls 3435R	<u>20</u> Es 0002 WBRZ- 2 Baton Rouge LA 3135R
2102 WOAI- 4 San Antonio TX 4433R	<u>23</u> Es 1259 KTVK 3 Phoenix AZ 3435R
2132 KWGN 2 Denver CO 4444T	1423 KOAI 2 Flagstaff AZ 3434R
2157 KTBS- 3 Shreveport LA 3433R	1528 KVOA- 4 Tucson AZ 3433R
2158 KVOO- 2 Tulsa OK 4445R	1529 KROD- 4 El Paso TX 3333R
2207 KHTL- 4 Superior NB 2233N575	2229 XEPM- 2 Ciudad Juarez 3135R
<u>9</u> Es 1958 KREM- 2 Spokane WA 3322R	1528 KORK- 3 Las Vegas NV 3334R
1959 CFCR- 4 Kamloops BC 3435N870	<u>24</u> Es 2214 KFSA- 5 Fort Smith AR 4433N930
1959 CFCR6-5 Mt. Timothy BC 3435T	2300 KTBS- 3 Shreveport LA 4445R
2040 KING- 5 Seattle WA 4444R	<u>27</u> Tr 0630 KSOO 13 Sioux Falls SD 3345N390
2055 KXLY- 4 Spokane WA 3433N735	<u>28</u> Es 0900 KPRC- 2 Houston TX 3335R
2159 KTBS- 3 Shreveport 3324R	1058 KBTX- 3 Bryan TX 4143R
2228 KOMO- 4 Seattle WA 2332R	1100 WBAP- 5 Fort Worth TX 3033R
2400 WGR - 2 Buffalo NY 4244R	1127 WOAI- 4 San Antonio TX R
2400 WMAR- 2 Baltimore MD 2442R	1226 KENS- 5 San Antonio R
<u>10</u> Es 0003 KYW - 3 Philadelphia PA 3223N1395	1328 WMC - 5 Memphis TN 3343N1050
0008 WSYR- 3 Syracuse NY 4444R	1358 KGNC- 4 Amarillo TX R
0104 WJBK- 2 Detroit MI 4132R	1359 WATE- 6 Knoxville TN 4445N1200
0121 WBAY- 2 Green Bay WI 3032R	2230 KMOX- 4 St. Louis MO 3032N850
<u>11</u> Es 1400 WCIA 3 Champaign IL 4344R	<u>29</u> Es 0003 WBRZ- 2 Baton Rouge LA 3134R
1427 WPSX- 3 Clearfield PA 3035R	0008 KTBS- 3 Shreveport 2233R
1500 WGR - 2 Buffalo NY 4545R	0051 KALB- 5 Alexandria LA 3335N940
1500 WBEN- 4 Buffalo 3023R	

Present log total: 173.

<u>12</u>	Tr	0530	4,7,10 AmarilloTX	5555R125	<u>31</u>	Tr	0610-30 Wich.Falls-Amarillo	5555R125
			to KOSA- 7 Odessa TX	3443R285			0630 KCBD-11 Lubbock TX	4545R175
		1000	8 & 10 Roswell NM	4443R315		Es	1900 KUTV. 4 Salt Lake City	5545R754
			KMON 9 Monahans TX	4544R325			1900 KCPX- 4 Salt Lake City	3435R754
			KFDW-12 Clovis NM	4544R220			2120 KTVU 2 San Francisco	5542R1268
<u>13</u>	Tr	0700	KTUL- 8 Tulsa OK	5541R220	Jun		2120 KCRA- 3 Sacramento CA	5543R1212
<u>14</u>	Tr	0830	KWTV 9 Oklahoma City	5545R125	<u>1</u>	Es	1724 WGR - 2 Buffalo NY	5542R1211
<u>15</u>	Es	1805	XEHR- 3 QTH unknown	5534N			to CKVR- 3 Barrie Ont.	5544N1212
			to (Video ID) Also ch2 IDed as				2100 WBEN- 4 Buffalo NY	5544R1211
		1836	"from the geographical center of Mexico" (in Spanish)		<u>2</u>	Es	0840 KDAL- 3 Duluth MN	5544R874
<u>16</u>	Es	1250	KTVU 2 San Francisco	5543R1268			1130 KTCA- 2 St. Paul MN	5542N754
		1325	KCRA- 3 Sacramento CA	5543R1212			1300 WJBK- 2 Detroit MI	5542R1013
		1345	XHIA- 2 Torreon Coah.	5533N900			1335 WBBM- 2 Chicago IL	5542R716
		2056	KEY-T 3 Santa Barbara	5543R1125			1230 WKYC- 3 Cleveland OH	5543R1060
		2055	KNBC 4 Los AngelesCA	5544R1055			1130 WCCO- 4 St. Paul MN	5544N754
		2055	KNXT 2 Los Angeles	5534R1055			1215 KXJB- 4 Valley City ND	3433R802
		2140	KTLA 5 Los Angeles	5534R1055	<u>3</u>	Es,	very strong, very slow-fading Es today	
<u>17</u>	Es	0817	WESH- 2 Orlando FL	5525R1158			1230 WUSN- 2 Charleston SC	5545R1130
		1030	KDIX- 2 Dickinson ND	5532R814			1230 WWAY- 3 Wilmington NC	3434R1222
		1200	WJBK- 2 Detroit MI	5543R1013			1330 CKOS- 3 Yorkton Sask.	4533N1103
		1250	WJNM 3 Escanaba MI	5544N974			1728 WFMY- 2 Greensboro NC	5543R1107
		1250	WWJ - 4 Detroit MI	4534R1013			1740 WSB - 2 Atlanta GA	5542R864
<u>18</u>	Tr	2200	KFDX- 3 Wichita FallsTX	5545R125			1729 WBTW 3 Charlotte NC	5542R1052
<u>19</u>	Tr	0700	WKY - 4 Okla. City OK	5555R125			1830 WSAV- 3 Savannah GA	5543R1069
		0730	KAUZ- 6 Wichita Falls	5555R125			1730 WFBC- 4 Greenville SC	5543R964
		0900	KMON 9 Monahans TX	5555R325			1810 WCIV 4 Charleston SC	5543R1130
	Es	0845	WESH- 2 Orlando FL	5545R1158			1750 WCSC- 5 Charleston SC	5544R1130
<u>20</u>	Tr	0700	KRBC- 9 Abilene TX	3434R200			1747 WAGA- 5 Atlanta GA	5543N864
<u>21</u>	Tr	0800	KCBD-11 Lubbock TX	4545R175			1745 WJBF 6 Augusta GA	5544R1003
	Es	0910	WESH- 2 Orlando FL	5545R1158			1830 WCBI- 4 Columbus MS	4543N647
		1830	KTVN 2 & KCRL 4 Reno NV	5544R1130			1900 WTVY 4 Dothan AL	5543R860
		1951	KTVU 2 San Francisco	5542R1268			1900 WBRC- 6 Birmingham AL	5544R735
		2009	KEY-T 3 Santa Barbara	5544R1125			1930 WCTV 6 Tallahassee FL	5544R943
		1948	KPIX 5 San Francisco	3434R1268			2000 WDIQ 2 Dozier AL	5542N806
<u>25</u>	Es	1015	WDCN- 2 Nashville TN	5543R722			2120 WEAR- 3 Pensacola FL	5542R747
		1015	WBAY- 2 Green Bay WI	5532R872			2122 WESH- 2 Orlando FL	5542R1158
		1012	WISC- 3 Madison WI	3334N764			2202 WEDU 3 s/off @ 2202	5533R121
		1030	WFRV- 5 Green Bay WI	4534N872	<u>4</u>	Es	1917 KDAL- 3 Duluth MN	5543R874
		1130	KDIX- 2 Dickinson ND	4545R814			2100 KDIX- 2 Dickinson ND	5542R814
<u>27</u>	Tr	0615	KFDA-10 Amarillo TX	5555R125	<u>5</u>	Tr	0615 K06DF 6 PampaTX 10watts	2323R 91
<u>30</u>	Tr	0630	KFDX- 3 Wich.Falls TX	5555R125			0550-0615 OKCity,WichFl,Amar	5555R125
	Es	1100	WUSN- 2 Charleston SC	5543R1130			0730 KAKE-10 Wichita KS	3443R215
		1100	WSAV- 3 Savannah GA	5544R1069		Es	1200 WESH- 2 Orlando FL	5544R1158
		1215	WFMY- 2 Greensboro NC	5543R1107	<u>6</u>	Es	2200 CKCK- 2 Regina Sask.	4533R1074
		1215	WMAR- 2 Baltimore MD	5542N285	<u>7</u>	Es	1653 WJBK- 2 Detroit MI	5542R1013
		1220	WOAY- 4 Oak Hill WV	5543R1041			1700 WCIA 3 Champaign IL	4533N666
		1220	WRC - 4 Washington DC	5543R1265			1702 WWJ - 4 Detroit MI	4544R1013
		1230	WRAL- 5 Raleigh NC	5534N1160			1753 KNXT 2 Los Angeles CA	5543R1055
		1230	WCYB- 5 Bristol VA	5543R964	<u>8</u>	Tr	out to 200 mi. good-excellent.	
		1230	WTTG 5 Washington DC	5543R1265		Es	2040 CKCK- 2 Regina Sask.	5543R1074
		1235	WECT 6 Wilmington NC	5544N1168	<u>9</u>	Tr	0800 KWTX-10 Waco TX	3433R300
		1235	WTVR- 6 Richmond VA	5544N1230		Es	2045 CKPR- 2 Port Arthur	5544R1045
		1730	WBTW 3 Charlotte NC	5543R1052	<u>10</u>	Tr	0550-0800 4,5,9,13 OKCity	5555R125
			to WFBC- 4 Greenville SC	5543R964			0615 WBAP- 5 Ft. Worth TX	4543R250
		2240	4 & 5 Charleston SC	5544R1130			0630 KMID- 2 Midland TX	3434R270
			WJBF 6 Augusta GA	5545R1003	<u>11</u>	Tr	Began long period of Tr beyond 400mi & longer period of just plain "good" Tr	
			In this Es session, MUF was up to 107 MHz. Watched ch 7 but nothing showed.				0615-0630 3,6 Shreveport LA	2334N390
			Tr 2230-2300 11,13,28,34 Lubbock	5555R175				

- (11) (tr) 0700 KALB- 5 Alexandria LA 2332N497 22 Tr 0545-1000 Wich.Falls-Amar. 5555R125
 0600 WAFB- 9 Baton Rouge LA 2335R620 23 Tr 2300 unID chs 78? & 80, translators.
 (my longest VHF tropo reception) 23 Tr 1100 3 & 6 Wich. Falls TX 5555R125
 0545 KFLY-10 Lafayette LA 3434N595 0630 KOLN-10 Lincoln NB 3443R420
 0615 KSLA-12 Shreveport LA 2334R390 Es 1200 KREM- 2 Spokane WA 5543R124
 0640 KXII 12 Ardmore OK 4545R180 1330 KBOI- 2 Boise ID 5542R1030
 0545 WFAA- 8 Dallas TX 3435R285 1230 KRTV 3 Great Falls MT 5544R991
 0600-0640 4,5,9 OK City OK 5545R125 1330 KID - 3 Idaho Falls ID 4542R862
 Unusual morning--arose 0545, wind in 1345 KOOK- 2 Billings MT 5542R860
 gale, locals fast-fading, 0730 Tr down. 1304 KXLY- 4 Spokane WA 4543M124
 Es 2030 CKVR- 3 Barrie Ont. 5543R1212 24 Es 1530-1630 Spokane, Reno, LV, LA, SBar ch
 13 Tr 0620-1430, very strong, Midland (270), 2-4. Good5, exc6 unID. I left 2200.
 WichFalls-OKCity-Amar(125), Abilene 25 Tr 0550-0755, OKCity, WichFls, Amr5555R125
 (200), Clovis(220), KFDA-10Amar. in- 0730 KTEN 10 Ada OK 4544R175
 credibly strong, KSEL-28Lubbock 3445R175 0930 KSEL-28 Lubbock TX 3435R175
 Es 1154t/in:WMAR-2 BaltimoreMD 4442R1286 26 Tr 0545-1000, 2,6,8 Tulsa strong, WichFls
 1225 WJNM 3 Escanaba MI 4543R974 OKCity, Abeline, 3&10Springfield MO-
 1710 XHBC- 3 Mexicali BC(tp)4434N910 3444R380, KODE-12 Joplin- 3444R320.
 Tr 22-2300 4,5,9 OKCity OK 5555R125 27 Tr 0620-40, WichFalls-Ardmore strong.
 9 Abilene 4543R200. Tr-250mi good. Es 1300-1400, WESH-2, WRBL 3, WJXT 4, clear
 14 Tr 0630 KPRC- 2 Houston TX 3444R460 28 Es 1200 WLW-D 2 Dayton OH 5544R894
 0615 KATC 3 Lafayette LA 3444R595 1500 CKCK- 2 Regina Sask. 5543R1074
 0630 KLTV 7 Tyler TX 3444R350 1000 KGLO- 3 Mason City IA 5544R638
 0545 WFAA- 8 Dallas TX 4545R250 1300 CBWFT 3 Winnipeg Man(tp)5545R1014
 0550 WAFB- 9 Baton Rouge LA 3444R620 1500 CHAB- 4 Moose Jaw Sask. 5544M1079
 0550 KFLY-10 Lafayette LA 3444R595 29 Tr, good out to 200 mi.
 0600 KHOU-11 Houston TX 3343R460 Es 0800 KOOK- 2 Billings MT 5543R860
 0615 KTRK-13 Houston 3343R460 0950 WCBI- 4 Columbus MS 5544R634
 (Others out to 300-miles good.) 0927-1130 regulars: WFBC-4 WCIV 4
 MS 0610 WSB - 2 Atlanta GA 4414R864 WCSC 5 SC, WJBF 6 WSB-2 GA, WUSN-2SC,
 (My first IDed MS reception.) WRBL 3 WSAV-3 WAGA-5 GA, CKCK-2 Sask
 Es 0850 WUSN- 2 Charleston SC 5544R1130 1400 KRTV3 KFEB-5 GrtFallsMT 5544R991
 0850 WCIV 4 Charleston SC 4544R1130 1430 KXLF 4 KTVM 6 Butte MT 5545N991
 1015 WWL - 4 New Orleans LA 5544R666 Exc.Es session. If KTVM is new, I may
 0930 WSB - 2 Atlanta GA 5542R620 be one of first to see it by Es. At
 0850 WCSC- 5 Charleston SC 4534R1130 Jul the time, KGVO 13 was IDing for them.
 0930 WAGA- 5 Atlanta GA 4534R620 1 Tr good to 300 mi. Es 1548 unID 2,4 gd
 Tr 21-2300, Houston, Lafayette, Ardmore, OK 2 Tr 0550 KWTW 9 Okla. City 5555R125
 City, strong, others to 400mi good-excl. 3 Es 1032 WSB - 2 Atlanta GA 5543R620
 15 Tr 0615-0725, Lafayette, Odessa, Lubbock, 1052 WRCB- 3 Chattanooga TN 5544N963
 Roswell(KSWS-8 disposed of local ch8) 1055 WFBC- 4 Greenville SC 5544R964
 Again; stations to 400 mi good. 1200 WRBL- 3 Columbus GA 5543R856
 16 Tr 0615-45, Lafayette-Waco good, Amarillo 5 Tr 0620 KFDX- 3 Wichita Falls 5555R125
 strong(KFDA-10 intense signal). Es 1700 WSB - 2 Atlanta GA 5542R620
 17 Tr 0900 t/in, ch4&5 Dallas TX 4544R285 WAVE- 3 Louisville KY 5544R840
 to KTBC- 7 Austin TX 4543R370 Outstanding E-skip and good Tropo con-
 1300 KHFI-42 Austin 2235N370 tinue in western Oklahoma. After a run like
 (My 3rd and longest UHF tropo) that, I'm loing to need this winter to re-
 2000 KATV 7 Little Rock AR 3432N425 cuperate! Right now, my antenna system is
 KTHV 11 Little Rock 3444R425 "apart," waiting arrival of 7-ft UHF dish
 2300 KCKT 2 Great Bend KS 3444R225 and more 300-ohm twin-lead. It will have
 18 Tr 0615-45, Midld, WichFls, Ab, Dal, Lub, g/exc UHF booster and be fix-aimed west, most
 Es 0600 WFMY- 2 Greensboro NC 4543R1107 likely. My Lafayette LVL VHF will be on
 0645 WLW-D 2 Dayton OH 5544R894 another circuit with 300-ohm line and
 0800 KDKA- 2 Pittsburgh PA 5543R1113 rotatable. So after about 2 weeks, watch
 1300 KOAI 2 Flagstaff AZ 4534N666 out again! Log now stands at 205 TV sta-
 19 Es 2020 WDIQ 2 Dozier AL 4543R806 tions. 73 and the best TV DX.
 2030 WSB - 2 Atlanta GA 4542R864 (Reckon we should move to Oklahoma if
 2020 WRBL- 3 Columbus GA 5544R856 that is where much of the DX is--this
 21 Tr 0600-20 WiFls-Amr5555R125; Tr good200mi summer for sure. dps)

Bob Cooper, Jr, 6221 Norman Road, Oklahoma City, Oklahoma 73122 (8 Jun- 7 Jul) (CDT)

There were more hours of Es this period than May period here but the quality of openings was much lower. Did manage to add 28 new stations in spite of this as tropo was substantially better than May. Biggest disappointment in month was getting thru June with no high-band Es and without the (almost) traditional super opening apx 20-23rd

Jun 8 MS 0503 WBBM-2; 0508 WSM-4; also note WBAY has gone to TV-2 format not only in IDs but in early AM test pattern as well. Whoever started this TV2, TV3, etc. business should be shot. Damn, I KNOW what channel I am tuned to! Tropo 0658 KHAS-5 (350 mi). First Es of day 1930 KDKA-2; 1930-2205 in & out with heavy fading to NE, N, NW including amongst the QSB and QRM CBWFT 3, CKOS-3, CKCK-2, etc.

