

38-TV-5

Sunspot counts now being sent by Henry Gac of Detroit, (from SBC) March 156 52 92.4 122 April 48 81.0 May 157 80 128.5 June 150 87 114.5 July 152 26 97.3 August * 33 78 September 189 120.7 Oktober *

(*mot available at press time.)

VUD is the official monthlpublication of the WORLDWIDE TV-FM DX ASSOCIATION. Published about the first of each month at Milwaukee, Wisconsin (USA). Address all correspondence and make checks payable to the club at Hq:

Box 5001, Milwaukee, WI.53204 Dues \$3.50 worldwide in US funds; Samples 30¢ or 2-IRCs worldwide.

Our "art department" wasn't too active this month, except to suggest a future cover for a planned article on exposing false and misleading advertising claims in antenna ads.

Every now and then I hear of someone not receiving a Digest or 2, (as I mentioned last month), and hence I am taking steps to eliminate this. In attaching the labels and stamps last month, I noticed that they do not adhere as strongly as I wud like, so I attached a piece of Scotch tape to each label as a precautionary measure. I also added the notation "return requested" in case the Digest is undeliverable. I am now positive of the disposition of every VUD, hence duplicate copies of missing bulletins shud not have to be provided free after this without sufficient reason. It can become a nuisance as well as an added expense when I am suddenly informed that so-and-so hasn'y received a VUD since April and didn't write Hq becuz he thought

WTFDA was defunct without notice.

So with extra care now, all undeliverable VUDS will be returned to Hq; hence, they are presumed delivered if they are not returned to Hq.

There have been some unfavorable comments about the durability of the color paper we use. We have enuff on hand to last 2 more VUDs but shall investigate finding better quality paper.

A cover was unexpectedly received from Bill Heusmann recently, but did not turn out quite as well as expected. However we greatly appreciate the time and effort, and its still much better than former covers. Lack of time again has prevented typing a "polarization" article

OUR STAFF:

by Joe Gragg, and the VHF column was typed only becuz it is so important at this time. Others wud have given up by now but I still hang in at HQ. Gary Olson marvels that I had the time in the past year but it is becoming increasingly worse. Gary's help is much appreciated at HQ but I'm very pressed for time and the situation will deteriorate with the upcoming Christmas rush at the post office where I work. We work 10 hours a day now, and in Dec. we will be workink 7 days a week, as much as 12 hours a day. To top it off, I have a series of 4 tests to pass or I lose my job; I flunked the 3rd in Oktober and if I don't pass it by 21 Nov. I'm out of work. The December and possibly January VUDs will undoubtedly be late &/or small unless the burden is relieved considerably here at HQ. I'm already a month or so behind on mail so if you haven't heard from me of late that is why.

Hq/exec/publisher...F. Dombrowski FCC news......Gary Olson CCI column Gary Olson Contest editor Bill Heusmann European Scene Roger Bunney FM news..........Roger Winsor Techno/Corner D. Janowiak Propagation Dennis Smith

Western TV-DX Dennis Smith Eastern TV-DXI. S. Goldman ANARC-Scope Ambrose Maxim

Public Relations:

Curt Webber and Ambrose Maxim

sincerely & 73s, Ferdinand Dombrowski Jr.

GARY A. OLSON 5901 W. BROWN DEER RD. APT. #107 BROWN DEER, WIS. 53223

ATIONS OPERATING (AS OF SEPT. 30, 1968)

Commercial FM Educational FM

Total Authorized Stations On Air

FCC COMPLETED ACTION

New Grants:

Tuscola, Ill., (F. W. Sieobid) 93.5 mc., 3 kw. *Dennison, Tex., (Grayson City-Jr. College) 89.7 mc., 28.5 kw. New Braunfels, Tex., (Comal Broadcasting Co.) 92.1 mc., 3 kw. Burlington, Vt., (N.Y. Broadcasters) 92.9 mc.,

Bangor, Maine, (Univ. of Maine) 90.9 mc., 13.35 kw.

Uniontorn, Pa., (Warman Broadcasting) 99.3 mc., 3 kw. Due West, S.C., (Erskine Gollege) 88.5 mc., .0063 kw. Erwin, Tenn., (WEMB Inc.) 103.9 mc., 3 kw. Mena, Arkansas, (Mena Broadcasting) 101.7 mc., 3 kw.

Dunnellon, Fla., (Rainbow Communications) 102.3 mc., 3 kw. Saginaw, Mich. (Clark Broadcasting) 107.1 mc., 3 kw. Hannibal, Mo., (Great River Broadcasting) 92.9 mc., 96.8 kw.

*Moorhead, Minn., (Concordia College - St. Johns Univ.) no freq.listed *Marshall, Mo., (Missouri Valley College) 88.7 mc., 10 w. *Teaneck, N.J., (F.Dickinson Univ.) 89.1 mc., .55 kw. share timers *New York, N.Y., (New York Univ.) 89.1 mc., 8.3 kw. share timers

*Blacksburg, Va., (Virginia Polytechnic Inst.) 90.7 mc.

Hardinsburg, Ky., (Blancett Broadcasting) 94.3 mc. - Initial Decision New Orleans, La., (Loyala Univ.) no freq. listed - Initial Decision Miama, Fla., (Miami Broadcasting) no freq. listed - Initial Decision

Winnsboro, La., (KMAR Broadcasting) 95.9 mc., 3 kw. Salem, Va., (WRIS Inc.) 93.5 mc., 3 kw.

Lake City, Fla., (Deep South Broadcasters) 94.3 mc., 3 kw. Belevidere, Ill., (Belvidere Broadcasting) 104.9 mc., 3 kw.

Oswego, N.Y., (Stat Univ. of New York) 89.9 mc., 41 kw.

Call Letter Changes: WFKO (FM) Kokomo, Ind. now WKI (FM) KWEB-FM, Rochester, Minn. now KNCV (FM) WCBM-FM, Baltimore, Md., now WMAR-FM KPOJ-FM, Portland, Ore. now WXEN (FM) WJWL-FM, Georgetwon, Del. now VSEA (FM) KATT-FM, Sacramento, Calif. now KRBT-FM KBMW-FM, Breckinridge, Minn now KKWB-FM WKAU-FM, Kaukauna, Wis. now WVLX (FM) KUZZ-FM, Bakersfield, Cal. now KBBY (FM) WAGR-FM, Lumberton, N.C. now WJSK (FM)

WJMX-FM, Florence, S.C. now ISTN (FM)

WHK-FM, Cleveland, O., now MMS (FM) New Call Letters Issued:

Angola, Ind. (J.Chase) WJCC (FM) Springdale, Ark. (A. Johnson) KSPR (FM) Merrill, Wis. (N.Central) WXMT-FM Hibbing, Minn. (Hibbing B-Cst) WIFG-FM Cleveland, Miss. (T.P.Conguista) WDSK-FM

*Indiana, Pa., (Ind. Univ. of Pa.) WIUP-FM *Chattanooga, Tenn. (Vorld Chris. Radio) VVMS-FM *River Falls, Wis. (Wis. State U.) WRFW (FM)
Roseville, Calif. (KPOP Radio) KPOP-FM Cordele, Ga., (S.E. B-Cast) MIJM-FM Waco, Tex., (K!TX B-Cast) KWTX-FM

Hawkinsville, Ga., (Tri County) MCEH-FM Cynthiana, Ky. (CYN Radio) CYN-FM

WSFM (FM) Birmingham, Ala., now WDJC (FM) KCRA-FM, Sacramento, Calif.

now KCTC (FM) WAEZ (FM) Miami Beach, Fla.

now WOCN-FM WLOE-FM, Leaksville, N.C.

now WEAF (FM) WRKT-FM, Cocoa Beach, Fla.

now MKBE-FM

KCLE-FM, Cleburne, Tex., now KFAD (FM)

THANKS TO:

Bill Bens, Cincinnati Denis Smith, Wasco, Cal. Tom Mann, Milwaukee Bill Fait, Cleveland Morrie Goldman, Chicago