Jun 9 Es 1208-1215 weak to ENE ch 2 no ID; 2025-2320 another late-evening, high-fading weak-signal Es opening to N & NW, CHCT-2 and CBWFT 3 among others.

Jun 10 tropo 0655 KHAS-5; 0700-0800 KGIN-11 (370mi), others 300-370mi-range to N.

Jun 11 Es 0837-1140 N & NNE incl WBAY-2 WJBK-2 CKVR-3 WBBM-2 CJIC-2; 1625-1700 strong chs 2-3 but tornadic activity in area prevented real DXing (at 1525 a funnel passed over the house and sucked half of the FM array into the next county!); 1845-2325 to far NW states & Ont/Que, lots of 1200-1500-mi single hop on chs 2-3.

Jun 12 2022-2110 XEW-2 plus Frank Merrill's strange ch 3. It peaked ESE (115-120 degrees) from here with horizontal sync way off to the right. At 2107 I had man and woman talking (French) with 'RAI' symbol on board between and behind them. I'm just as puzzled as Frank was.

Jun 13 tropo 0701 KFDW-12 Clovis NM (rare here). Es 0840-1745 in & out during period, including some strange stuff on ch 2 apx 0845-1045, Spanish with horiz-sync-right signals, 130-140-degree heading (probably Venezuela); KDKA-2, CFFA-2 and others IDed during up periods. Es 1730-1745 WUSN-2.

Jun 14 tropo 0630-0920 south, incl KPRC-2 (420mi) KHFI-42 KHTV 39 KHOU-11 KTRK-13; 0925-1030 weak in/out to E, ch 2-3 no IDs; 1030 CFRN-3 Edmonton (1475) good; 1040-1335 KORK-3 KTVK 3 XETV 6 KNXT 2 plus Spanish on 2. Tropo 2135-0100 KPRC-2 THRU KVOO-2 plus KHFI-42 KKBC-34 KHOU-11 KTBC-7 KSAT-12 (450) and tentative KGBT-4 (750) et al.

Jun 15 tropo 0604-0730 KATC 3 (465) KMBC-9 KTAL-6 KSLA-12 KTHV 11 KALB-5 KLNI-15 (485) et al; 2200-2300 again w/ KHFI-42 KLNI-15 KTHV 11 best + others 300-450-mi range.

Jun 16 tropo 0625-1100 KLNI-15, others 300-475-mi range. Es 1740-2030 WESH-2 WEDU 3 WPBT 2, mystery ch-3 again (1910-1920), WUND-2 WFMY-2 and others.

Jun 17 tropo 0720-0830 KTRK-13 KHOU-11 (420) KTBC-7 KHTV 39 KHFI-42, tentative W18AA (100-watt translator EL Dorado AR), KTHV 11 WHBQ-13 (420) etc.; 2020-0100 KETS 2 (300) thru KVOO-2, KTHV 11, WMAA 29 (473mi, UHF no. 99 & UHF state no. 16), WAAV-31 (623) WHIQ-25 (623) KATV 7 KSLA-12 WHBQ-13 WWOM-26 (575) and many others.

Jun 18 tropo 0645-0900 KTHV 11 KHTV 39 & others. Es 0745-0805 WESH-2; 1309-1400 XEW-2 XEZ-3.

Jun 19 Es 1645-1745 WUND-2 KOAI 2; 2248-2305 CBWFT 3 CKCK-2.

Jun 20 MS, disappointing morning in spite of predicted high meteor count.. WBAY-2, WBBM-2, others, but no real DX.

Jun 21 tropo 2135-2300 KDNL 30 (458 mi) good.

Jun 22 tropo 2145-2300 KHNE-29 WAND-17 (556) WICS 20 (523) KDNL-30 WJY-14 (501) WSBT-22 (742).

Jun 23 tropo 0655-0730 KHAS-5 KHPL-6 KGIN-11 KHOL-13 (350-400mi). Es 1135-1740 in & out to NW during period including KREM-2 KBOI-2 KLEW-3 CHCT-2.

Jun 24 Es 1100-1530 in & out, KBOI-2 CHCT-2, many unIDs; 1643-1710 WESH-2; 1830-2210 in & out entire time, incl Spanish ch 2 apx 1926, 130 degrees again (not Mexico) and ch 3 1655-1703 (probably WIPM 3 Mayaguez).

Jun 25 Es 1750-1927 WUSN-2 and others in & out. Tropo 2205-0130 KDNL-30 KCIT-50 KPLR-11 KMOX-4 KSD-5 (458) WAND-17 (556) KMBC-9 KTVI 2 (458).

Jun 26 tropo 0630-0830 KTVI 2 KSD-5 KTTS-10 WLKY-32 (675) WEHT 25 WFIE-14 (576) K7ØEK KTHV 11 WJY-14 and others.

Jun 27 Es 1115-1225 WUSN-2; 1300-1715 WCBS-2 WMAR-2 WESH-2 and others including Spanish ch 2 at end of time. Tropo 2002-2345 KCIT-50 WJY-14 KDNL-30, poor signals.

Jun 28 tropo 0815-1030 WJY-14. Es 0815-1600 good session, WBAY-2 WBBM-2 KGLO-3 WUSN-2 WFMY-2 KORK-3 WLW-D 2 WAVE-3 WTVN-6 WJAC-6 CBWFT 3 WGR-2 WFBM-6 and many more; had ch 3 CBC test pattern around 1413 CST, any ideas? 1955-2040 WUSN-2 WSAV-3 on Es.

Jun 29 Es 0823-1330 in & out, incl WFMY-2 WESH-2 WEDU 3 WCBS-2 WTAR-3 WMAR-2 KOOK-2 KHQ-6 KBOI-2.

Jun 30 tropo 0810-0945 north incl WJY-14 WSNS 44 (697mi, UHF no.100)-WCIU-26 (697) WEEK-25 KDNL-30 KCIT-50. Es 1915-2205 very intense N & NE incl CJIC-2 CKVR-3 WLUC-6 WBAY-2. & many others. Tropo 2050-0130 into same region with, WJY-14 WFLD-32 WSNS 44 WMBD-31 WEEK-25 KDNL-30, probable Dubuque-40, WLS-7 & tent. WGN-9 (thru KMBC-9).

Jul 1 tropo 0555-0830 N & E w/ WSNS-44 WEEK-25 WMBD-31 WJY-14 WAAY-31 (630mi).

Jul 2 Es 1815-1844 to SE, several Spanish stations in & out; at 1827 ID ch 2 featured prominently a large numeral '4' (ch 2 obviously part of net or relay). Tropo 2030-2300 KDNL-30 (458mi) poor signal.

Jul 3 Es 0955-1245 in & out w/ WESH-2 WUSN-2 & others; 1325-1450 CJIC-2 in & out.

Jul 4 Es 1550-1930 in & out weakly most of period; KDKA-2 identified at 1840.

Jul 5 Es 0945-1001 ch 2 NW color bar no ID; 1018-1600 heavy in & out most time w/ best signals south. Unfortunately this was Mexican election day and most stations were running open-ended election coverage with few IDs seen. Noted during time were XEW-2 XEZ-3 KORK-3 XEFB-3 (on TP & color bar 1236-1400 or so) CBWFT 3 CKCK-2 KIII 3 (585-mi Es) KPRC-2 (420-mi Es); 1720-1830 in&out N, Canadian, no IDs. Tropo 2300-0100 N & NE incl KDNL-30 WAND-17 WJY-14 KCIT-50 WEEK-25 WICD 15 KATV 7 & others in 300-625mi range.

Jul 6 tropo 0900 KCIT-50.

Jul 7 Es 1503-1510 Canada ch 2, no IDs; 1857-1903 WUSN-2 poor; 2145-2300 weak in & out N, briefly as high as ch 6, CJIC-2 CKCK-2 and others. 73.

(Bob, good luck on getting mystery solved. I guess both you and Morrie Goldman have had twister experience now--hope no one else. dps)

Robert Grace, PO Box 309, Franklin, Texas 77856

(10 May- 30 Jun) (Times CDT)

10 Tr 0900 KLBK-13 Lubbock TX (Oral Roberts)	9 Tr 0900 KSEL-28 Lubbock TX (Jack LaLanne)
KMID- 2 Midland TX (Revival Fires)	KLBK-13 Lubbock (Lucille Ball)
11 Es 1630 KTWO- 2 Casper WY (Dark Shadows)	10 Tr 0000 KMID- 2 Midland TX (sign off)
KWGN 2 Denver CO (Underdog)	KACB- 3 San Angelo (Reading Dynam)
15 Es 2230 KNXT 2 Los Angeles (Hogans Hero)	KOSA- 7 Odessa TX (sign off)
16 Es 1300 KTWO- 2 Casper (NBC Baseball)	KCTV 8 San Angelo TX (sign off)
1500 KDIX- 2 Dickinson ND (film featur)	KTXS-12 Abilene TX (sign off)
1530 KXJB- 4 Fargo ND (CBS Childrens Th	11 Tr 0030 KMON 9 Monahans TX (movie)
1630 KNXT 2 Los Angeles (Preakness	0010 KFDA-10 Amarillo (test pattern)
1700 WTAE- 4 Pittsburgh (WW of Sports)	2000 KETS 2 Conway AR (NET Playhouse
1800 CKPR- 2 Pt Arthur Ont (Bev Hilbil)	13 Es 1730 KNXT 2 Los Angeles (Jim Thomas)
KDAL- 3 Duluth MN (CBS News)	14 Tr 1200 KMID- 2 Midland (Meet the Press)
1830 WCCO- 4 Minneapolis (A Williams)	15 Tr 2330 KLNI-15 Lafayette LA (J. Carson)
KSTP- 5 St. Paul MN (J Gleason)	KXIX 19 Victoria TX (movie)
18 Es 1700 KOAI 2 Flagstaff AZ (H. Squares)	KSEL-28 Lubbock (Dick Cavett)
23 Es 1230 KNXT 2 Los Angeles (CBS Cartoons)	KKBC-34 Lubbock TX (movie)
25 Es 2200 KNXT 2 Los Angeles (Gunsmoke)	16 Es 0330 XHTV 4 Mexico DF (sign off)
73 Es 1200 WMAR- 2 Baltimore MD (news)	XHGC- 5 Mexico DF (Commander Aero
WRC - 4 Washington DC	Tr XHAI-10 Las Lajas, Ver. (news)
1800 WBBM- 2 Chicago IL (news)	0130 XEFE- 2 Nuevo Laredo, Tamps. (s/off
WBAY- 2 Green Bay WI (news)	XEFE- 3 Monterrey NL (talk show
WTWO 2 Terre Haute IN (news)	XET - 6 Monterrey (sign off)
KTVI 2 St. Louis MO (news)	XHAH- 8 Las Lajas, Ver. (news)
2130 WSB - 2 Atlanta GA (Bronson)	XHX -10 Monterrey (news)
5 Es 1730 KWGN 2 Denver CO (Batman)	4,7,11 unIDs (XEW network)
KUTV 2 Salt Lake (Lost in Space)	19 Es 1600 KOAI 2 Flagstaff (Concentration
2230 KNXT 2 Los Angeles (Hogans Heros)	24 Es 1330 WMT - 2 Cedar Rapids (Guild Light
2300 KHI - 2 Ciudad Obregon, Sonora	29 Es 1230 KOOK- 2 Billings (Life-Linklette
7 Es 2000 KORK- 3 Las Vegas (High Chaparral)	30 Tr 0800 KWTV 9 Okla. City (Capt Kangaroo)
2200 KNXT 2 Los Angeles (Ed Sullivan)	KXII 12 Ardmore OK (Today Show)
2300 KUTV 2 Salt Lake City UT (news)	Total log is now 136.

(Very good, Robert. Hope the season holds up there, either in Es or tropo. dps)

Don Ruland, 3219 Burnside Drive, San Antonio, Texas 78209 (10 Jun- 5 Jul) (Times CDT)

10 Tr 0630 KRLD- 4 Dallas TX	(14) Es 1000 WLW-D 2 Dayton OH
14 Es 0955 WAVE- 3 Louisville KY	1100 KTVO 3 Kirksville MO

(14) (Es) 1200 KWGN 2 Denver CO	(28) (Es) (0900) KDIX- 2 Dickinson ND
1300 KNOP- 2 North Platte NB	1000 KDLO- 3 Garden City SD
15 Tr 0530 WFAA- 8 Dallas (local quality)	1050 CBWFT 3 Winnipeg Man. (test pat)
KALB- 5 Alexandria LA	1130 KOTA- 3 Rapid City SD
0600 KNOE- 8 Monroe LA	KID - 3 Idaho Falls ID
KRLD- 4 Dallas TX	2000 KDKA- 2 Pittsburgh PA
WBAP- 5 Ft. Worth TX	J5 Es 1100 XEW-2 (tp, unsure of actual sta.)
0630 KLTW 7 Tyler TX	1330 KUTV 2 Salt Lake City UT
28 Es 0730 KDKA- 2 Pittsburgh PA	1400 WPBT 2 Miami (ID slide as tp)
0800 WMT - 2 CedarRapidsIA (test pat.)	1410 WEDU 3 Tampa FL (test pattern)
KOOK- 2 Billings MT	1435 WESH- 2 Daytona Beach FL
0900 KGLO- 3 Mason City IA	Present log total now 76.

(Continued good progress in building your log there in Texas, Don. dps)

Pat Dyer, 327 Solar Drive, San Antonio, Texas 78227 (8 Jun- 6 Jul) (Times CST)

Eqp: 1968 RCA color model GJ721W, Wards 11-el hi-low VHF ant, 15 ft up, fix-aimed SE.

8 Es 1929 KDIX- 2 Dickinson ND	Mi: 1225 (16) (Es) 1759 WSJK- 2 Sneedville TN	1025	
Tr 2059 KPRC- 2 Houston TX	185	1829 WUSN- 2 Charleston SC	1115
14 Tr 2340 KWTX-10 Waco TX	165	Tr 2315 WBAP- 5 Ft. Worth TX	230
2340 KTRK-13 Houston TX	185	2320 WFAA- 8 Dallas TX	240
2345 WFAA- 8 Dallas TX	240	2335 KGBT- 4 Harlingen TX	215
2345 KHOU-11 Houston TX	185	2345 XEFB- 3 Monterrey NL	290
2345 KGBT- 4 Harlingen TX	215	2345 KHOU-11 Houston TX	185
2350 KRLD- 4 Dallas TX	240	17 Tr 0045 KPRC- 2 Houston TX	185
15 Tr 2258 WAFB- 9 Baton Rouge LA	450	0050 XHX -10 Monterrey NL	290
2300 KCEN- 6 Temple TX	135	19 Es 1330 ? 2 Habana, Cuba (ICR net)	1090
KTRK-13 Houston TX	185	1629 KNOP- 2 North Platte NB	820
2305 KGBT- 4 Harlingen TX	215	1629 KOTA- 3 Rapid City SD	1050
KRGV- 5 Weslaco TX	215	1729 KDIX- 2 Dickinson ND	1225
2325 KBMT-12 Beaumont TX	265	28 Es 0928 WJBK- 2 Detroit MI	1240
2346 XEFB- 3 Monterrey NL, Mex.	290	0959 KTWO- 2 Casper WY	1015
2347 WFAA- 8 Dallas TX	240	0959 KDAL- 3 Duluth MN	1250
2357 KRLD- 4 Dallas	240	29 Es 0859 WBBM- 2 Chicago IL	1050
16 Tr 0000 XET - 6 Monterrey NL, Mex.	290	J3 Es 1059 WBAY- 2 Green Bay WI	1190
0015 KTVT 11 Ft. Worth TX	230	1259 KWGN 2 Denver CO	800
0025 XHAJ- 5 Las Lajas, Ver., Mex.	?	1329 KDIX- 2 Dickinson ND	1225
0100 XHX -10 Monterrey NL	290	6 Tr 2305 KRGV- 5 Weslaco TX	215
0100 XHAV- 7 Mexico	?	2305 KGBT- 4 Harlingen TX	215
0100 4,8,11 unID Mexico (XEW net)			

I got some more Mexico IDs pulled through; however, there are many I don't have yet. I note in July VUD that Glenn Hauser has given me some credit on more probable ones. He said XHBR was in Nuevo Laredo but I have it in Guadalahara. It didn't seem strong enough to be as close as Laredo but Guadalahara is a bit far. Can't find where XHAV is. Can't find Las Lajas, Veracruz on any map so it may be anywhere from 500 to over 800 miles. Having the locals sign off early on CDT helps a lot with Mexico tropo since Mexico is on CST.

Es in June slowed down some from what May was doing. Tropo on June 14 brought in 50 MHz from Oklahoma. The Es MUF hasn't hit ch. 6 well enough for me to pick out anything under local 5 slop. The local transmitters are over 25 miles away but with the antenna fix-aimed at them it gets rough. As it looks now May 30-31 was the peak of the season, about three weeks earlier than usual for here. 73..WA5IYX/5.

(Good going, Pat. I'm no help on Mexico, either... dps)

Don't forget--if you really want fast courteous attention and wish your unidentified catches to be seen without being buried in a mass of loggings, send them to Bill Heusmann and the Co-Channel Interference column. You'll wonder why you hadn't done it sooner.

EASTERN TV DX

Dave Pomeroy
KCSO-TV

1211 McGee St.
Kansas City, Mo. 64106

SS-U-1 Deadline August 14

I am glad to be able to report that although I am moving out of the "Eastern TV-DX" region that I will be able to continue as editor of this column. Unfortunately, I do not have a new home address as of yet, but I will receive all reports without any problem if they are sent to me in care of KCSO-TV. (see above)

I am also glad to be able to report that the months of June and July have been quite productive for Eastern TV-DXer's. This is true not only for skip reception but also for tropes. Since last month's column skip reception has been reported for June 10, 11, 13, 16, 17, 19, 25, 27, 28, and 30 as well as for July 2, 4, and 6. Eastern reporters have seen tropes openings on June 10, 11, 15, 18, 20, 21, 22, 23, 24, 25, 28, 29, 30 and July 1 to 7.

The most productive skip days were June 11 (6 reports) and June 28 (4 reports). The beginning of July brought a tremendous tropes opening with Bob Seybold reporting 161 stations on July 2. Here in Kentucky I had two full days of WAAY-31 from Huntsville, Alabama and for the first time--WKYH-57 from nearby Hazard.

Special thanks goes out to Glenn Hauser who has supplied some recent information concerning Caban stations. I will be referring to this information from time to time.

John P. Lombardo, 23 Grove Terrace, Irvington, New Jersey 07111

5-6 Es	2000 KLNE-3	Lexington, NB	6-1 Es	1400 WEDU-3	Tampa, FL
5-10	1100 KARD-3	Wichita, KS	6-3	1330 KATC-3	Lafayette, LA
	1100 KYTV-3	Springfield, MO	6-9 Tr	0722 WNOK-19	Columbia, SC
	1131 KOTV-6	Tulsa, OK	6-11 Es	1945 KATC-3	Lafayette, LA
5-31	1554 WCIX-6	Miami, FL		2036 KVOO-2	Tulsa, OK
6-1	1630 WESH-2	Daytona Beach	7-4	1511 WESH-2	Daytona Bea.

Albert J. Kopec, RD#1, Himrod, New York 14842 (EDT)

2-4 Es	1730 CJCB-4	Sidney, NS	6-28 Es	1500 KVOO-2	Tulsa, OK
3-3 GW	1930 WUTR-20	Utica, NY	7-3 Tr	0735 WMTW-8	Mt. Wash., NH
6-11 Es	1830 WESH-2	Daytona Beach		0750 UNID-11	w/WGR-2 ID
	1830 WJXT-4	Jacksonville (could be translator of WGR, dp)		0800 CFTM-10	Montreal, Que.
	1900 WDSU-6	New Orleans		0844 WCAX-3	Burlington, VT
	1900 WTVY-4	Dothan, AL #118		1050 CFCF-12	Montreal, Que.
	1900 KETS-2	Little Rock		1058 CBMT-6	Montreal, Que.
6-28	1220 WWL-4	New Orleans			

Waldo F. Bishop, PO Box 1678, Tallahassee, Florida (EDT)

5-30 Es	2000 KWGN-2	Denver, CO	5-31 Es	KCKT-2	Great Bend, KS
	2030 KMID-2	Midland, TX	6-1	1915 KCKT-2	Great Bend, KS
	2100 KQTV-2	St. Joseph, MO	6-3	2125 KOAA-5	Pueblo, CO
	2300 KHAS-5	Hastings, NB	6-11	2300 KUSD-2	Vermillion, SD
5-31	1600 XEFB-3	Monterrey, NL	6-19	1245 UNID-2	Mexico
	2100 KACB-3	San Angelo, TX			(Also daily tropes to 300 miles)

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

6-2 Es	1200 KFDX-3	Wichita Falls	6-10 Es	1132 CKPR-2	Thunder Bay
6-4	1915 KARD-3	Wichita, KS		(VAFI--5544R, 5544R, & 5544R)	

(Total for Larry now 130 stations in 30 states)

Bob Seybold, Bennett Road, Dunkirk, New York

6-20 Tr WLWC-4 WENY-36 WTVN-6 WJRT-12 WBNS-10 WOOD-8 WJIM-6 WILX-10
 WSYE-18 WINR-40 WBJA-34 WBRE-28 WDAU-22 WNEP-16

6-21 WJAN-17 WKBD-50 WDAU-22

6-22 WHIZ-18 WTAP-15 WSBT-22 KYW-3 WDTV-5 WLWT-5 WCHS-8 WHTN-13
 WGAL-8 WJZ-13 WBNS-10 WLWC-4 WTVN-6

6-23 KYW-3 WRC-4 WFIL-6 WDHO-24 WTVS-56 WXON-62 WKBD-50 WGAL-8
 WHTN-13 WCHS-8 KYW-3 WBRE-28 WDAU-22 WNEP-16

6-24 WDBJ-7 WJZ-13 WFBM-6 WBRE-28 WINR-40 WLWT-5 WFIL-6 KYW-3
 WCHS-8 WLWI-13 WRC-4 WNEP-16 WDAU-22 WSYE-18 WENY-36 WBJA-34
 WSKG-46 WVIA-44 WANE-15 WSBT-22 WKJG-33 WKBD-50 WTVS-56 WXON-62

6-25 WJZ-13 WHTN-13 WCAU-10 WBNS-10 WTOP-9 WGAL-8 WDTV-5 WLWT-5
 WFIL-6 WCHS-8 WRC-4 KYW-3 WFBM-6 WSBT-22 WKBD-50 WOOD-8
 WDAU-22 WINR-40 WDHO-24

6-27 Es KLNE-3 KNOP-2 KOTA-3

6-28 Tr WJZ-13 WHTN-13 WDTV-5 WRC-4 KYW-3 & Scranton, Elmira, Det.

6-30 Es KFBC-5 KOA-4 K WGN-2 Denver, Colorado

Tr KFJZ-34 WUCM-19 WMTV-15 WVTV-18 WKNX-25 WDTV-5 WCYB-5 WBBM-2
WMAQ-5 WLWT-5 WOOD-8 WJZ-13 WHTN-13 WGAL-8 WCHS-8 WFIL-6
 WRC-4 KYW-3 WCAU-10 WDBJ-7 WSBT-22

7-2 Tr "Best overall VHF-UHF DX day ever in Dunkirk."--Bob Seybold
WTIC-3 WNEW-5 WTVR-6 WABC-7 CFCF-12 CKSO-5 WNHT-17 WUTR-20
WGAN-13 WKOW-19 WSMW-27 WCBS-2 WMAR-2 CBFT-2 WBBM-2 WKZO-3
 WBZ-4 WRC-4 WNBC-4 WCYB-5 WDTV-5 WTTG-5 WMAQ-5 WPTZ-5
 WLWT-5 WFBM-6 WFIL-6 WRGB-6 WNAC-7 WMAL-7 WPBN-7 WJAN-17
 WHIZ-18 WLEX-18 WCDC-19 WXIX-19 WUCM-19 WATR-20 WHP-21 WKEF-22
 WCNY-24 WKNX-25 WSWO-26 WKYT-27 WTPA-27 WHNB-30 WRLP-32 WIMA-35
 WLVT-39 WHYN-40 WKTV-41 WBSA-43 WEDW-49 WEKW-52 WEDN-53 WKBG-56
 WBGU-70 WSBK-38 (Bob reports 161 stations seen that day--7/2/70)

7-1 CBOFT-9 WRC-4 WNAC-7 WCBS-2 WBBM-2 WKZO-3 KYW-3 WDTV-5
 WCYB-5 WMAQ-5 WLWT-5 WFBM-6 WFIL-6 WMAL-7 WGAL-8 WCHS-8
 WOOD-8 WTOP-9 WCPO-9 WCAU-10 WBAL-11 WJRT-12 WJZ-13 WZZM-13
 WHTN-13 WLWI-13 WANE-15 WCDC-19 WHIZ-18 WJAN-17 WKNX-25 WUCM-19
 WCUM-14 WSBT-22 WPTA-21 WBGU-70 WIMA-35 WEHT-25

7-2 WJZ-13 WHTN-13 WCAU-10 WENY-36 WBJA-34 WSKG-46
 WJZ-13 WHTN-13 WCAU-10 WBNS-10 WTOP-9 WGAL-8 WDTV-5 WLWT-5
 WFIL-6 WCHS-8 WRC-4 KYW-3 WFBM-6 WSBT-22 WKBD-50 WOOD-8
 WDAU-22 WINR-40 WDHO-24

7-3 WHTN-13 WRC-4

7-5,6,7 WUCM-19 WKNX-25 WDHO-24 WGTE-30 WKBD-50 WTVS-56 WXON-62 WHIZ-18
 WTAP-15 WSBT-22 WANE-15 WPTA-21 (in all three days!)

7-5,7 KYW-3 WKZO-3 WRC-4 WLWC-4 WLWT-5 WDTV-5 WFIL-6 WDBJ-7
 WCHS-8 WGAL-8 WHTN-13 WJZ-13 WFBM-6

7-7 Es KNOP-2 KWGN-2 KCKT-2 KVOO-2 KDLO-3 KOTA-3 KLNE-3 KARD-3
 KFDX-3 KDUH-4 KOA-4 KHAS-5 KOCO-5 KDSJ-5 KOTV-6 KPLO-6

(161 stations on oneday must be some kind of record. I haven't seen that many in 15 years. Time and space do not permit complete identification of all stations in Bob's report, but I will identify some of the lesser known ones below. dp)

WJAN-17	Canton, Ohio	KFJZ-34	Fon du Lac, Wisconsin
WHIZ-18	Zanesville, Ohio	WWTV-9	Cadillac, Michigan
WUCM-19	University Center, Mich.	CKWS-11	Kingston, Ontario
WATR-20	Waterbury, Connecticut	WDBJ-7	Roanoke, Virginia
WEKW-52	Keene, New Hampshire	WNHT-17	Schenectady, New York
WEDW-49	Bridgeport, Connecticut	WKOW-19	LaCrosse, Wisconsin
WEDN-53	Norwich, Connecticut	WSMW-27	Worcester, Massachusetts
WBGU-70	Bowling Green, Ohio	KDSJ-5	Lead, South Dakota
WDTV-5	Weston, West Virginia	CBOFT-9	Ottawa, Ontario

Mitch Donock, 2921 Brinkley Road, Oxon Hill, Maryland 20031 (EDT)

6-7	Es	1900	<u>KPRC-2</u>	Houston, TX	6-29	Tr	2130	WTAR-3	Norfolk, VA
		1900	<u>KIII-3</u>	Corpus Christi	7-1		2310	WRDU-28	Raleigh, NC
6-11		1900	<u>KTBS-3</u>	Shreveport, LA			2312	WTVD-11	(250 miles)
		1900	<u>KTAL-6</u>	(1,070 miles)			2313	WTAR-3	Norfolk, VA
		2000	<u>KQTV-2</u>	St. Joseph, MO					(Richmond stations like locals)
		2030	<u>KARD-3</u>	Wichita, KS			2320	WAVY-10	Norfolk, VA
		2030	<u>KATC-3</u>	Lafayette, LA	7-2		0150	<u>WFIL-6</u>	Philadelphia
6-13		1830	<u>WBRZ-2</u>	Baton Rouge			0200	<u>WCAU-10</u>	(125 miles)
6-15	Tr	0145	<u>WAVY-10</u>	Norfolk, VA		Es	1600	<u>KATC-3</u>	(1,050 miles)
6-16	Es	1800	<u>KIII-3</u>	(1,430 miles)			1600	<u>WLBT-3</u>	Jackson, MS
6-17		2030	<u>KTBS-3</u>	Shreveport, LA	7-3	Tr	1500	WTAR-3	Norfolk, VA
		2030	<u>UNID-2&3</u>	(several)	7-4	Es	1345	<u>UNID-3</u>	Spanish
6-21	Tr	0105	<u>WTAR-3</u>	Norfolk, VA			1400	<u>WBBM-2</u>	Chicago, IL
		0130	<u>WAVY-10</u>	(150 miles)			1400	<u>KGLO-3</u>	Mason City, IA
6-28	Es	1505	<u>KARD-3</u>	Wichita, KS			1420	<u>WBAY-2</u>	Green Bay, WI
		1540	<u>WEDU-3</u>	Tampa, FL.			1500	<u>KDLO-3</u>	Florence, SD
		1700	<u>KGLO-3</u>	Mason City, IA			1540	<u>UNID-6</u>	"TCR" TP

(Your unidentified "TCR" station may be explained by Gary Olson's FCC News & Data in the July VUD. CMQ network of Cuba now using ICR. dp)

Paul S. Luchter, 568 Rockville Court, Oceanside, New York 11572 (EDT)

6-9	Tr	AM	<u>KYW-3</u>	Philadelphia	6-11	Tr	0610	<u>WFIL-6</u> , <u>WNHC-8</u> , <u>WTOP-9</u>	
			<u>WFIL-6</u>	Philadelphia				to <u>WCAU-10</u> , <u>WHNB-30</u> , <u>WPTI-</u>	
			<u>WNHC-8</u>	New Haven, CN			0730	12, <u>WBAL-11</u> , <u>WJZ-13</u>	
			<u>WCAU-10</u>	Philadelphia		Es	1640	<u>WPBT-2</u>	Miami, FL
			<u>WWBT-12</u>	Richmond, VA		(tent)	to	<u>WDIQ-2</u>	Dozier, AL
			<u>WXEX-8</u>	(tent.) VA			2100	<u>WDCN-2</u>	Nashville, TN
			<u>WTOP-9</u>	Washington, DC				<u>KTBS-3</u>	Shreveport, LA
			<u>WBOC-16</u>	Salisbury, MD				<u>WLBT-3</u>	Jackson, MS
	PM		<u>WTAF-29</u>	Philadelphia				<u>KATC-3</u>	Lafayette, LA
			<u>WPHL-17</u>	Philadelphia				<u>WABG-6</u>	Greenwood, MS
			<u>WKBS-48</u>	Philadelphia				<u>KOTV-6</u>	Tulsa (1550)
			<u>WTEV-6</u>	Rhode Island		Tr	PM	<u>WPHL-17</u>	Philadelphia
			<u>WPRI-12</u>	Providence				<u>WHCT-18</u>	Hartford, CN
			<u>WCNC-40</u>	Wildwood, NJ				<u>WEDW-49</u>	Bridgeport, CN
			<u>WTIC-3</u>	Hartford, CN				<u>WEDN-53</u>	Norwich, CN
			<u>WHYY-12</u>	Wilmington, DL				<u>WTAF-29</u>	Philadelphia
			<u>WHNB-30</u>	New Britain, CN				<u>WKBS-48</u>	Philadelphia
			<u>WATR-20</u>	Waterbury, CN				<u>WATR-20</u>	Waterbury, CN
			<u>WSBK-38</u>	Boston, MA				<u>WLVT-39</u>	Allentown, PA
			<u>WKBG-56</u>	Boston, MA	6-18		2030	<u>WDCA-20</u>	Washington, DC
			<u>WSMW-27</u>	worcester, MA			to	<u>WETA-26</u>	Washington, DC
			<u>WGBX-44</u>	Boston, MA			2330	<u>WMPP-67</u>	Baltimore, MD
			<u>WEDN-53</u>	Norwich, CN		(tent)		<u>WMET-24</u>	Baltimore, MD
			<u>WHCT-18</u>	Hartford, CN				<u>KYW-3</u> , <u>WCAU-10</u> , <u>WPHL-17</u>	
			<u>WEDH-24</u>	Hartford, CN				<u>WFIL-6</u> , <u>WTAF-31</u> , <u>WKBS-48</u>	
			<u>WWLP-22</u>	Springfield				<u>WNHC-8</u>	New Haven, CN
			<u>WEDW-49</u>	Bridgeport, CN				<u>WHYY-12</u>	Wilmington, DL
6-10	Tr	0600	<u>WTEV-6</u> , <u>WNHC-8</u> , <u>WHNB-30</u>					<u>WLVT-39</u>	Allentown, PA
			to <u>WCAU-10</u> , <u>WHYY-12</u> , <u>WPHL-17</u>					<u>WEDW-49</u>	Bridgeport, CN
		0730	<u>WATR-20</u> , <u>WTAF-29</u> , <u>WEDH-24</u>					<u>WHNB-30</u>	New Britain, CN
			<u>WEDW-49</u> , <u>WKBS-48</u> , <u>CBS-21</u>						

(Thanks for your report, Paul. Your report was in pretty good shape. Regular stations should be listed only when first received--new location, station, etc. Chief Engineers seem to be the best prospects for verifications, but I have received them from a variety of positions, dp)