OUR CONTRIBUTORS TO THIS MONTH'S FCC COLUIN

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New Call Letters Issued (Continued):
   North East, Pa., (JD Brownyard) WHYP-FM Vidalia, Ga., (Vidalia B-Cast) WOP-FM
   Vacabille, Calif. (N. Calif Stereo) KVFS (FM)
   Marner Robins, Ga. (TREN) TRBN-FM
   Saginaw, Mich. (Booth American) VSBN-FM
 *San Luis Obispo, Calif. (Cal. State Poly)KCPR-FM
Other Changes Allowed:
                       Salinas, Cal. ERP to 2.65 kw.- ant. 300'
   KERR (FM)
   KEBC (FM) Okla. City, Okla. ERP to 22 kw.- ant 185'
   KDJV (FM) Amarillo, Tex., ERP to 53 kv.
 *WHUS (FM) Storrs, Conn., ant to 360'
KEYN-FM, Wichita, Kan., ERP to 58 kw.- ant. to 310'
KSJN-FM, New Brighton, ERP to 16.5 kw-ant to 340'
 *KCSB-FM, Santa Barbara, Cal., freq. to 91.5 mc.
KONG-FM, Visalia, Calif., ERP to 10 kw.
WPGC-FM, Morningside, Mo., ERP to 50 Kw.
WNOE-FM, New Orleans, La., ERP to 100 kw.-ant.440'
   WYNK-FM, Baton Rouge, La. ERP to 100 kw.
 WSIP-FM, Paintsville, Ky., ERP to 670 w.- ant.570'
WPFR (FM) Terre Haute, Ind., ERP to 9.5 kw.
*WILL-FM, Urbana, Ill. ERP to 105 kw.-ant 850'
KID-FM, Idaho Falls, Id., ERP to 100 kw.
KMYR-FM, Denver, Colo., ERP to 100 kw.
KSJO-FM, San Jose, Calif., ERP to 20 kw.-ant.-68'
WCHO (FM) Camuy, P.R. ERP to 5.93 kw.
   KTUX (FM) Livermore, Calif., ant. to -152'
   WIAL (FM) Eau Claire, Wis., ERP to 100 kw. WDMP-FM, Dodgeville, Wis., ERP 1.1 kw.-ant.460'
   WESR-FM, Tasley, Va., ant. to 300'
   WANS-FM, Anderson, S.C. ERP to 100kw. -ant.120' VFTIX (FM) Statesville, H.C., ERP to 52 kw.-ant.290'
   WFPG-FM, Atlantic City, N.J., ERP to 50 kw.-ant.300'
                 Varrensvurg, Mo., ERP to 27 kw.-ant. 165'
   VIB (FM) Boston, Mass., ERP to 8.7 kw.-ant. 1010'
  WPFR (FM) Terre Haute, Ind., ant. to 190'
ITIM-FM, Taylorville, Ill., Ant to 150'
WSMI-FM, Litchfield, Ill., ERP to 17.5 kw.
KACE-FM, Riversi e, Calif., ERP to 1.7 kw.-ant.-88'
WFMD-FM, Wilmington, N.C., ant to 350'
                                 Miss., ERP to 27 kw.
   WOOR (FM) Oxford,
   WSTO (FM) Gwensboro, Ky., Ant. to 340'
 *WGVE (FM) Gary, Ind., ERP to 2.1 kw.-ant. to 91'
   WQXM (FM) Clearwater, Fla., ERP to 56 kw. WH'H (FM) Camden, Ark., ERP to 39 kw. - ant.185' KCMT-FM, Alexandria, Minn., ERP to 100 kw.-ant.930'
   KSEL-FM, Lubbock, Tex., ERP 100 kw. - ant. 740' WSJC-FM, Magee, Miss., ERP to 100 kw. - ant. 490'
   WBCN (FM) Boston, Mass., ERP to 20 kw. - ant. 440'
   KBE !-FM, Blue Earth, Minn., ERP to 3 kw.
   KWOA-FM, Worthington, Minn., ERP.27 kw.-ant.650'
 WLWM (FM) Nashville, Tenn., ant to 1280' *KERS (FM) Sacramento, Calif., ERP to 5.4 kw.
                     also change freq. to 90.7 mc.
   KCTC (FM) Sacramento, Calif., ERP to 50 kw.
 WRAG-FI, Carrolton, Ala., ERP to 31 kw.-ant.360' *WREK (FM) Atlanta, Ga., EPP to 600 w. - ant.99'
   WKRX (FM) Louisville, Ky., ERP to 25 kw.
   WMBC-FM, Columbus, Miss., ERP to 3 kw. - ant.2651
   WRKB-FM, Kannapolis, S.C., ERP to 10 kw.-ant.320'
   KOKE-FI, Austin, Tex., ant. to 265'
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Unofficial Power Ups KTOD (TEXAS) 100 kw. KIXK (TEXAS) 40 kw. WZAK (OHIO) 27.5 kw. KFJZ (TEXAS) 100 kw. VFMS (INDIANA) 50 kw. MAD (VIS.) 75 kw. MUN (INDIANA) 9.3 kw. FMF (ILLINOIS) 31 kw. USTO (KENT.) 10 kw. MAP (INDIANA) 29. 5 kw. **** Reported Off The Air KXKX - San