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

5-29 Tr	0125	CFPL-10	London, Ont.	6-11 Es	1745	UNID-2	to 6 and FM
	Es	1305	UNID-2,3,4,& 5	6-21 Tr	2259	CBMT-6	Montreal(0343)
6-1	Es	2030	KETS-2	Little Rock	6-25 Es	2200	UNID-2 WBBM? (2111)
6-2	Tr	0133	KDKA-2	Pittsburgh	6-28	1400	KPRC-2 Houston (3133)
6-4	Es	2100	UNID-2,4	VAFI(2011)		1445	KAUZ-6 Wichita Falls
6-8		2301	KRLD-4	Dallas, TX(4241)		1459	WKY-4 Oklahoma City
6-9		1237	UNID-2			1500	KVOO-2 Tulsa (4124)
6-11		1750	WESH-2	Daytona Beach(4222)		1613	KHTL-4 Superior, NB
		1806	WDIQ-2	Dozier, AL(3221)		1617	KNOP-2 N. Platte, NB
		1829	WTVY-4	Dothan, AL(4344)		1643	KHPL-6 Hayes Center, NB
		1925	WWL-4	New Orleans(3312)		1700	KTIV-4 Souix City, IA
		1930	KQTV-2	St. Joseph, MO	7-6	1829	KMOX-4 St. Louis, MO
		2030	KARK-4	Little Rock(4322)		1931	WMT-2 Cedar Rapids, IA

(Figures behind station locations are VAFI and not mileage figures,dp)

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

5-21 Tr		WKGB-53	Bowling Gr. KY	6-29 Tr	2300	KFVS-12	Cape Girardeau		
		WHBQ-13	Memphis, TN		2305	WEHT-25	Henderson, KY		
5-29 Es	2300	KMID-2	Midland, TX	6-30		WPSD-6	Paducah, KY		
5-30	1300	KRIS-6	Corpus Christi		2200	WLOS-13	Asheville, NC		
		KPRC-2	Houston, TX		2230	WTVC-9	Chatanooga		
		WOAI-4	San Antonio			WDEF-12	Chatanooga		
	1330	KRLD-4	Dallas, TX			WCYB-5	Bristol, VA		
	1330	KVOO-2	Tulsa, OK		2300	WRCB-3	Chatanooga		
	1830	WBAP-5	Ft. Worth, TX		2305	WAAY-31	Huntsville, AL		
		KNID-2	Midland, TX		2307	WEHT-19	Huntsville, AL		
		KWAB-4	Big Spring, TX		2330	WFIQ-36	Florence, AL		
5-31	1900	KGBT-4	Harlingen, TX		2330	WHIQ-25	Huntsville, AL		
	1905	KEFE-2	N. Laredo, Tamp.		2400	WISL-48	Decatur, AL		
6-3	2010	KEFE-2	N. Laredo, Tamp.	7-1	0655	WAAY-31	Huntsville, AL		
	2015	KENS-5	San Antonio			UNID-3	mw KIR-91		
	KRI	KRIS-6	Corpus Christi		2300	WMUL-33	Huntington, WV		
	2100	KPRC-2	Houston, TX			WCHS-8	Charleston, WV		
		KIII-3	Corpus Christi		2310	WBNG-42	Birmingham, AL		
		WOAI-4	San Antonio			WFIQ-36	Florence, AL		
	2230	KXJB-4	Valley City			UNID-17			
		KTCI-2	St. Paul, MN			WMSL-48	Decatur, AL		
6-11		WEAR-3	Pensacola, FL			WAPI-19	Birmingham, AL		
	"TV Nacional"-6		Havana, Cuba	7-2		WAAY-31	Huntsville, AL		
	2030	WTVJ-4	Miami, FL		0700	WHNT-19	Huntsville, AL		
	2100	WWL-4	New Orleans			WBNG-42	Birmingham, AL		
	2300	WKY-4	Okla. City			WBIR-10	Knoxville, TN		
	2305	KGNC-4	Amarillo, TX	7-3		WTVK-26	Knoxville, TN		
	2307	KFDX-3	Wichita Falls			WMUL-33	Huntington, WV		
	2302	KMID-2	Midland, TX			1845	WKYH-57 Hazard, KY(90)		
6-28	2430	KFDX-3	Wichita Falls		7-4	Es	1855	WCBS-2	New York City
		KVOO-2	Tulsa, OK			1900	WTEV-6	Rhode Island	
	1300	KTVC-6	Ensign, KS				WNBC-4	New York City	
	1300	KNOP-2	N. Platte, NB				WNEW-5	New York City	
	1300	KOAA-5	Pueblo, CO				UNID-3	Hartford?	
		KGNC-4	Amarillo, TX				UNID-4	CBC English	
		KCKT-2		7-6			UNID-3	CBC French	
	1430	KOTA-3	Rapid City				CBFT-2	Montreal, Que	
		KTVS-3	Sterling, CO						
		CBWT-3	Winnipeg, Man.						
		CBWT-6	Winnipeg, Man.						
		CKX-5	Brandon, Man.						

(An exciting last month in Lexington for me DX wise. Will miss the open VHF channels. dp)

Ronald J. LeBlanc, 2425 Arizona Dr., Marrero, Louisiana 70072

6-19 Es 1200 TGV-3 Guatemala City Station #114 (1102 miles)
 1215 XEW-2 Mexico City, DF (917 miles)
 1230 YSR-2 San Salvador, El Salvador (1132 miles)
 1545 KMID-2 Midland, TX 6-27 Es 1200 WBAY-2 Green Bay, WI
 1600 KTVK-3 Phoenix, AR 1415 XEW-2 Mexico City
 1605 KPHO-5 Phoenix (1317) Tr 2200 KHOU-11 Houston, TX
 1630 KOAI-2 Flagstaff, AR 2205 KTRK-13 Houston, TX
 1830 KTVS-3 Sterling, CO 2210 KPRC-2 Houston, TX
 Tr 2245 WTOK-11 Meridian, MS 2410 KONO-12 San Antonio
 2405 KPRC-2 Houston, TX 2440 KTBC-7 Austin, TX
 0105 WEAR-3 Pensacola, FL 6-28 0930 KDKA-2 Pittsburgh
 6-20 2340 WEAR-3 (183 miles) 1000 WGR-2 Buffalo, NY
 2343 WJHG-7 Panama City 1130 KSTP-5 St. Paul, MN
 2410 WJTV-12 Jackson, MS 2230 KNOP-2 N. Platte, NB
 2412 WTOK-11 (185 miles) 6-29 1220 KQTV-2 St. Joseph, MO
 6-21 2355 WLBT-3 Jackson, MS 6-30 2330 KOTA-3 Rapid City,
 2400 KTVE-10 Monroe, LA Tr 0145 KNOE-3 Monroe, LA
 2450 KPRC-2 (321 miles) 7-5 Es 1525 KOAA-5 Pueblo, CO
 6-22 2215 WEAR-3 & KPRC-2 1530 KWGN-2 Denver, CO
 6-23 Es 1305 TGV-3 Guatemala 7-7 2100 KOAI-2 Flagstaff
 2340 KTVS-3 Sterling, CO 7-8 0900 XEW-2 Mexico City
 2350 KOAA-5 Pueblo, CO 0910 UNLD-3 Spanish
 2415 WMT-2 Cedar Rapids Tr 2200 KPLC-7 Lake Charles
 Tr KALB-5, KLFY-10, & KPRC-2 Es 2300 KOAI-2 Flagstaff
 6-24 Es 1300 KOAI-2 Flagstaff Tr 2400 KPRC-2 Houston, TX
 2145 KPHO-5 Phoenix, AR 2420 KTBS-3 Shreveport
 2200 KTVS-3 Sterling, CO 7-9 2245 KPMT-12 Beaumont, TX
 2205 KWGN-2 Denver, CO to KPRC-2, KHOU-11, KTRK
 Tr KALB-5, WLOX-13, & WLBT-3 2430 KPLC-7 Lake Charles
 6-25 Es 1100 UNLD-2 "TVE"? Span. KLFY-10 Lafayette, LA
 1115 XEW-2 Mexico City WDAM-7 Hattiesburg
 Tr KLFY-10, KALB-5, & KATC-3 WJTV-12 Jackson, MS

(New additions this month bring Ron's total to 121. He uses a 23" 1968 model Magnavox color set. Antenna is a Winegard CW-2000.)

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

6-12 Es 1900 WEDG-3 Tampa, FL 7-4 Es 1930 WCIX-6 Miami, FL
 6-13 Tr WVEC-13, WAVY-10, WTAR-3 WBRC-6 Birmingham, AL
 7-2 Es KRTV-3 Great Falls, Mont. WREC-3 Memphis, TN
 (first double hop--1630 hrs) 7-8 Tr 0640 WBOC-16 Salisbury, MD
 Tr WTEV-6, WJAR-10, & WPRI-12 WBRE-28 Scranton, PA
 7-3 ? 0930 WSYR-3 Syracuse, NY 0645 WCTI-12 New Bern, NC
 (E-skip backscatter? 200mi) 2015 WEAH-27, WTAR-3, & WVEC
 Tr WXEX-8, WTVR-6, & WWBT-12 2015 WBOC-16 Salisbury, MD
WCVL-23 Richmond, VA 7-9 2345 WGAN-13 Maine (tent.)
 7-4 Es 1900 WRCB-3 Chatanooga 7-10 0606 WPRI-12, WTEV-6, WHDH-5
 7-11 E 1000 KYTV-3 Springfield
 (Total 148 with 3 new) KOTV-6 Tulsa, OK

Thomas Henry (WPE2PSZ), 96 Sturges St., Staten Island, New York
 6-26 Tr WHYY-12 Wilmington, Del. 7-4 Tr 2240 WDHL-17 Phila. 5555R
 7-4 0140 WBAL-11 Balt. 4555R 2250 WIBF-29 Phila. 5555R
 0140 WJZ-13 Balt. 4555R 2250 WBRE-28 Scranton, PA
 0145 WCAU-10 Phila. 5555R 2255 WDAU-22 Scranton, PA
 0146 WFIL-6 Phila. 4555R 2305 WHYY-12 Wilmington
 0215 WTOP-9 Wash. 3444N 2345 KYW-3 Phila. 4554R

FM DX column

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

Deadline: 10th of the
month

Mark L. Lewis 224 Honiton Street Downsview, Ontario Canada

I finally have some FMDX of sorts to report. Last week, I became thoroughly fed-up with my bargain basement receiver, so I decided that something had to be done. Coincidentally, I received a folder from a local hifi shop advertising used eqpt. Thus, I decided to pay them a visit. They had a great selection of Eico's and Dynakits, to name a few. I settled on a Dyna-fm stereo tuner which I got for \$100. I really put it, and the others there through their paces. At any rate, I am now using the dyna tuner hooked up to my old RX, which I'm using as an amp. As an antenna I'm currently using a channel master vhf head atop a 40' tower and turned by a CDR ham rotor. Results have been surprisingly good, for as you may know, I have to contend with some superpower locals, CHFI 420kw, CKFM where I work 200kw, and CHIN is just a stones throw away, with a miserable 50kw of imagemaking power. Despite all of these hinderances, I think that you'll see that in this report, I have gotten some adjacent channel reception. 6/19 we had some fairly weak to good tropes from Michigan. I started DXing about 2200 EDT. 1st ID was WHDL 95.7 new, 107.1 WHLS w/\$ and good mx. Going down the dial: 104.3 WOMC; 103.5 WMUX; 102.5 WGER; 101.1 WXYZ\$; 99.5 WABX \$ o/local WDCX; 98.5 WERE; 99.1 WPMK (Note call change Mark RWW); 98.9 WERT Van Wert, Ohio (NNW of Lima, near Indiana border Mark.RWW); 98.7 WBFG \$; 97.9 WMZK; 97.5 WOTT; 97.1 WWJ \$; 93.3 WRRN Warren, PA; 93.1 WDDS new; 92.5 WBFB; 92.3 WDEE. Are you sure of the good mx Mark, since call change now c&w. 92.1 CKPC\$; 91.7 WUOM. After 0000 things really got hot! 0020 WDET 101.9 w/folk mx; 102.1 WDOK, 92.3 WCUY new saying AN as of 6/29/70. 93.1 WZAK, 0100 WKAR 90.5 s/off, 0110 WHFI 94.7 \$ w/RR, CHIN left air w/XR troubles and logged WMMS 100.7 Cleveland, also WKNR 100.3. 0130 CKLW 93.9, 0145 106.5 acid rock in mono--WXEN? 0149 CHIN back on..... 6/20-21 I logged many of the stations heard before, plus WNOB 107.9\$. I had some luck w/FM Es a few weeks ago, when I was using my old RX. I logged a SS (Spanish speaking) station on 93.3 and IDed 92.3 WCOV AL. I am preparing a DX tape of FM for the convention. I plan to arrive late Friday afternoon after my afternoon show, and leave early Sunday PM so that I can do my Sunday evening show. I hope to see all there. (Mee 2 RWW)

John H. Shannon 478 E. High Street Kittanning, Pa. 16201

Well, chalk up another NRCer who has also become a WTFDAer. HI. I don't really know anything about the format of your column or any ground rules you have, so I will just base this first report on the reports in June V UD. A brief intro. I am 25, and work as engineer, announcer and newsman at WPIT/WPIT-FM Pittsburgh. If anyone copies our FM s/off at 11PM, that's me or my voice on tape doing it every night. I did some FMDX in Jan/Feb. 1969 and logged 38 in 4 states. Then I started serious DXing in April 1970, and since then I have 151/16, plus Ont. and Cuba. I use an ancient TV antenna that defies description (soon to be replaced), an Ameco preamp, and a Knight KG65 tuner. Due to my odd work sked, and other activities, I only get to DX 2-3 times a week, so I miss many good openings. I sure wish I had the time to devote to DX that some members seem to have. June DX totals 38 stations, of which I will list the better ones. Es 6/7 KAYD 97.5; 6/11 1900-2036 WUSF 89.7, KWPM 93.9, WSIU 91.9, WDSU 93.3, KXLS 92.5, WGEA 93.5, KWGS 89.5, KBFL 90.3, also WMTM 93.9 and a Cuban on 90.3 or 90.5; 6/28 1334-1524 KPFT 90.1, KSPI 93.9, KMWJ 89.1, KJRG 92.3, KCKN 94.1, KCUR 89.3. Tropes 6/2 WJER 101.7, WXEN 106.5, WJR 96.3, WBNY 96.1, WXYZ 101.1, WPMK 99.1, WKNR 100.3, WDET 101.9, WSPD 101.5, WNYR 101.3, CHIN 100.7 and CKLW 93.9. (Cont'd)

Frank Holbrook 7211 Chestnut Street Chevy Chase, Md 20015

3

Have been de-emphasising DXing this summer in favor of rowing, sun worshipping and other beach activities! I have checked TV and FM off and on during the weekends when at the cottage and it's always "punk" when I tune the band. Stations logged and reported as follows: 94.9 WPVR Roanoke, Va. ex WDBJ 5/17 1845-2036, hrd occasionally. 6/7 WICO 94.3 Salisbury, Maryland new station logged 0653-0709, a new strong local. 6/19 WDJF 107.9 Westport, CT ex WMMM logged 2333-2359 sometimes noted after WXTC leaves the air. 6/20 WCTO 94.3 in Brentwood, NY ex WGSM logged 0012-0019 s/off, sometimes audible after WICO leaves the air. 6/22 WOWI 102.9 Norfolk, Va. ex WRVC 0540-0604 fairly good on bay. 6/28 KICS 93.5 Hastings, Nebraska logged first FM skip this season 1402-1416. A few veries have been received of late, all the results of fups and all on PPC. WFRE 99.9, WFOG 92.9, WTID 104.5 and WTYD 100.9. Verie total at 552 from 31 states, 3 Provinces as well as Cuba, Bermuda and P.R. Hope things pick up a bit. Have a vacation at cottage this summer from July 17 through August 2nd, so maybe a good report next time!

Frank Merrill, Jr. 10673 Saline-Milan Road Milan, MI 48160

Howdy again from Michigan's most active FMDXer. Thus far this DX season has been a very good one, with about 50 new loggings thus far, as of July 4, which brings up my totals to 625 IDed, or 859 if I count call changes. As long as the skip openings keep up, I'm okay. However, the situation here with all-nighters has now become so very horrible that trop reception beyond 250 miles is almost impossible except on the very best of nights. (Ed note: Frank sent in a list of over 150 stations operating on extended or AN skeds, but for the sake of space, I won't reproduce it here RWW) These are the following NEW ONES logged thus far: EDT \$ is Stereo: 5/10 Fs 1839 KGCC\$ 89.7 Denison, TX rock mx, numerous IDs; 1850 KRID\$ 92.5 Dallas ID thru WMHE; 1913 KBUY\$ 94.1 Ft. Worth TSN w/local wx, not 93.9; 1929 KSEL\$ 93.7 Lubbock "K-Sel" West Texas giant; 2030 KOSU\$ 91.7 Stillwater, OK IDed per telephone call. ERP 220w per VJ5. 2124 KGAF 94.5 Gainesville, TX ID Red River Radio; 2130 KWGS 89.5 Tulsa, OK wx/ID and jazz mx; 2140 KKEG 92.1 Fayetteville, AR w/FM-92 rock, State #30; 2152 KYED 92.5 WHAT IS THIS?? (Perhaps call change from KSYN Joplin, MO Frank? RWW) 2156 KSPR 104.9 Springdale, AR KSPR News. 5/11 1045 WETL 91.9 South Bend w/local wx, ID. 1205 WFDT 106.3 Columbia, City, Ind. w/Whitley Cy ads, now 3kw. 5/16 2004 KFIA\$ 94.5 Scott City, KS w/Evening in Stereo, ID, state #31. 5/20 2100 WRDL 89.5 Ashland, OH rock mx, ID, ex 88.1; 2330 WYSU 88.5 Youngsttwn "Conversation at Chicago". 5/21 0001 WWAC 88.1 Adrian, MI progressive rock, my 5th 10 watter on 88.1. 5/28 1802 WKVI\$ 99.3 Knox, Indiana w/Hamlet State Bank ad; 1914 WAFM 100.1 Angola, Ind. w/Garry Allen show on WAFM MoR. 5/29 Aurora 0405 KQRS 92.5 Golden Valley, MN "KQ News" then progressive rock; 0405 WVNY 92.9 Burlington, VT w/WAKR-FM type ID, State #32. 5/30 EGW 0422 WCWS 91.9 Wooster, Ohio progressive rock, IDed via phone call. ES 1857 KBUC\$ 106.3 Terrell Hills, TX w/San Antonio dragway ad; 1943 KDLK 94.3 Del Rio, Texas w/local ads, rock, my furthest, skip yet. 5/31 Trops 0446 WBIZ 100.7 Eau Claire, WI HI show thru WMMs, ex WEAU; 0458 WDUZ\$. 98.3 Green Bay w/jingle, wx and rock mx. 6/1 EGW 0612 WBBY\$ 103.9 Westerville, OH "Good morning radio" MoR. 6/6 Trops 0628 WLYK\$ 107.1 Milford, Ohio local ad. 6/24 Trops 0205 WHKK 100.9 Erlanger, KY religious, ending mx/wx, first Ky class A; 0247 WIAC\$ 105.9 Nashville, TN mx in \$ to 5. Locals WXYZ 101.1 and WCHD 105.9 each stood by for several hours for unk reasons, otherwise I wouldn't have logged these, and besides WIAC had to fight WPFB from the same direction. Thank you, O Great DX God! (With that I will continue onto my next stencil?????????????)