Francisco

Reported Back
On The Air

KUZZ-FM 107.9

Fakersfield

KLBS-FM 95.9

Los Banos

New Stations
Reported
On The Air
KINS-FM 96.3
Eureka
KLIL-FM 94.5
Ukiah

Other Changes Allowed (Continued): KLEF (FM) Houston, Tex., ERP to 100 kw. KCFM (FM) St. Louis, Mo., ERP to 100 kw. KLIN-FM, Lincoln, Neb., ant. to 167' * WKTL (FM) Struthers, Ohio, ERP to 910 kw.-ant.26' "LR 7-FM, Champaign, Ill., ERP 43 kw. - ant. 400' VPAG-FM, Ann Arbor, Mich., ERP to 3 kw.- ant 261'

ACTION APPLIED FOR OR REQUESTED

Applications For New Stations: Wichita, Kan., 95.1 mc., 100 kw. Louisville, Ky., 103.9 mc., 2.35 kw. Murfreesboro, Tenn., 89.5 mc., .184kw. Lancaster, Calif., 106.3 mc., 3 kw. Columbus, Neb., 93.5 mc., 1 kw. Las Vegas, Nev., 93.1 mc., 29.7 kw. *Harrisonburg, Va., 91.1 mc., 10 w. Glendale, Ariz., 93.1 mc., 157 kw. Washington, D.C., 89.3 mc., 94.7 kw. New Port Richey, Fla., 105.5mc., 1.65 kw. *Wallingford, Conn., 90.1 mc., 10 kw. Gainesville, Fla., 105.5 mc., 3 kw. Huntington, V.Va., 107.9 mc., 50 kw. Missoula, Hont., 100.1 mc., 2.87 kw. Lawton, Okla., 98.1 mc.,55.5 kw. Egg Harbor, N.J., 104.9 mc., 3 kw. Corvallis, Ore., 106.1 mc., 27.7 kw. Altavista, Va., 105.5 mc., 3 kw. Waycross, Ga., 102.5 mc., 100 kw. New Castle, Ind., 94.3 mc., 3 kw. *Mercer Island, Wash., 88.5 mc.,100 W. Birmin ham, Ala,, 99.5 mc., 35 kw. *Concordia, Calif., 91.1 mc., .0078 kw. Greenville, Miss., 97.9 mc., 26.4 kw. Brinkley, Ark., 102.3 mc., 3 kw. Henderson, Ky., 103.1 mc., 3 kw. Cleveland, Miss., 103.9 mc., 3 kw. Rushville, Ind., 94.3 mc., 3 kw. Miscellaneous Requests:

Waycross, Ga., 103.3 mc.25.6 kw. Gardiner, Me., 104.5 mc., 10 kw. Carthage, Mo., 104.9 mc., 3 kw. Harrisonville, No., 104.9 mc. 27.1 kw. Dayton, Tenn., 104.9 mc., .923 kw. Palestine, Tex., 90.9 mc., 13.35 kw. Du Quoin, Ill., 95.9 mc., 3 kw. Webster City, Iowa, 95.9 mc. (from 97.9 mc.) * Morcester, Mass., 90.5 mc. 2 kw. Ocean Ciyt, N.J., 106.3 mc. 3 kw. Orange, Va., 96.7 mc., 3 kw. Sheffield, Ala., 106.3 mc. 3 kw. Centerville, Tenn., 104.9 mc. 3 kw. Dayton, Tenn. 104.9 mc., 3 kw. Pocohontas, Ark., 103.9 mc., 3 kw. Tulare, Calif., 106.7 mc., .370 kw. Horseheads, NY, 100.9 mc., 3 kw.

KDUX-FM, Aberdeen, Wash., has requested to change its location to Ocean Shores --- applications was accepted by FCC

FIDBITS AND MISCELLANEOUS ITEMS OF INTEREST TO FM DXERS

Cleveland stations WCRF and WCJ (FM) have applied to the FCC for power increases to eliminate co-channel interference from WMUZ and WOMC.