Shannon Cont'd) 6/7 WWST 104.5; 6/8 CHUM 104.5; 6/12 WCOL 92.3, WLDM 95.5, WMUZ 103.5; 6/14 WGRP 107.1; 6/22 WFPB 105.9; 6/30 WTIO 102.3. I have not started collecting QSLs as yet on FM, but I have most of my stations on tape for my library of IDs. Maybe during July I will get a decent FM antenna system up. If now, I won't have much DX to report, As I have gotten most of the ordinary tropes now, and only a Es session or extended tropes will net any new ones. Till then, very 73 and good DX to all. (Welcome John, and I hope you contribute often. RWW)

Bruce F. Elving 522 North 12 $\frac{1}{2}$ Avenue East Duluth, MN 55805

FMDX has been well above average here in Duluth. Skip 6/11 brought in WAID 100.9 Walterboro, SC; WFAS 93.1 Savannah and WGUS 102.3 Augusta, both GA; WOOO 105.9 DeLand, FL; WQMV 98.7, WKYV 106.7 both Vicksburg, WPMP 99.1 Pascagoula, WFFF 96.7 Columbia, all Miss. Another outbreak of skip for six hours starting at 9AM CDT 6/28 gave me KDLK 94.3 and KWGO 99.5 Abernathy, both TX; KVPI 93.5 Ville Platte; WQXY 100.7, WYNK 101.5 both Baton Rouge and relogging on a new frequency of previously deleted WAFB 98.1, KPEL 99.9 Lafayette, KNIR 99.1 New Iberia, WCKW 92.3 LaPlace, WNOE 101.1 New Orleans, all LA; WQNZ 95.1 Natchez, Miss; WCOA 100.7 Pensacola, FL; WTVY 95.5 Dothan and WRSA 96.9 Decatur, both AL; KRAA 94.1 Little Rock, Ark; WATO 94.3 Oak Ridge, TN. Skip 6/30 gave me KBPO 94.1 Beaumont, TX. As good as skip has been from a quality standpoint, tropes have been better from a quality aspect. On 107.1 during interruptions in WIXK-FM's signal from New Richmond, WI, KDUZ Hutchinson MN and WDMP Dodgeville, WI have been received. On 6/17 KWNT 106.5 Davenport, Iowa and KMAW 95.3 Marquette, IA were rec'd. KASI 107.1 Ames, IA made it 6/28, WHME 103.1 South Bend, Ind 6/29 and on 6/30 was the best day of all when Southern Ontario (out to 650 mi) came through. New stations received were CJOY 106.1 Guelph, CFCA 105.3 Kitchener, CJIC 100.5 Sault Ste. Marie and CKDS 95.3 Hamilton. On 7/2 I received KXRA 92.7 Alexandria, MN and, at 530 miles, KROA 103.1 AURORA, NB. Totals heard in Duluth on FM: 901; verified 803.

Fred McCormack

Des Lacs, North Dakota 58733

June was an enjoyable month for FMDXing. Stations were noted by Es on 9 dates, and by Aurora on 2. The latter was quite a surprise, as it was quite strong for summer. I am looking forward to some tropes in July, as this is my favorite mode of DX, and it occurs so seldom here in ND. DX by date and time follows: on 6/3 by Es KVEG 92.3 @2014 (CDT), WFMH 101.1 @2213 and WGKA 92.9 Atlanta @2302. On 6/4, more Es KIVY 92.7 Crockett, TX @2108, KIKK 95.7@2110, KFMK 97.9 Houston @2111, KCOR 101.9 @2328 and KBER 100.3 San Antonio @2336. Es on 6/9 brought KFKF 92.5 Bellevue, WA @2190; On 6/11 CKGB 94.5 Timmins, Ont@1604 and on 6/13 WSM 95.5 Nashville @1506 and WOUB 91.3 Athens, OH @1616 were hrd. Tropes on 6/14 KELO 92.5 @1046, KLOH 98.7 Pipestone, MN @1052 and KWLM 102.5. Hrd. on 6/15 were WSVS 104.7 Crewe, VA@1128, WOSU 89.7 Columbus, OH@1136, WCLT 100.3 Newark, OH@1139, WNCI 97.9 Columbus @1146, WWVA 98.7 Wheeling @1205 and WHIZ 102.5 Zanesville @1205:30. As on 6/18 produced: KWOA 95.1@0636, WWIA 93.3 LaCrosse @0649, WKWA 97.1 Sparta, WI @0658 (is this a new ID for WCOW? Veri letter refers to WCOW-FM, but I thought I hrd the call as WKWA), WLQL 99.5, KLSS 106.1, KLOH 98.7 @0728, WBIZ 100.7 @0754, WCTS 100.3@0756, KJAM 103.1 Madison, SC @0802, KNWC 96.5 0820 and KEEY 102.1 @0828. Es on 6/23 KNIX 102.5 Phoenix @1414, KBUZ 104.7 Mesa @1415, KRFM 95.5 Phoenix @1429, KOOL 94.5 @1432 and KVMM 93.5 Show Low @1525. On 6/28 ~~KXRA~~ KBPO 94.1 @1156, KRMG 95.5 Tulsa @1201, KIKK 95.7, KNRO 106.9 Conroe @1206, KTRH 101.1 Houston @1209, KOKE 95.5 @1218, KSIX 93.9 @1222, KTBC 93.7 @1231, KEEZ 97.3 @1234, KTFM 102.7 @1237, KEXL 104.5 @1240, KBER 100.3@1302, WWTX 95.3 Corinth, MS @1304, and WJJM 94.3 Lewisburg, TN@1319. Es on 6/29 KBIM 94.9 Roswell @1000, WSB 98.5 Atlanta @1005, WAVO 94.9 Decatur @1007, WJGA 92.1 Jackson, GA @1009. KIZZ 102.1 El Paso @1158. Also on 6/29, by tropes, WIMG 96.3 @1035.

Howington (Cont'd). Last week 7/1 I added a second AJ-15 tuner. Total FM veries as of 7/6 is 445 in 31 states and DC. Best tropes is still KBNO and KODA 99.1 at 1090 miles. See you in Dunkirk.

Albert J. Kopec R. D. 1 Himrod, New York 14842

2/7 new local WRUR 88.5 Rochester, NY at 1900, #302. 2/8 2200 WKSX 101.7 Jamestown, NY. 2/12 CKLW 93.9 Windsor, Ont. @2000. 2/13 WKWK 97.3 Wheeling, WVa @1830 and WLVP 102.3 Franklin, NJ @1930. 3/5 CHEX 101.5 Peterborough, Ont. @2200. EDT now 6/12 WETA 90.9 Wash. DC @2200. 6/23 CHYM 96.7 Kitchener, Ont. @0540. 7/3 WPGC 95.5 Md. @0825, WVNY 92.9 Burlington, VT state #25 0833 and WWSR 102.3 in St. Albans, VT @1200. It's certainly nice to have a holiday off 7/3 and wake up to the best tropes openings in these parts, at least for this reporter, within memory! I spent most of the morning at the TV for a change, which accounts for the meager additions. However, I was very pleased to add the state of Vermont which, until this AM, successfully eluded my best efforts. I've been trying to log WVNY ever since I learned it was on the air. This morning it was in like a local for at least 3 solid hours...even on my car FM radio! Now better than 10 straight hours of Es on 7/4 including 1230-1240 89.1 Radio Bermuda cy. #3. No sign of TV Es activity until a few minutes later. Part of this reception on tape. New local WQIX 100.9 in Horseheads, NY @1300, mostly cw on first day of broadcasting. More Es WDBO 92.3 Orlando @1830, WCSC 96.9 Charleston, SC @1831, state #26, WFOY tent. 97.7 St. Augustine, FL, did not actually hear call, though St. Augustine mentioned. Rpt. sent. Finally WKTM 102.5 in North Charleston, SC @1836 for #313 to my log.

Bill Bens 5575 Spruce Wood Drive Cincinnati, OH 45239

And the skip just keeps on comin! FM Es dates since last report were 7/11, 15, 28 and July 7. Congrats to RWW for hearing his first skip! Rig here is a Fisher FM-200-B tuner with a vertically polarized channel master Stereo Probe Six yagi. Although a few people don't agree, a VP yagi is the best "trick" I've found for DXing, especially Es. In the past month, I've added 5 new states, 2 new Prov. and 1 new cy. 6/4 Trop 0031 WKKD 95.9 IL. 6/6 0748 WDAN 102.1 IL by trop. 6/11 Es 1815 WQXM 97.9 FL; 1900 WFSU 91.5 FL; 1910 WINK 96.9 FL. 6/15 Es This was a real bummer becu I thought I had double hop. At 11:40 the following came right over semi-local WGLM- "This is CHQM stereo in Vancouver (now here comes the fine print) w/congratulations and best wishes to CKX Brandon and the people of Winnipeg..." This was even followed by a CHQM jingle. &%'")" (#'%' Anyways, it still was Prov. #3. At the time, only traces of Es was on ch. 3 & 6. 6/23 trop 0058 WKBN 98.9 finally on ET; 2355 KMBR 99.7 MO w/KC Royal BB. 6/24 trop WISN 97.3 WI@0000. 6/25 trop WCIL 101.5 @2331 w/rock. Big Es on 6/28 1029 and for 2 hours after. Radio Rebelde 90.5 Cuba in w/talk/mx pgm w/2 anners., and woman w/agriculter report. Anybody know calls, location or power?? This was cy #3 and probably my best skip catch. Later 11:54 WTCX 99.5; WGNB 101.5 @ 1200 WBRD 103.3 all FL, 1228 KGAF 94.5 TX; KSKU 102.1 KS new state; 1258 KJAE 107.5 CO 1300 KLMO 104.3 CO w/terrible audio; 1330 unkn KPIA 97.3 TX; 1334 KWGO 99.5 TX; 1358 KFBC 97.9 WY new state; 1531 CJOB 97.5 MAN w/\$ cw mx. Winnipegs also noted on 92.1 & 98.3, but not taped. @1540 KSJR 90.1 MN. Some welcome tropes appeared 6/30 from a difficult direction. WLTA 99.7 GA new state @0000 s/off, then again later @2332 the following nite. WSPA 98.9 SC new state nabbed @0003 s/off and again @0434; WSB 98.5 GA hrd on separate ET @0111 and 0449; WBYN 89.7 TN @0505 on RS. 7/1 trop WERS 98.3 IL @0003 ET? 7/2 trop 2251 WJPA 95.3 PA w/nx; 2300 WBBW 93.3 OH; 2301 WNPQ 95.9 s/off. 7/7 Es 1531 CFMQ 92.1 SASK new prov @1246. Sounded like they were off the air from 1516-1531. 1400 KDSU 91.9 ND w/opera. Totals 524.

Merrill (Cont'd) 6/24 0346 KWKI 93.3 Kansas City, Mo. "Quickie" radio - R&B soul music. 6/27 Trops 0127 WKKD 95.9 Aurora, Ill. "Golden Sounds of WKKD-FM" easy music. 6/28 Es 1421 KKLS\$ 92.5 Oklahoma City, OK MoR; 1430 WFAA 97.9 Dallas brief ID thru WMZK; 1434 KHOW\$ 95.7 Denver ex KMYR "K-How Mini-book regatta"; 1444 KLOV\$ 102.3 Loveland, CO Mentioning listening in L-Lov land MoR; 1447 ?? 93.1 What this?? KWNS Kansas City Royals BB; 1455 KNTO\$ 95.1 Wich. Falls, TX RR, then TSN mx; 1503 KFNBS\$ 101.9 Ok City local wx; 1505 KRAV 96.5 Tulsa "89 degrees on KRAV, then rock; 1510 KRSL 95.9 Russell, KS local ads; 1522 KCRC\$ 96.9 Enid ad for Larned A&W; 1551 KANS 96.7 Larned ~~XXXXXXXXXX~~ (oops..my fault RWW) KCRC local ad, then local BB, KANS w/A&W ad, 1613 KRDO 95.1 Colo Spgs "Stereo 95.1", background mx. 6/30 Trops! 0056 WCCW 92.1 Traverse City, MI s/off; 0127 CKY\$ 92.1 Winnipeg rock oldies, perfect ID @0134; 0203 CFRW\$ 94.3 Progressive rock, best trop catch; Es 2158 KMTY\$ Clovis, NM KMTY Community Calendar, MoR State #33; 2202 KMWU 89.1 Wichita, KS Classical mx, ID. (ERP listed as 220w RWW) Trops again 2330 WSMC\$ 90.7 Collegedale, TN "NooBurne" Clx mx, perfect signal. 7/1 Trops 0128 WPAD 96.9 Paducah, KY s/off thru WLAV/WGR. I consider myself very lucky on 6/24-30. If Bill Bens had not called me on those two dates to tell me what was up, it's very possible I would have missed those two very cool long-haul openings, because on both dates none of the indicator stations within 300 miles really showed much of an improvement. Both times he called me because he was getting long haul stations on 99.7, KMBR on the 24th, WLEA on the 30th. Very odd how he was getting Atlanta on the 30th, while it worked in the reverse direction for me. CKY and CFRW have set up a new trop distance record for me of 830 miles, and I consider it very unlikely that any greater trop reception will ever enter my Milan logs because by next season I am very likely to be living near Toledo, therefore retiring my Milan logs into antiquity. I will cut my report here, while awaiting the remainder of the season, particularly trop, to see what else I may be able to add. I would like to retire my Milan log at 700, not counting call changes, but it may not be possible. Best of DX to everybody, and 73's to all. See you at Dunkirk. (Ed note: KYED 92.5 listed actually was ex KFMZ Beaumont, TX. RWW)

Carlton Howington 13880 Greenland Ave. Uniontown, Ohio 44685

5/10 KMFA 89.5 @6:25P, KGCC 89.7 @6:30 Underlined are new, KEBC 94.7 @6:35, KMWU 89.1, KCUR 89.3, KANU 91.5, KJRG 92.3, KITY 92.9, KTXN 92.1, KIKK 95.7, KCRC 96.9, KAWB 95.3 and KFIA 94.5 at 10PM (All at the same time?RWW) 5/11 WDYN 89.7 at 7:30P, both WKSU/WOSU off. 5/14 WVCC 101.7 @7:30P. 5/16 KFIA 94.5 again, KAVI 95.9 @6:30P, KRDO 95.1, KWBE 92.9, KICS 93.5 @7PM, KHOW 95.7, KCMS 102.7, KSVP 92.9 #1 from NM @1370mi, KBAD 92.1 @8:10P and KLDG 95.7 @8:20PM. 5/19 WONC 89.1 @0130, KGRC 92.9 @0205, WEXI 92.7 @0215, WNUR 89.3 on AN, WCPA 93.5 @0600. 5/30 KLEF 94.5 @1PM, KIKK 95.7, KROB 99.9, @1:15P, KMFM 96.1, KMFA 89.5, KITY 92.9, KUT 90.7, ZBM 89.1 8PM. 6/3 KMFA 89.5@8PM, KITY 92.9, KNFM 92.3 @8:15PM. 6/8 WFMS 95.5 s/off @0134. 6/11 WGEA 93.5 @7:19P, WIRB 96.9 @7:30, WEZY 99.3 @7:45, WJAX 95.1 8PM, WFTW 99.3 8:02. 6/16 WVSH 91.9 @1200. 6/20 WLGN 98.3 8:17A between locals WTOF 98.1 and WERE 98.5. 6/23 WSIU 91.9 11:45P, WFNY 92.1 11:50. 6/24 WAPI 94.5 @0015, WTMB 98.9 0100, KMBR 99.7 0120 for a 720 mile trop, WDYN 89.7@8:30, WKES 88.9 0900. 6/28 KNFM 92.3 1PM, KMFA 89.5, KPIA 97.3 1:15, KMTY 99.1 @1:30P, KCWM 99.5 & KWGO o/WGAR 2PM, KWXI 97.1, KXIT 95.9 1:45P, KOSY 101.1, KFNBS 101.9, KHOW 95.7, KAVI 95.9, KSPI 93.9 @2:48P. 6/29 WKUZ 95.9 10P, WHMD 91.5 10:30P, WWSA 89.9, WCCW 92.1 11P, WLEW 92.1...7/2 WFYC 104.9 7:30A, WJML 0800, WTHM 103.1 0830, WOAP 103.9 0900, WYON 101.3 o/WNCO 0900, WVMO 98.3 0945, WTGN 97.7 5:05P w/local WAKR only 7 miles away. WSPO 94.7 was so strong they had a het on 89.5 @5:30P. Bignews here besides Es is the Heathkit AJ-15 tuner and I finally put up two FM yagi on my 90' tower. Both are 21' booms totalling 18 elements.