The following stations were denied requests for a continued waiver of the 50% AM-FM non-duplication rule: WJJD-FM, Chicago; WGEE-FM, Indianapolis; WNUS-FM, Chicago; KBEY-FM, Kansas City; At the same time KTNT-FM, Tacoma, was granted an extension of time to Feb. 1, 1969 in order to comply with the rule.

ed. note: to answer several club members questions: the data taken from Broadcasting (and sometimes other official sources) for this column is not always up-to-date. Often the information regarding changes in call letters, requests for changes in ERP, etc., appear in the Broadcasting "For The Record" column long after they were requested and sometimes well after the change has been made. In addition we have no way of know which items in the listings are completed or which stations are already on the air. It's not the most ideal system, but it's better than none at all I guess!!!que

Gary A. Olson 5901 7. Brown Deer Apt. #107 Brown Deer, Wis. 53223

Response to last month's Unids in the first CCI column to appear in VHF-UHF Digest were surprisingly few --- as a matter of fact --- None! C'mon gang, now that the fall's setting in, it's time to get those mystery loggings from last summer explained!

This month, thanks to the help of Morrie Goldman who extracted some CCI stumpers from his EDX reports, we have some additional Unids

to list.

Remember, if you can ID the mystery stations listed below, be sure to contact either the CCI column, the DXer, or both. (I'd love to publish some identifications of wing it let's us know that CCI is being of assistance and also may provide some insight to other DXers about the previous months unidentified loggings).

Anyway here are the CCI loggings for November:

Bill Heusmann - Steger, Ill.

9/24/68 - ch. 25 - (no time?) received what looked like the end of an educational program followed by a public service announcement (PSA) in station break - direction east. Station had a 10 kc. offset with WKNX-25. (WVIZ????)

9/25/68 - ch. 10 - 0529 CDST - received a unid ch. 10 showing Indian Head Test Pattern (IHTP) - direction East-South-East.

10/8/68 - ch. 10 - 0600 CDST, national anthem, promo for "Gene Williams Colorful World of Country Music"

by Job Core promo - direction SSE (WBNS???????)

Jerry Pulice, 143 Gibson Ave., S.I., New York, 10308 9/18/68 - ch. 11 - 0624 EDST, discussion program with two men (Jerry thinks it may be WTVD, Durham - are they on that

early in the morning???)

Morrie Goldman, 8046 S. Euclid, Chicago, Ill. 7/14/68 - ch. 4 - trops - 6:26 A.M. CDST, "First Edition News" direction South East.

7/16/68 - ch. 3 - 5:25 P.M., CDST, "Lanne-3 News" direction ESE 8/23/68 - ch. 12 - 5:40 A.M. CDST, RETMA TP received followed at 5:45 A.M. by religious puppet show; at 6 A.M. station Ided as "Tall 12". At 6 A.M. next program was "Discovery 68". direction SSE

10/8/68 - ch. 11 - trops - 6:30 A.M. CDST, "American Educational Television Commission" announcement received followed after 6:30 break by another educational program which featured a doctor speaking and using a 3-sided swinging board - direction S.W (toward Cape Girardeau, Mo. which was in strong)

Gary Olson, 5901 V. Brown Deer Road, Brown Deer, Vis. 53223 (these skips received at old DX location in Bloomington, Ill.)

6/20/68 - ch. 6 - skip - 6:30 P.M. CDST, ad for Larders on

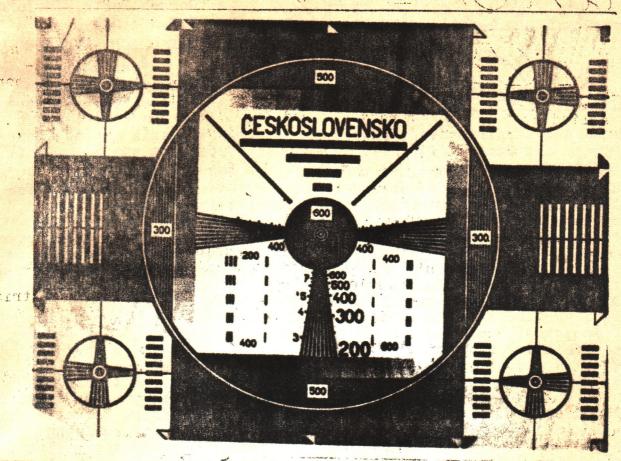
Oleander Drive - direction SW.

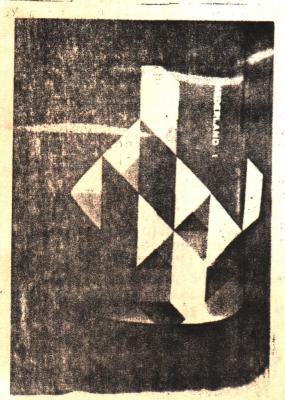
6/24/68 - ch. 5 - skip - 2:40 P.M. CDST, appeared to be a Canadian interview program; at 3 P.M. an ad mentioned the Wexburn Coluseum - direction North.

6/24/68 - ch. 5 - skip - 3 P.M. CDST, TV Bingo show (apparently Canadian) telephone number to call 763-7714 - direction North 6/24/68 - ch. 2 - skip - 3:05 P.M. CDST, promo for BBC Classic

on "CK" television' - direction North

6/24/68 - ch. 6 - skip - 3 P.M. CDST, quiz called "350-A-Week" followed by an ad for "The Party" at the Odeon Theatre. (the same \$50 dollars-a-week show was simultaneously running on That' it a skip station on ch. 2 at the same time) - direction North. for this time. Remember: a nickel for a post card for your Dier friends across the continent may save them \$10,000 worth of wondering ---- if you know their UNID!





CZECHOSLOVAKIA T/C?
"NEDERLAND 1" SLIDE } of Henny
Demming.



ORTF (French TV) noto courtesy Roger Bunney.

EUROPEAN SCENE

Roger Bunney
Trelawne,
Cupernham Lane
Romsey, Hants, England
ZIP S05 8JH

"THE CZECH INVASION"

"The Soviet News Agency TASS has announced that the troops of the Soviet Union

and the Allied countries yesterday entered Czechoslovakia at the request of its Party and State Officials. The troops' movement was Unimpeded."
Thus announced Radio Moscow, on the day after the night before!

As the Russian troops entered Prague the Czech Television Service transmitted pictures of their progress, completely fearless of any repercussions that might eventually be dealt out. The service was being operated by a number of brave technicians, in defiance of the Russian invaders, thus showing to the World the true happenings in their country. As soon as news came of the invasion by the USSR on the 21st of August, these technicians gathered at studio centres in Prague to plan the clandestine transmissions. From early on the 21st, programmes were being put out over the air, and over the link to Austria via the Intervision and Eurovision service. These pictures showed the stark and chilling truth of the invasion. Soon after lunch that day, the line suddenly went dead.

The television engineers were not deterred. Various transmitters continued radiating the following day but one by one they were occupied. Three clandestine television transmitters were on the air, situated in Prague, in the country near Pisek, and another in a large building occupied by the Russians. Undoubtedly the reason why the television service continued for so long, was the fact that many of the studios were in different parts of Prague, unlike the main radio building. As the Russians approached one studio, so the occupants were able to make

their way to other buildings.

Much of the output of the Czech stations was recorded in Austria, either over the normal radio link, and later by an off-air pick-up receiver. These recordings were relayed over the whole Eurovision network.

One of the ch. R2 transmitters at Ceske Budejovice, close to the Austrian Border continued for almost 5 days, before being entered. In Prague, a temporary ch. R1 transmitter was rigged in a barracks and continued to put out signals, although these were rather weak.

Possibly one of the most dramatic transmissions came when the final official transmitter was put off the air. That night, engineers climbed a Russian occupied building, and converted a radio link microwave transmitter, formally used for outside broadcast work. This modified unit radiated the following day on ch. R7, for a very short time. News came to hand that the Russians were searching the roof tops in order to find this transmitter. Thus the last transmission from occupied Czechoslovakia, showing scenes of the co occupation, ended.

For Ceskoslovenska Televize, this was their finest hour!

DX AT DEADLINE :

***DXer Henry Gac of Detroit notes VXON-62 is now on the air. Program schedules are listed in <u>Detroit News</u> "TV Magazine". VXON runs about 10 hours daily with mainly syndicated off-network shows.

***Henry also notes WKBD-50's tower recently caught fire (which may therefore deaay the return of MJMY-20 which would share the tower).

***KFIZ-34, Fond Du Lac, Wis. program listings are now carried in

the Wisconsin edition of TV Guide.

EASTEAN TY

Editor: Morrie Goldman 8046 S. Euclid Avenue Chicago, Illinois 60617

This column is for all television reporters east of the Mississippi River-NOVEMBER

Deadline: 10 of each month

Few openings were reported this month, all being trops. However, a few trop openings of excellant magnitude occured yielding new loggings for most of this months reporters. Trop distances up to 600 miles were reported.

Rod Luma reports that WXON-62 is now on the air with programing since 9-5 with tower and studio location NW of Detroit at Walled Lake. Air time is from about 3PM to 1AM currently. WXON appeared in four of this months reports. Verie signer is Mr. Ken Clark (W8KZU).