The June 8-July 7 period was a mixed blessing here. FM Es was below the May totals, and erratic. Tropo was substantially better than May, however, so one offset the other. Added 115 new FM stations to log in this period (vs 121 in May period) but Only Rhode Island as a new state. Lost the giant FM antenna array in a tornado on 6/11, but had it repaired and replaced by the 14th. 6/10 0644 WEKZ 93.7 WI on MS, 0725 KICS 94.5 350m. on tropo. 6/11 1525 a tornado aloft (but not very aloft!) sucked half of the giant FM array into the next county, leaving the remainder pointing down at a 40 degree angle! 1913-2205 Naturally, with the antenna half gone and the rest in questionable shape, there was a pretty fair Es opening. A quick trip to the tower top rewired what was left of the system and the following were logged: WLVI 93.7, WHIM 94.1 (1st RI), WINE 95.1, WFCR 88.5, WHYI 93.1, WTTT 95.3, WLVG 92.1, WROR 98.5, WSYR 94.5, WYZZ 92.9, WHCU 97.3, WRPI 91.5, WVBR 93.5, WETA 90.9, WCST 93.5, WATZ 93.5, WLEW 92.1, WGHN 92.1, WIAA 88.3, WVWC 88.9, WAMU 88.5, WFMM 93.1 and WPGC 95.5. The Boston, Rhode Island and several of the Conn/Mass. stns were 1400 miles and more. Spent much of the opening sitting on NH, VT and Me. channels to no avail - and cursing tornados! (also to no avail.) 6/14 1150-1220 Es to So. Calif. area including KOWN 92.1, KECR 93.3, KOGO 94.1, KLRO 94.9, KFMX 96.5, KSEA 97.3, KPRI 106.5, KSDO 103.7, KBKB 101.5 and KITT 105.3. 1315-1320 Es to KBBY 95.1 Ventura, CA. 2035-0100 Tropo so. including KIKK 95.7, KTBC 93.7, KUT 90.7, KMFA 89.5, WTAW 92.1, KPFT 90.1 back on the air after a dynamite explosion, KITV 92.9, KLF 94.5, KTFM 102.7, KQUP 102.9, KLYX 102.1; all in the 350-500 mile range. 6/15 0630-0745 tropo to S and SE in 350-500 miles range including KVPI 93.5, KPFL 99.9, KSMB 94.5, KPIC 99.5, KZAK 93.3 and KDBS 100.3. 6/16 0630-1100 more tropo S including KHCB 105.7 (420 m.), WACO 99.9. 6/17 0720-0830 KEBE 106.5, WHBQ 105.9 and others, plus above mentioned. 2110-0100 KMMK 94.1, KMYO 95.7, WMC 99.7 others to east. WDBL 94.3 in Springfield, TN for fair bit of 550 mile class A tropo. KGMR 100.3. 6/18 0630-0830 KSPL 95.5, KAWB 95.3, KIKK 95.7, KBFC 93.5, WCPC 93.3 Houston, MS 475m. and others. 6/21 tropo to NE w/KCMW 90.9, KCFM 93.7 and old reliable KWWL 107.9 (550m). 6/22 tropo to N/NE 1915-2215 w/KDCR 91.3, KCIM 93.7, KICD 107.7, KWWL and other Iowa stations in. 6/23 0500-0730 tropo to N and NE w/KGRC 92.9, KCFM 93.7, KSI 92.1 in. 6/24 0915 KCFM 93.7 in by itself on tropo ducting. 6/25 WHRM 91.9 (786m.), WFN 92.1 and others in Iowa, WI tropo ducting. 2205-0130 KGRV 107.7, WIL 92.3, KSOZ 88.1, KMOX 103.3, KRCH 98.1, WSIU 91.9, KGRC 92.9 on tropo, all in 450-600 mile range. 6/26 WABD 107.9 (550), KUOA 105.9, KWPM 93.9, WRUS 101.1 (550), WMY 101.1, WHBQ 105.9, KNWA 103.7 and others in 300-500 mi. range. 6/27 1950-2345 tropo up slightly N and NE w/KWWL, KCFM, KGRV and others in. 6/28 0815-0830 above good on tropo. 1130-1550 Good Es session into Ohio, MICH, IL, Ind, Pa and others, mixed w/Arizona for good measure. A few of those logged included: KAFF 92.9 Flagstaff, WGUC 90.9, WMNI 99.7, WCED 102.1, WEEP 107.9, WLYK 107.1, WIRE 107.1, WOKU 107.1 (these three in 90 second period on same channel), WGAR 99.5, WRED 101.5, WKBN 98.9, WMMS 100.7, WNNT 100.9, WBFG 98.7, WOUB 91.3, WJFM 93.7, WKJF 93.7, WDBN 94.9, WSP 94.7 right thru local KBBC 94.7, WGAY 99.5, WNAV 99.1, WWD 101.1, WMOD 98.7, WZFM 98.3, WHLD 98.5, WCST 93.5, WSTC 96.7, WCUE 96.5, WVBR 93.5, WWT 92.9, CBM-FM 95.1 (Roger, this one has me; Several weeks ago they were CBF-FM w/FF ID; now they are CBM w/EE rock. Which one are they?) (Dunno Bob RWW) CKDS 95.3, WMIV 95.1, WBLK 93.7, WWWW 106.7, WCHD 105.9, WGMZ 107.9, WPDM 99.3, WPMK 99.1 (ex WSWM Bob RWW), WBCH 100.1, WIAA 88.3, CKAT 93.7, etc. 2001-2011 Es to SC w/WBEU 98.7 IDed. 6/29 1150-1245 Es to Idaho area w/KSNN 93.7, KBGN 94.1, KGVM 99.1 Idaho Falls, is a new one (81kw) w/cw mx, KBOI 97.9 and KBBK 92.3 w/fair signals. 2145-2230 KWWL and KCFM on tropo again; poor signals. (Bob, you amaze me, what with 10 local stations to contend with. RWW) Continued on next stencil.....

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

A few tropo loggings to whet appetite for Es later on in report. 6/16 WCKW 92.3 LaPlace, La; KLEB 94.3 Golden Meadow, La. both 375 mi. 6/20 WLOM High Atop Look Out Mountain 106.5 Chatt. TN @325 mi. 6/23 WLBG 100.5 Laurens; SC @300 mi; then first Es since 6/3 received on 6/28: WBGU 88.1 Bowling Green, OH @1300; WIAA 88.3 Interlochen, MI @1305; CKWW 88.7 Windsor, Ont. time not noted; WCAL 89.3 Northfield, MN; KFYR 92.9 Bismark, ND and KCHF 93.5 Sioux Falls, SD; KLIR 95.9 in Estherville, Iowa @1410; WSPT 97.9 Stevens Point, WI w/ad for Cit. Nat. Bank @1430 and KDSN 107.1 Denison, Ia @1430 also. This began @1250 and closed at 1440. Es on 7/2 @1303 UNID 90.1 w/Iowa wx. (Most likely WOI-FM Walt RWW) On to 7/4 opening @1258 w/UNIDs on 88.1, 88.5 and 90.1 closing @1312. Had to leave and back again @ 1810 and WKAL 95.9 Rome, NY; CHRC 98.1 Quebec @1840; CJFM 95.9 in Montreal w/"Aperitif". Haven't hrd. them since I left Plattsburg, NY in 1957 @1845; Unid in FF 102.7 (CHLT possible? RWW) @1847 and nothing until 1930 when WWSR 102.3 St. Albans, VT IDed. (Walt, they are a new 3kw stn. RWW). This opening closed at 1950. 7/5 Es on chs. 3,4 @0735; ch. 2,5 0800, no IDs. Finally @1405 strong Es on FM, most Mexican, all UNID on 88.9, 89.7, 90.5, 92.1, 97.1, 98.1 and 90.9, all intense, in/out until 1431. (Waldo, check Bob Cooper's column, possible one of his listed. RWW) Had to go, back @1510 and IDed KGNC 93.1 Amarillo, TX @1516; 1520 "Stereo station in Coastal Bend" on 93.9, but I missed call sign. Help from Texas please. (KSIX?). At 1330 KINT 97.5 El Paso and @1340 KTEP 88.5 same city again. Es stayed in until 1710, but no more IDs. All of these openings, strongest was @1405 on 7/5: All were S-5 and audio fidelity of music/voice was EXCELLENT. Even tho strong, was very directional. I was pointed WNW looking for midwest; not until I went due SW did I receive them, so no telling what I missed by not turning SW sooner. The more I think about it, it was about the strangest opening I've ever had. Tonight/7/6 the band is dead. 73.

Dennis ~~XXXXX~~ Smith Santa Barbara, CA.

Summer is here--a bit of rest from school for a while. Home in Wasco a few days in late March, noted no DX, but found another odd signal on my Fisher tuner. KBIG 104.3 IA shows up at 104.9, like past KFAC 92.3 IA at 93.1 KBIG difference is only .6MHz, while KFAC was .8. Odd KBIG sig. is to west like KFAC, real sigs to SE, but slightly more northerly; KBIG mirage is weaker than real sig, but KFAC image is stronger. Now suspect something in RX, but don't know just what. Still doesn't explain XETRA 91.3, but that hasn't reappeared since Mar. 68. So. Calif coast tropo strong since late June thru early July so far. Lots of FMs including Class A 3kws all along coast as far as San Diego area 175 mi. such as KARL 95.9 Carlsbad clear (160) and KOWN 92.1 Escondido weak (180). Trop to Point Concepcion WNW of Santa Barbara involved 10mi plus round trip walk from nearest public road on long deserted beach, hrd most same FMs farther away as far as San Diego (220), farthest Cl.A clear KARL @200 mi. Point Arguello would have been more interesting, as farther north, but in Vandenburg Base. Here in S.B. also have hrd 2 Tijuana FMs on my portable and Don Voegel's stereo car rx, "Radio Moderna" 99.3 mono and brand new (first hrd 2/July) XHOK-FM 100.1 usually IDs as "Stereo Rey" 200 mi. Both ID w/Tijuana tho R.M. never has given call sign; XHOK announces both in Spanish and English. 100.1 is much stronger than 99.3, which may be lkw or less. Best of DX.

Fred Nordquist 302 Sandra Lane No. Syracuse, NY 13212 EDT

FM DX is finally picking up. Totals now at 133 as of 7/6/70. Here's what's hrd: 5/23 WGNR 103.9 Oneonta, NY w/MoR MPX (new stn) 1845. WBUF 92.9 NY w/WDDS QRM decreased due to eqpt. problems 2000. 6/11 1st Es of year on FM w/WNOE 101.1 LA w/cw mx 1938, KBRI 102.3 AR w/cw mx 2014, KGUR 97.5 AR w/Resort ads 2011, KGCC 89.7 TX w/rr MPX 2050, KEFL 93.7 LA w/"EL-FM" ID 2007, KWGS 89.5 OK w/YL annr 2058, UNID 106.1 w/SS talk 2022, my guess is KDNT Denton, TX..can anybody help on this? Es faded out at 2110. Fair tropo on 6/21 WWDB 96.5 Pa w/nx-wx-sports unnn 0001, WWDL 104.9 PA w/s.off 0017, WSOM 105.1 OH w/MoR mx good sig. 0100, CJFM 95.9 Que w/mixxed FF/EE ads 2248. 6/28 Es to SW noted. KFNB 101.9 OK w/wx check L&C @1455, Unn KWGS 89.5 1458, UNID 88.1 in TX/OK area w/class. mx 1451 who? UNID 106.1 again, probable KDNT again 1447. UNID 95.5 L&C MPX probable KRMG OK@1505, KRAV 96.5 OK MoR mx ID @1512, UNID 96.5 o/u KRAV w/SS 1512 who? KCUR 89.3 MO w/YL annr. 1536, KGNO 95.5 KS w/Boot Hill ad @1544, UNID 88.5 in KS area w/class mx 1548 (KIJC KC, MO has 50w, or maybe KNTU Denison, TX w/340w, both new stns. Fred. RWW). Ess fade at 1550. 7/2 Standard FM converter installed in car, just in time to log tropo from Detroit area while on lunch-hour break: WWJ 97.1 MI L&C w/MoR mx 1225 (355m), unnn CFPL 95.9 Ont 1231, WJR 96.3 w/biz nx 1238, WIDM 95.5 w/Sheraton Hotel ad 1250, UNID 88.9 (possible CKWW) w/class. mx 1252, CKLW 94.7 (?? RWW. I thought they were 93.9) rr L&C 1253. Std AM car antenna used for above DX. 7/3 WC DL 94.3 PA w/nx/wx 0900. 20 new stns logged since 5/23, hope it keeps up.

Russ Brown 4100 Lake Shore Drive St. Joseph, Mi 49085

This being my first report, I guess a brief introduction is in order. I'm 22, single and became interested in FM DX in August '69, since then I've logged 280 stations in 16 states. I've a good location on a 100 foot bluff overlooking Lake Michigan, and on many occasions can see the Chicago towers 64 miles distant. Recent DX: 6/28 Es first noted at 0920 w/KINT 97.5 IDed as "The lineup of the stars in El Paso", 1145 KNFM 92.3 TX, then a sudden switch to FIA. 1150 WFYN 92.5, WHMS 92.1 WDBO 92.3 @1200, back to TX w/KWXI 97.1 1214, 1216 WFAA 97.9, 1220 KXYZ 96.5, WTAW 92.1 1225, WVFM Fla. 94.1 w/Orioles BB 1231, KBMF 98.3 TX w/wx 1235, KBPO 94.1 TX strong 1300-1325 when opening died; 6/30 Es began 2030 w/KGNC 93.1 rough o/u semi local WXRT, KD JW 94.1 good 2040-2115 w/MoR, TSN nx; 7/1 tropo good to NW, WWIA 93.3, WSPT 97.9, WLIH 93.5 all noted between 2200-0000; 7/11 Es began w/KBPO 94.1 1025, KBUY TX 93.9@1045; KSIX 93.9 TX ID only at 1059, then brand new KLIS 94.3 Palestine, TX w/wx 1101. Couldn't find a listing for this one anywhere, but call to station netted the fact they are 4 weeks old. KTBC 93.7 actually o/powerful local WJFM 1110, KITY 92.9 o/local WNDU 1115, KOKE 95.5 strng w/cw mx 1118-1130, KWLW 93.9 1145 and finally KSJT 97.5 good 1150-1202 when opening died. (Welcome to the largest FM column in the history of the club Russ, and we all hope to hear from you regularly. RWW)

Random notes of interest: Someone in this issue hrd. an Oriole BB game on 94.1 I believe, note above DX of Russ Brown on WVFM. I am happy that members are turning to me for any questions about call changes, grants of stations, etc. I have tried to keep an accurate listing of what FCC is doing, but then I don't catch them all, as in the case of KLIS 94.3 TX. I don't show even a CP on them! Thank you all for the fine support this month, and now to mail this so as to be sure it makes a prominent spot in VUD. RWW.

Cooper (Cont'd) 6/30 0810-0030 Tropo, N including WNUS 107.5 Chicago 697 mi., KWWL, WJFM 93.7 (816 mi. first time on tropo after having logged them on meteors and Es), KGRC 92.9, KWWR 95.7, KSI 92.1, KTGR 96.7, WBYS 98.3, WMAQ 101.1, WGEM 105.1, KMFL 102.9 and WAUR 107.9 in Aurora (700 mi.). Now what follows is very unusual for several of the stations that will be listed here on Es on the 30th, were logged before and after the Es on tropo. To have two forms of DX into the same area at about the same time is really wierd! 1915-0200 Tropo KWWL, KSI, WAUR, KGRV, KCFM, WNUS, WKRT 93.1, WMBI 90.9, WMBD 93.3, WJFM, WVEE 93.9, KGRD and others. 2005-2130 on Es WLEW 92.1, WJFM, WIAA 88.3, WGHN 92.1, WHSB 107.7, WSTK 105.5 (Bob note freq. City is Woodstock, Illinois w/3kw RWW), WCRM 95.3, WJML 98.9, WNUS 107.5, CKAT 93.7, WKRT 93.1, WLIP 95.1 and WAUR 107.9. 7/1 0555-0830 on tropo, KLEX 106.3, WSJC 107.5 (505 mi.) and a few others incl. KGRC. 7/2 0700-0830 KCFM, KGRV w/good tropo signals. 2355 KWWL fair tropo. 7/5 1256-1445 Es into old Mexico. Not all of the signals IDed, since several did not break for IDs. IDed were XEDA 90.5, XHFO-FM 92.1, XEQ-FM 92.9, XHRSM 91.3 and XEJT-FM 88.9. First four in Mexico City, XEJT in Tampico. 2300-0130 tropo including KWWL, KGRV, WSTU 91.9, KSOZ 88.1, WSAB 94.9, KRCH 98.1, KMOX 103.3, WMBD and WGEM among others. All in 450-650 mile area. 7/6 0730-0900 Many of the above plus WIFE 107.9 and WTIC 105.7 Indianapolis (680 m.), KBOA 98.9, WSMI 106.1 and WHBQ 105.9 among others. And that was it for now.

Dave Janowiak 3661 So. 46th Street Greenfield, WI 53220

7/11 Es noted @1815 tune in. Skip weak to SE area, and very short. Several tentatives plus WTOC 94.1 Savannah, ad for restaurant, WSET 92.7 Nashville w/BB. At 1902 hrd. Baltimore Oriole BB on 94.1. Help? 7/24 improved tropo to Ohio in AM w/relogs of Miamisburg 93.7 and Cinn. stns. 7/25 Noted tropo opening on TV as Cleveland and Erie U's appeared at 1800 tune-in. FMrx turned on about 1830 as opening was about to die, but was able to log have of Cleveland FMers, Toledo and a tentative Erie FMer. All TV/FM stations rcvd. out to almost 500 miles were within a 10-15 degree area only. Left RX at 1930 for publishing at FSD, unfortunately. 7/28 Big Es day on FM started about 1130A as Morrie, Bill. H. and FSD visited. Log is a jumble as I demonstrated V & H advantages on Es between eating and finishing VUD. Ever try to concentrate on DX w/2 TVs, a VHF rx and FM rx going at same time and wife getting mad as dinner is getting cold? (familiar sound around this zoo Dave. RWW) These were hrd between 1200-1400: WOCN 94.9 Miami Beach "These are the sounds of ocean radio, the ocean that brought beautiful mx to Miami". KTBC 93.7 Austin; WFTL 106.7; WPBF 107.9 W. Palm Beach; KRBE 104.1 Houston; KTRH 101.1; KIZ 106.7 Denver; plus many tentatives in FL, TX. Skip often pinned the S-meter as high as 107.9 and local TV/FM stns were briefly wiped out by Es. Skip strong at 1400 when left Rx. 7/29 Improved tropo to NE from 1800-1930. Logged WJML 98.9 Petosky, MI (V polarized) "Northern power network station"; WMRP 105.5 Flint; WCAR 92.3 Detroit; WOAP 103.9 Owosso "mx you know in stereo from Owosso"; WCRM 95.3 Clare, MI. Regulars in 300 mile range to E/NE much improved. 7/30 Tropo at 0525 tune in. WKLR 99.9 Toledo w/RB mx; WAOR 103.5 Bowling Green, 0530 rx off. 7/7 weak Es 1800-1830 to #, no IDs (Canadians). Have had little time to FMDX, but have begun to check a bit more with prospect of improved tropo in July and August, etc. Equipment included Heath AR-15, Finco FM4G 6-element yagi, V polarized at 30', and Finco FM5G 10 element yagi, horizontally polarized at 30'.

Yee ed. has a bit to report, but nothing like above stuff. 6/28 KANU 91.5 Ks @2200 s/off out of blue skip and also WQTC 102.3 WI w/RR. 6/29 WIL 92.3 Mo finally 0025 ID, MoR mx and WMIX-FM 94.1 0625 w/promo for local nx. 7/3 WNDY 106.3 Ind 0932 local ads. Finally 7/9 WFMN 92.5 FL. @700 ID about "Frost free Key West in stereo. Now 331 stations.

THE EUROPEAN SCENE

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

The mean smoothed sunspot count for June was 106.8. Predicted smoothed count for the next six months is: July 96, August 94, September 92, October 90, November 88, December 86.

The period under review has shown a considerable improvement over the previous month. With a lull at the start of July, sporadic E conditions have been good, with a number of sustained openings. Trops have also had their moments, with reports of Swedish UHF stations in the mid-June period. On the 11th July, during an opening toward the USSR, communication was heard, apparently of a space nature, with ground to air and vice versa, mentioning 'Cosmos'. On this day (11th) no report has been seen or heard of a space shot by the Russians. A recording was made and attempts will be made to ID this transmission. This frequency was approximately 46.25 MHz.

- June 16 USSR 01, 02; RAI IA, IB; MT, 01; TVE, E2^x2, 3, 4 + unIDs.
" 17 USSR 01, 02; RAI. IA x 2, IB x 2; ORF E2a, E4: Czech, 01; Romania 02, plus unIDs.
" 19 Trop- NOS, E4
" 20 USSR, 01; Czech 01: MT, 01 + unIDs
" 22 TVE, E2, 3, 4; ORF, E2a, E4: Czech 01, 2 (On to until 0030); WG, E2; plus unIDs
" 23 USSR, 01, 02; WG, E2; RAI, IA; NRK, E2, 3; Swiss, E2; plus unIDs.
" 24 RAI, IA, IB; WG, E2; JRT, E4; + unIDs.
" 26 JRT, E4 plus unIDs
" 27 RAI, IA; JRT, E4; + unIDs.
" 28 ORF, E2a, E4; Nrk, E2, 3; Sveriges, E2, 3, 4; + unIDs
" 29 Ussr, 01,; Rai, IA
" 30 TVE, E2, 4
July 4 RAI, IA, JRT, E3; ORF E2a; plus unIDs
" 5 RAI, IB; JRT, E3, 4; MT, 01?, 02; Czech, 02; TVE, E2, 3, 4; NRK, E2
" 6 ORF, E2a; DFF, E3; Iceland, E3 (NEW), E4 (NOTE- The E3 transmitter was on electronic to until 0002, when it faded)
" 7 TVP, 02; USSR, 01; WG, E2; JRT, E3; RAI, IA plus unIDs. This was a very good opening over many hours, although I missed most due to work. Canary Islands, E3 was reported, and Es into Band 2 TV.
" 11 TVP, 01, 02; USSR, 01, 02; DR (Danmarks Radio), E3, 4, short at 600 mi

The projected Caroline TV was expected to commence on July 1st, on channel 68, at 1800. Nothing was seen, and so far nothing has been received by anyone. The organiser, Ronan O'Rahilly was interviewed, but he could not give an explanation for the lack of signals. DXers await signals on ch. 68 with interest.

Jordan TV is using a new test card on E3 and 6. The Marconi #1 resolution chart is used, with the caption, 'Jordan Television, channels 3 and 6', in Arabic, in the central black area. Test transmission is 1700-1800, programmes 1800-2330, approximately. They have been reported received in West Germany at about 2000 miles.

ORF, Austria, confirm they are using a new electronic test card, as from November last. This very roughly resembles the Marconi #1 if briefly seen.

TVE, Spain, are using a new test card, on the 1st and 2nd chains. As customary, this card is seen no longer than 30 minutes prior to commencement of programmes. The second chain still superimpose the title and details of the accompanying music on the sound channel at the bottom of the test card frame; as indeed NRK are doing, across the lower section of their test card G.

From observations over the past 6 weeks, openings to the Scandinavian countries seem to be lacking this season. The favoured are seems to be to the south-east, at 1000 mile skip, accounting for repeated reception of RAI, ORF, etc.

Good DX,

Roger

FCC NEWS & DATA

GARY A. OLSON
1203 KENTON RD
DEERFIELD, ILL.

60015

J.V.

STATIONS OPERATING (AS OF JULY 1, 1970)

UHF ETV	82
UHF COM	181
VHF ETV	108
VHF COM	510

Total Authorized Stations On The Air 881

New Stations Reported On The Air:

KYUS-TV, ch. 3, Miles City, Mont., NBC, 10.2 kw. reported on the air in May

*KANU-TV, ch. 15, College Station, Tex., resumed operation June 22nd

New Target Dates Reported:

CICA (TV) ch. 19, Toronto, Ont., Sept. 27, 1970

*ch. 47, Peoria, Ill., January, 1971

WFCB (TV) ch. 45, Miami, Fla., due on in August with schedule of religious programs

Stations Reported Off The Air:

WSWO-TV, ch. 26, Springfield, Ohio, left the air June 22

WSUN-TV, ch. 38, St. Petersburg, Fla., has now left the air permanently

Miscellaneous Changes Reported:

WKYH-TV, ch. 57, Hazard, Ky., now an NBC affiliate

FCC COMPLETED ACTION-New Grants

*Plattsburgh, NY, ch. 57, (NY ETV Assn.) 530 kw.

*Springfield, Mass., ch. 57 (WGBH ETV Foundation)

Lincoln, Neb., ch. 45, (Capital City TV) 210 kw.

*Peoria, Ill., ch. 47, (Ill. Valley Pub. Telecom) 558 kw.

*Norton, Va., ch. 47 (Blue Ridge ETV) 245 kw.

*Agana, Guam, ch. 10 (Guam ETV) 27.4 kw.

*State College, Miss., ch. 2 (Miss. ETV Authority) 100 kw.

*Boise, Id., ch. 4 (State Board of Ed.) 27 kw.

Terre Haute, Ind., ch. 66 (Terre Haute Broadcast) 937.6 kw.

FCC COMPLETED ACTION-Call Letters

Call Letter Changes:

WJRJ-TV, ch. 17, Atlanta, Ga. to WTCG (TV)

KMPH (TV) ch. 26, Tulare, Calif. to KTOO (TV)

WNBE-TV, ch. 12, New Bern, NC to WCTI-TV

New Call Letters Issued:

Boston, Mass., ch. 68, WQTV (TV)

*Springfield, Mass., ch. 57, WGBY-TV

*Norton, Va., ch. 47, WSVN-TV

*Ackerman, Miss., ch. 2, WMAB (TV)

* Thanks To: *

* J.J. Rosenberg *

* Chas. Dobbins *

* for *

* supplying *

* data for this *

* column in Aug. *

FCC COMPLETED ACTION-Other Changes Allowed

*WKMJ (TV) ch. 68, Louisville, Ky. ERP to 794 kw. - ant. to 820'

*WCPB (TV) ch. 28, Salisbury, MD., ERP to 710 kw.

WTAF-TV, ch. 29, Philadelphia, Pa., granted authority to run split screen advertising-news programs

*KIXE-TV, ch. 9, Redding, Calif., ERP to 89.1 kw. - ant to 3590'

*WHRO-TV, ch. 15, Hampton Roads, Va., ERP to 1000 kw.

*KBLU-TV, ch. 13, Yuma, Ariz., ERP to 120 kw.

ACTION APPLIED FOR OR REQUESTED

Applications For New Stations:

*Deptford, NJ, (NJ Public Broadcasting) ch. 23, 841.4 kw.

Philadelphia, Pa., ch. 23, (Vue Metrics) 1805 kw.

CENTRAL TV DX

Roger H. Brown
624 Evergreen Ave.
East Lansing, Mich. 48823

August 1970

Next Deadline: August 12

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

We'll change this month's headline from Es to TROPO! The frequency and quality of skip openings has decreased noticeably across this end of the territory but an excellent tropo opening pleased a number of TV DXers with some darned good catches for selected individuals. Bill Draeb added to his 400 plus total; the Milwaukee crew managed a few dandies, and Bill Heusmann found that Steger CAN be exciting...at least for a little while.

Things went well to the East of Lake Michigan too...on into Canada and New York. As you might note from the other columns, this was an interesting opening. Bob Cooper caught probably the best of it first...and as a LONG front moved Eastward, conditions were great then lousy then great all along the path. Bob Seybold notes that he counted 160 plus stations in a relatively short period of time. Indeed, the last few days of June, and the first 3 of July were fun for those who watched!!

And away we go with (again) new stations underlined.

Bill Draeb, Ellis St. R.R. #2, Kewaunee, WI 54216 CDST (16 Jun-13 Jul)

- 6-16 MS 0513 WMAR-2 Balto, WCBS-2 NYC
Tr 0515 WISH-8 Indy, WJW-8 Cleveland
0530 WBNS-10 Columbus
0536 WTRF-7 Wheeling weak then (dig this..)
MS 0537 WTRF-7 again w/ good Video, no Aud.
Also noted by MS, un-id ABC type on
7 at 0533, and un-id IHTP-8 and
RETMA-10 between 0515 and 0530.
Es 1954 WEDU-3 and un-id 4...in for 6 min.
- 6-17 Tr to IL, MI, IN'
- 6-19 Es 2200 KOB-4 NMex, 2309 KGNC-4 TX, 2328
KWAB-4 TX, etc.
- 6-21 MS 0559 WSM-4 Tenn, 0616 KGNC-4, 0618 KRLD-4
- 6-22 MS 0610 WWL-4, 0621 WKY-4
- 6-23 Tr 2200 to South. IL, Iowa, MO, including
KMTC-27, KDUB-40 Dubuque, WTWO-2 Terre
Haute
- 6-25 Tr 0615 KRNT-8 IA, KELO-11 S. Dak, WHO-13
IA,
0623 KOLN-10 Neb, KMBC-9 K City, etc.
- 6-28 Es 0800 WOAI-4, WBAP-5, 0815 KENS-5, 0823
KCEN-6
0902 KACB-3, 1200 KIII-3, KRLD-4 all TX.
1245 KATC-3 LA, 1530 un-id 4 West.
- 6-29 Tr 0555 Vs in IN, Ohio to WHAS-11 KY
1235 Us in IL, to KDUB-40. 1726
on, tropo to IL, OH and further
including, at 1728 WKYT-27
1738 WLEX-18, 1823 WXIX-19, 1922
WKMR-38, WMUL-33, 1946 WKSO-29,
WKLE-46, WLKY-32,
2008 WKHA-35, 2015 WBLG-62,
2102 WKPI-22, mostly all Kentucky
ETVs with distances in the 500
mile plus range.
- 6-30 Tr more of the same, though restrict-
ed mostly to Vs in OH, IN, etc.
- 7-1 Tr more as above including KDUB-40,
KTCI-17 all after 1830.
- 7-2,3,5 Tr to IL, IN, KY, OH, MI
- 7-7 Es 2015 Un-id 2,3; KGNC-4; 2130
KROD-4 Texas
- 7-10 MS 0550 WWL-4, WKY-4
- 7-11 Tr after 1830 to IN, MI, OH and W72
repeating WBAY-2.
- 7-12 Es 1937 Un-id 2+, 4-, 5+, to West.
- 7-13 Tr in early a.m. to OH, KY, MI +
WICU-12 Erie.

Draeb, cont.

"...totals are now 299 VHF, 130 UHF or 429. I keep surprising myself with the new stations I manage to get each month. It makes me wonder what the next ones will be. With the meteor showers coming up I wouldn't be a bit surprised if I could snag a few hi-banders; who knows." (Tnx Bill. William adds these offset observations: WKHA-35 plus. WKPI-22 zero. WBLG-62 zero. WXOW-19 minus.)

Bruce Metzner, 136 Gaslite Square, Madison, WI. 53713 CDST (19 Jun-16 Jul)

6-25 Tr 2030 WNDU-16, WSBT-22 IN
2215 WKBD-50, WTVS-56, WXON-62 Detroit
(340)
2229 WSJV-28 INDIANA.
2245 CPPL-10, London, ONT (425)

6-26 Tr 0730 WTHI-10 Terre Haute (290)
2230 KHQA-7 Hannibal, MO (250)

6-28 Tr 2200 WICS-20 Springfield, IL (240)

6-29 Tr 0023 KPLR-11 St. Louis (320)
Es 0040 KXLF-4 Butte, MT
Tr 0055 KMBC-9 Kansas City, (390)
0107 WKRC-12 Cincy (380)
0115 WTOL-11 Toledo (315)
0136 KMOX-4 St. Louis

7-2 Tr 0040 WTCN-11 Minneapolis (240)
0048 KMSP-9 Minneapolis

7-10 Tr 0037 WDIO-10 Deluth, MN (300)

7-11 Es 1000 WKRK-5 Mobile, Ala.
1030 KPRC-2 Houston

"...seemed like a pretty good month overall. I now have a twin dish set-up with good results. Rockford Us snowfree at 60 miles." (may the wind never blow in Madison, Bruce. Good luck!)

David Janowiak, 3661 South 46th Street, Greenfield, WI 53220 CDST (8 Jun-7Jul)

6-8 Es 2010-2-3 strong at tune in WNW
2029 CHCT-2 Calgary, Alta.
2100 KID-3 Idaho Falls
2135 KTWO-2 Casper
Tr 2200 plus, 200 plus Us, 300 plus Vs improved.

6-9 Es 2145 weak un-id 2-3 to west

6-10 Es 0140 CKSA-2 Lloydminster at tune in til
0220 s. off

6-11 Es 0600 weak un-id 2
0730 KUTV-2, Salt Lake City
1800 WSAV-3, WUSN-2, WLAC-5 at tune in
1900 WWAY-3, KALB-5
2100 WEDU-3, WESH-2
2230 KPRC-2, turned off set.

6-12 Tr 200 mile Us improved. First day without Es after 14 days with rather low quality skip.

6-13 Es 1730 WESH-2, WEDU-3 FL at tune in

6-14 Tr 1100 WMT-2, KROC-10 Minn.
WGEM-10 IL

6-17 Tr to WNW, KROC-10, WSAU-7,
WAOW-9 at 0700
Es 1800 WESH-2 tent at t.i.

6-18 weak aurora on 2-3.

6-19,20 Tr improved. W78AE Sheboygan at 60 miles in almost every day since.

6-23 Es weak 2-3 no ids. at 1800 tune in.
2200 KMID-2 TX

6-25 Tr All Cleveland Us and Vs in perfectly at 1740 tune in. At 1750, Cleveland Us down but watchable. All Eries in. WQLN-54 noted. Left at 1930.