Last month Gary Clson began his Co-Channel Interference Column for Un-ID stations. I have sent a number of this months Un-ID stations on to Gary for use in the November CCI column. In the future send a list of your Un-IDsto Gary as well as in your EDX or WDX report. Since greater attention will be given to the isolated Un-ID list in CCI your chances for having another member recognize it are much greater. By supporting Gary's CCI column you could actually increase your totals.

November starts us into the beginning of the cold winter months ahead and the roughest weather for your antenna instalation. Ice, snow and strong winds can demolish an unprepaired aray. Are you ready for winter? All hardware should be tightened down and twin line checked for cracks. Its no fun fixing your aray in freezing weather, so better check it out now, if its not too late already.

Gary Olson, 35 Lake View Lane, Barrington, Ill.

7-20: WEAU-13 trops, 7-21: good medium range UHF trops, 7-22: Un-ID Es in early evening; trops WMT-2, WICD-15 (NEW), WDHO-24 (NEW), WTAF-31 (NEW), KEYC-12, KGLO-3, WLBC-49 and many other UHFs in 200 mile range. 7-23: trops began to peak in mid morning, WAKR-23 (NEW) 9;30AM, tent WCMU-14 9:30-10:05AM, WUCM-19 10AM, WCAE-50 (NEW) 10:07 AM, WKBD-50 (NEW) 10:10AM, WJET-24 (NEW) and WSEE-35 (NEW) 11AM both 420 miles. 7-24: Un-ID skip in early eneming ch.2-4. 7-25 many UHF in 200 mile range via trops. 7-26 WIMA-35 (NEW) 6:25AM and WHIZ-18 (NEW)6:30AM; evening trops WMKG-54 (NEW). 7-30: More trops, WILL-12, WICD-15, WAKR-23, WANE-21. 8-8 Morning trops WKNX-25 (NEW) 7;30AM. 8-12 skip 5:45PM XEFE-2 (NEW with tp and MX) and tent KGBT-4. 8-14 tent WOI-5 by trops. 8-15 WTOM-4 (NEW) 6:28AM, WWJ-4, KROC-10, KWWL-7 and WPBN-7 all by trops. Barrington log at 251.

Bill Grant, 16 Goulding Street, Worcester, Mass. 01609 (EDT)
9-10: 1900 WNEP-16 Scranton, Pa.; 1900 WPHL-17 Philadelphia, Pa.; 9-16 2315 CBFT-2
Montreal, Que.; 2355 CBHT(3)-11 Yarmouth, N.S.; 9-17 0010 WPHL-17 Philadelphia; 9-20
2345 CBFT-2 Montreal, Que.; 10-2 2100-2300: WBOC-16 Salisbury, Md.; WPHL-17 Philadelphia;
WIBF-29 Philadelphia; WXTV-41 Paterson, NJ; WKBS-48 Philadelphia and all VHF stations
in NYC and all UHF stations in Conn. It would be a pleasant surprise if a DXer or two
reported F2 skip on channel 2 this fall or winter. I've been watching the MUF slowly
increasing over the last few weeks. As an example, today (10-6) I heard paging stations
in Fresno, Calf and Boise, Idaho on 35.22 MHz and Long Beach, Calf. on 35.58MHz between
1300-1600 EDT. This will be the last chance for channel 2 F2 during this sunspot cycle.
(Not only will it be the last chance for ch2 F2 for this cycle, it will be the last
chance for BBC-1 ever! Roomer has it that by 1970 BBC will drop all its low channels.
MG)

Bill Draeb, Ellis Street, R.R. #2, Kewaunee, Wis. 54216 (CDT)
Not too much in the line of DX this time. The weather has cooled off considerably which caused the slackening off of trop, however I did manage to get another new sta-

tion on UHF, so I guess I can't complain much. <u>Sept. 13</u> Trops WXNX-25, 1950 WCMU-14, WUCM-19. <u>Sept. 14</u> 1905WICD-15, WLFI-18, 2028 WNYP-26, 2058 WKNX-25. <u>Sept. 15</u> 0845 WANE-15, WPTA-21, WFMJ-21, WKNX-25, 0900 WDHO-24, WKJG-33, 0905 WKBD-50. Sept.24 1840 WKJG-33, WIMA-35, WDHO-24, WKBD-50, WTVS-56, WXON-62 (NEW). Sept.30 0615 WTTV-4. My station total is now at 386 which includes 98 on UHF. KFIZ-34 is in here daily with a next to perfect dignal. They run 698/69.8 kw from a 549' tower (630'aat) which is 9.1 miles NE of Fon Du Lac (about 60 mi. from here.) Construction has been going pretty slow on that new water tower. This week however they completed welding the base together and that part is mounted on the foundation. The other sections are sitting there, but have yet to be put together. From the looks of things they might complete it before the snow begins to fly. I would say the height of it would only be around 70', unlike the old one at 120'. The old one had four legs, but this new one will be of a "mushroom" variety with a cylindrical base, narrow trunk and large bell shaped top. Will let you know next month if any progress is made. I see in the October Digest that aurora was noted on Sept. 7. I don't remember if I saw any that day or not. I see quite a bit of it here during the fall and winter months and it often gets up into the high channels. I don't clears keep records of all the aurcra I see unless it happens to be exceptionally strong or I am able to ID something. The only positive aurora reception ID that I have made was of WCBS-2. I've had other reception while aurora was present, but it looked more like Es. Well, I guess thats all for this month. Hope I have more next time. 73's.