6-27 Tr to Detroit at 2300.

Janowiak, Cont.

- 6-28 Es 0900 KMID-2 at tune in w/ un-id 3
tune out at 1000
1130 at tune in, through ch 5 until
tune out at 1400. Many stations to
S and Sw including WESH-2, KMID-2,
KPRC-2, plus stations in OK City, K
City, Omaha, etc.
Tr KDUB-40 Dubuque received first time
tried, and every day since. Watchable
25% of time at 200 miles.
- 6-29,30 Tr improving to 300 miles plus on U and V.
- 7-1 Tr 2200 rare sudden improvement of WSAU-7,
WAOW-9, WEAU-13. Signals to NW perfect
for 30 minutes.
- 7-2 Tr 0545 WNEM-5 perfect, WTRF-7 Wheeling
fair WBIR-10 Knoxville (520) best trop
opening here in awhile. Many tenta-
tives in 5-600 mile range.

- 7-3 Tr 0800 Maybe best day of session
here but rx on late. Noted Us,
Vs in 300 plus range incl.
WLKY-32.
AU 1900-2100 weak on 2-3 no ids.
- 7-4 Es in and out all day to FL and TX.
- 7-5 Es 1700 KWGN-2 Denver
- 7-6 Es 1730 WCBS-2, WGBH-2, KYW-3.
At tune in
- 7-7 Es 1745 CKCK-2 Regina solid for an
hour. Also, tent. CFQC-1 on
ch 3. Skip weak until 2200.

"...despite 14 straight days of Es, this years DX in WI, IL, IA can be summed up as disappointing. I'd sooner sit in on one good four hour opening in the FM band than 2-3 daily for two weeks of weak 2-3 skip producing the same stations. LB and HB IPAs finished and working well." (Tax for comments Dave. However, I keep remembering how lousy LAST year was and...I can't agree.)

Ferdinand S. Dombrowski, 1311 W. Madison, Apt. 11, Milwaukee, WI. 53204 (13 Jun-13 Jul)

- 6-13 Es 1400 many un-ids 2-3
1600 KDIX-2 Dickinson
1630 CBFT-2 Montreal, PQ
1645 CKCQ-2 Moncton, NB
- 6-25 Tr 1930 WEWS-5, WJW-8 Cleveland
2030 WAKR-23 Akron
- 6-28 Tr 1000 KWVL-7 Waterloo, KROC-10
Es 1000 WESH-2 Daytona Beach
1430 KCKT-2 Gt. Bend (after being w/
Dave J. for 4 hours)
1500 KOOK-2 Billings, KTVS-3 Sterling
Co.,
Tr 2000 KDUB-40 Dubuque + un-ids Es til
0130
- 6-30 Es 2222 KPRC-2 Houston TX
- 7-2 Tr Peoria and LaSalle in well all day
- 7-6 Es 1730 WGBH-2, and tentatives on
2-3 from NE
- 7-11 Es over noon hour, no IDs
- 7-12 Es 2045 tent. KID-3
- 7-13 Es 2000 tent. WTHS, WEDU
- (GUESS I MISSED THE BOAT, AFTER LOOK-
ING OVER DAVE'S LOG. HI, FERDIE.)
- "...didn't miss anything new. For me,
a lousy month."
- 7-3 AURORA WEEKLY ON 2 AND 3. No IDs.
- 7-4 Es @ 1225: WUSN-2 PLUS TENT GA
AND No. CAROLINA
- 7-5 Es @ 1300: KWGN-2, DENVER, COLO.

Gary Olson, 1203 Kenton Rd., Deerfield, IL 60015 CDST (8 Jun-28 Jun)

6-18 Tr 1753 KDUB-40 Dubuque
 1800 KIIN-12 Iowa City
 1830 WILL-12 Urbana
 1930 WKBD-50, WXON-62 Detroit
 1945 WTVS-56 Detroit opening gone by
 2030

6-20 Tr 0530 WTTV-4 Bloomington, IN
 6-22 Tr 0745 WKNX-25 Saginaw, MI
 6-24 Es 2000-2130 no-ids

"CX lousy except for the one UHF opening. Virtually no Es. May be one of my worst..."
 (Can't go along with you Gary. Sure hope you caught late June tropo plus scads of Es)

Bill Heusmann, 3116 Stegamon, Steger, IL 60475 CDST (28 Jun-13 Jul)

6-28 Tr 2245 KOLN-10 Lincoln, NB.
 2251 WHO-13 Des Moines, IA
 2345 KGIN-11 Grand Island w/ 3444 VAFI
 at 580 miles
 (Nice one Bill...RHB)
 2400 KIIN-12 Iowa City

6-30 Es 2046 KGNC-4 Amarillo, TX, tent. KFDX-3
 Tr 2200 WIBW-13 Wichita, KN. audio ID,
 rare video. (another dandy at about 600)

7-3 Au 1930 weak, 2-3-4 faint, short lived

7-4 Es 1900 WWAY-3 Winmington, NC
 2100 WTAR-3 Norfolk, VA.

7-10 Es 0030 KIII-3 Corpus Christi
 Tr 1100 WAVE-3 Louisville. Rarely seen
 here. Mistook for skip!!

7-11 Es 1030 KIII-3, KJAC-4, KPRC-2 tent
 under WBBM
 1041 Un-id 5, tent. KENS under
WMAQ.
 1100 KRIS-6 Corpus Ch on FM
 1130 WOAI-4 San Antonio
 1230 KACB-3 San Angelo (audio,
"KRBC-Abeline"

7-12 Tr 0607 WTWO-2 w/ mod IHTP
 0616 WEWS-5 tent.
 0617 KPLR-11 St. Louis w/mod.
IHTP
 0628 WJRT-12 Flint, MI
 0632 WHAS-11 Louisville
 -645 KMOX-4 St. Louis s/on

7-13 Tr 2100 WMT-2 Cedar Rapids w/
 strength equal to WBBM at
 null point.

"I'm back in Steger for the summer...working on a (yecch) steel mill...I've missed most of the skip but I'm happy to see any kind of DX." (me too Bill. Tnx for the report).

Charles A. Dobbins, 12851 Longacre, Detroit, MI 48227 EST (28 Jun-13 Jul)

6-28 Tr 0545 WTTV-4 Bloomington, IN
 0615 WTMJ-4 tent. 0710 WILX-10
Onondaga

6-29 Tr 0435 WBBM-2 Chicago
 0446 WFBM-6 Indianapolis
 0500 WMAQ-5 Chicago

6-29 (cont) 0510 WLWI-13, 0513 WISH-8,
 0520 WISN-12, 0540 WGN-9,
 0614 WOOD-8, 0620 WITF-6.

7-2 Tr 1032 WUAB-43, 1100 WKBF-61 first
 U.DX.

7-12 Tr WTRF-7 Wheeling

7-13 Tr WKNX-25 Saginaw

"Your total is rising slowly Chas. Keep it up and please watch for those Es!! Also, for Erie, Akron, etc. Us at night."

Rod Louma, 15437 Asbury Park, Detroit, MI 48227 EST (16 May - 18 Jun)

- 5-16 Es 1900-2100 At work at WJBK-2, receiving calls that KCKT-2 over-riding our signals. 5-21 Tr 0015-0100 Pittsburg, Youngstown, Cleveland, Us, Vs all good.
- 5-18 Tr 0130 WGN-9, WBEN-4 5-28 Tr 2000 CKCO-13 Kitchener, CEPL-10
- 5-20 Tr 0900 WZZM-13 WOOD-8, CKNX-8, Wingham, ON. CFPL-10 London 6-3 Es 1855 KOAA-5 Pueblo, 1955 KLNE-3 Lexington, NB, 2005 KRGV-5 Weslaco, and tent KARD-3 at 2100. (YES, "KSN" is Kansas State Network)
- 6-10 Tr 0800 Ft. Wayne Us.

Harold Cooper, 29800 Ann Arbor Trail, Westland, MI 48185 EST (25 May - 25 Jun)

- 5-30 Es 1200 KALB-5 Alexandria, LA 6-10 MS 0509 WSB-2 Atlanta
1330 KBTX-3 Bryan TX 0522 WCBS-2
1730 KIII-3 Corpus Christi
1800 KRGV-5 Weslaco, TX
2030 KATC-3 Lafayette, LA
- 6-1 Es 1800 WEDU-3, St. Petersburg 6-11 Tr 0700 WLKY-32 Louisville (320)
2100 WEAR-3 Pensacola Es 1830 WEDU-3, WPTA-5, WTVJ-4 Miami
Over WWJ-4, 10 miles away!!
1840 WCIX-6 Miami
2000 KATC-3, 2030 WKRG-5
2055 KTVC-6, 2155 KENS-5, San Ant.
- 6-3 Es 1900 KOAA-5 Pueblo, CO 6-12 MS 0507 WCBS-2 NYC
2000 KTVS-3 Sterling, CO
KLNE-3 Lexington
- 6-4 Es 1830 WEAR-3, 1900 WEDU-3 6-15 Es 1200 KDLO-3 Garden City, SD.
1230 KXGN-5 Glendive, MT.
- 6-9 MS 0510 WCBS-2, NYC, 0555 WRC-4 Washington

"...tropo has been up (through 6-25) with Chicagos WSNS-44 and WLFI-18 Lafayette added as new ones."

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

- 6-9 Tr 1000 WANE-15 Ft. Wayne, IN 6-28 Es 0947 KPRC-2, 0955 KMID-2, 0959
WTVJ-4, 1200 KBTX-3, 1259 WKY-4
1330 WBRZ-2, 1400 WBAP-5, 1430
KWGN-2, 1459 KGNC-4, KOAA-5,
1505 KARD-3, 1515 KCKT-2, 1546
KH TL-4, 1630 KDUH-4
- 6-11 Es 1825 WTVJ-4, 1829 WESH-2, 2150 KJAC-4,
KATC-3 6-29 Es 1045 KH TL-4 Superior
1129 KPRC-2 Houston
- 6-13 Es 1705 KPRC-2 Houston, TX 6-30 Es 2146 KCKT-2, 2200 KTVC-6
- 6-15 Tr 2255 WTVS-56 Detroit
- 6-25 Tr 0957 WISN-12 Milwaukee
Es 1900 KPRC-2

(Tnx for report John. Hope you got in on the tropo...will be interesting to note how things went south of the lake on about 7-2 and 3.)

Frank Wheeler, 6589 Wattsburg Rd., Erie, PA 16509 EST (jun)

6-1 Es 1800 KPRC-2 TX

6-3 Es 2125 KCKT-2 Great Bend

6-4 Es 2230 WEAR-3 Pensacola

6-11 Es 1645 WESH-2, WEDU-3,
1815 WKRG-5, 1820 WTVY-4
1858 WCIX-6 Miami
2000 WWL-4, 2030 KCKT-2

6-13 Es 1550 WDIQ-2 Dozier, AL

6-25 Tr 2253 WAND-17 Decatur, IL (481)
2313 WANE-15 Ft. Wayne6-28 Es 1200 KPRC-2, 1315 WBAP-5
1325 KOAA-5, 1328 KRLD-4
1600 KOTA-3 Rapid City
1630 KVOO-2 Tulsa

"...I expect to be at the convention at least on Saturday." (Wish I could be too Frank.
Also...hope to hear from YOU concerning tropo at the end of the month.)

Ray Bell, 413 Burton, Washington, PA 15301 EST (15 Jun-15 Jul)

6-23 Tr 0700 UHF improved to 200 miles plus

6-25 Tr 1230 WSPD-13 Toledo (unusual here)

7-1 Tr 0700 Us better plus WHTN-13 in.

7-7 Es 2200 on 3 and 5, un-id

Mark Lewis, 224 Honiton, Downsview, Ont. EST (Jun-Early Jul)5-31 Es 1510 WDIQ-2 plus others6-3 Es 1929 KOA-4 Denver
1910 KBOI-2 Boise, double hop7-2 Tr us to South and East in very well
to over 300 miles. Saw new
WPGH-53 Pittsburg at 1100, and
WLVT-39 Allentown at 2210. Best
probably WIBF-29 Philly 2236.7-4 Es KTVX-2 St. Louis at 1430, KVOO-2,
WKY-4 at 1930.Roger Carriere, 196 Joseph, Buckingham, PQ EST (June)6-1 Es 1755 WSB-2 Atlanta, 1800 WDIQ-2 Dozier.
2000 KVOO-2, 2030 WEAR-3 Pensacola
Tr 2000 WETK-35 Burlington, VT6-3 Es 1900 KETS-2 Little Rock6-4 Es 2030 WDIQ-2 Dozier
Tr 2200 WCNY-24 Syracuse
2240 WUTR-20 Utica6-7 Es 1000-1200 WVOO-2
Tr 1245 WGR-2 Buffalo6-9 Tr 0730-0900 WNEP-16, WBRE-28, WBJA-34,
WSYE-18, WINR-40. ALL new.6-10 Tr 1900-2400 WUTR-20, WBEN-4,
WVNY-22 Burlington plus KTVI-2
St. Louis on Es.6-11 Es 1600 WESH-2 Orlando
1700 WEDU-3, 1730 WPBT-2
1800 WKRG-5, 1900 WCTV-6
2000 WABG-6, 2030 KTAL-6
1830 WUFT-56-13 Es 1710 WBBM-2, 1730 KSD-5
1800 KQTV-26-14 Tr 1200 WPGH-6 Schenectady,
1300 WKTV-2, Utica6-15 Tr 1100 WROC-8 Rochester
Es 1130 KQTV-2

Carriere, Cont.

6-16 Tr 0700 WNYS-9 Syracuse
0730 WNBF-2 Binghamton

6-17 Tr 0700 WTEN-10 Albany
0730 WOKR-13 Rochester
1130 CHEX-12 Peterborough
0900 WMTW-8 Poland Springs, ME.

6-23 Tr 2000 to 2400 WXXI-21 Rochester.
WNED-17 Buffalo, WUTR-20,
WCNY-24, WVNY-22, WCAX-3.

6-24 Tr 0115 CFTO-9 Toronto
CHCH-11 Hamilton

"...my totals are now 91 stations and 18 states. I have many catches in first week of July." (Can't wait to hear more Roger. Tnx very much for the good report)

Roger H. Brown, 624 Evergreen Ave., E. Lansing, MI 48823 EST (18 Jun- 18 Jul)

6-21 Tr Us better to 200 miles, Chi, S. Bend, etc., in p.m.

6-22 Tr in late evening, WFLD-32, WSNS-44 very good.

6-23 Tr same as above plus WKTR-16 perfect

6-23-26 in Colorado on business, wishing I had a dish and Conrac at 12,000 feet in Estes Park.

6-27 Es 1025 KMID-2, 1100 KPRC-2,
1130, KRLD-4, 1200 KTBS-3 tent.
1230 WEAR-3 Pensacola on V ant.
1330 WKY-4, KATC-3, 1400 KJAC-4
1500 KCKT-2 Great Bend
1600 KDUH-4, KTWO-2. All gone by 1630

6-29 Es 1100 KPRC-2 w/ weak CCI to ch 4
gone on return at 1235
Tr 1600 WEAU-13 Eau Claire and have I waited a long time for that!!
1700 WAOW-9 Wausau, and WSAU-7
CCI from west on 2,3,4,5,7,9,11,12,13 plus WTV-18 and KFIZ-34 very good. Everything weakened as the evening progressed.

6-30 Es 1900 KTWO-2 Wyo., then many to W and SW. Bob Cooper called noting Us in to Chicago and FM to Grand Rapids. Spent much time waiting and watching but saw only perfect WTV-18 and Chicago.

7-1 Tr condx improving late in evening to NW (Cadillac, Traverse City, Etc.)

7-2 Tr 0100 CKNX-8 Near perfect (Wingham) CCI from suspected CKSO-1 on ch 3. Also, Toronto, Hamilton in.
0535 WHEC-10 Rochester (320)
Toronto 9 near perfect.
0700 WSYE-18 (380) 0800 WNEP-16 (460) WDAU-22 (460) WBRE-28 (465) WBJA-24, WINR-40 (420)
1100 Binghamton at 420 miles still in. Erie perfect at 1130 at 220 miles.
1230 Erie Us still in but fading.
2355 WKEF-22 Dayton
2400 WXIX-19 Cincy plus others to S.

7-4 Es 1203 WSB-2 Atlanta plus CCI to 5

7-7 Es 2131 at tune in, un-ids 2,3
2200 KLNE-3 Lexington
KMTV-3 Omaha both through local WKZO-3 on V ant.
2205 KNOP-2, 2230 KOA-4,
2300 KWGN-2. Gone at 2310.

7-14 Es 1800 Un-id ch 2, tent N. Car.

That's about all I have for this month's reporting period. Note again the days tropo was especially good in various areas. This was a hairy one with conditions changing rapidly. Should teach everybody to expect ANYTHING. Tropo was in again to Scranton on 7-18. My DXing has been limited by too much socializing, etc., but that's SUMMER for you. I hope YOUR summer is in the process of being a good, healthy, DX filled one!! 73s...ROG BROWN

WORLDWIDE TV-FM DX ASSN.
SERVING VHF-UHF DX ENTHUSIASTS
P. O. BOX 5001 HARBOR STA.
MILWAUKEE, WI. 53204, U.S.A.



THIRD CLASS
RETURN REQUESTED

Albert Lopez 5
A.D. #1
Amrod, New York
14842