Jeff Kadet, 8047 Park Overlook Drive, Bethesda, Maryland 20034 I am pleased to be a new member of WTFDXA. As an introduction, I am a 21 year old college student and have been TV-DXing since June 1953. Before moving to Md. in August. 1965 I left my old QIH in Needham, Mass. (located just outside Boston) with a total of 111/104 stations in 30/29 states, 2/2 provences and 3/3 countries using a 27 element VHF beam atop a 40' tower with rotor and 1960 Sylvania model 19P11T VHF and 1965 GE model RUN-2 VHF/UHF tw sets. My best Es and trop catches were XEW-2(2295 miles) on 7-21-65 and CBHT's #3 relay on ch 11 in Marmouth, NS (295) on 5-5-64 (412 ERP audio, 248 ERP video according to verie). Outside antennas are not allowed where I live here in Md so I must use rabbit ears. Using the same receivers as above I have seen 75 stations thus far. On vacation down south this summer I did see quite a bit of TV DX on motel sets and came with a few good results although none, of course, are being counted towards any of my totals. 6-13 from Miami Beach: WINK-11 2221 (123), WTVT-13 2228 (212), WFLA-8 2230 (212). 6-20 from St. Petersburg Beach, Fla: WGR-2 1730 (1050). 6-21 from Nahunta, Ga.: KCMO-5 1830 (880), WCSC-5 1930 (163), WESH-2 2100 (152), WFTV-9 2100 (180), WEBA-14 2125 s/off (150), WXGA-8 2210 s/off(23), WVAN-9 2210 s/off (80), WMAZ-13 2219 (145), WCIV-4 2231 (163). 6-22 also from Nahunta, Ga.: WSPA-7 (250) 0500 TP, WTVD-11 (350) 0524 TP, WBTW-13 (210) 0525 TP, WJBF-6 (135) 0530 s/on, WSB-2 (225) 0535 TP, WTVM-9 (200) 0545 s/on. From here not too much was seen this summer, mostly due to being away so much, but Es did appear to be somewhat less than in previous years. 73.

Jerry Pulice, 143 Gibson Ave., Staten Island, N.Y. 10308 (EDT7)

No skip seen since 8-22, but September produced plenty of trops openings (9-18 the best scuthern opening seen in two years!) that helped to make up for the loss. Sept. DX is as follows: 9-3 0650 WTG-5 Washington, DC (190), WHDH-5 Boston (200), WNAC-7 Boston TP, WNHC-8 (NEW) Haven, Conn. (80), WJAR-10 TP, WPRI-12 color bars, both Providence, RI (160), 0620 WTEV-6 New Bedford, Mass. (180), WPRI-12 sign-on. 9-5 2200 WTIC-3 Hartford, Conn. (100) WNHC-8. 9-6 0600 WTG-5 TP, WJZ-13 Beltimore, Md. (160). 9-9 0600 WTIC-3, WTTG-5, WJZ-13, all TP, 2355 WNHC-8, WGAL-8 Lancaster, Pa. (120) WJZ-13. 9-18 0624 WMAR-2 Beltimore TP, WTTG-5 TP, WTOP-9 Wash.DC TP, WRVA-12 Richmond, Va. ID card (275). On 11 I saw two men in some kind of discussion show, but I couldn't get the sound clearly, assumed it to be WBAL (160). I didn't wait for an ID. The shock came when WBAL did come on with color bars. The other 11 must have been WTVD, Durham, NC (410) (NEW). The program seemed to match the listings in a Raleigh newspaper I bought mi NYC the next day, but won't count it until I see a definite ID (maybe next year). 0720 WXEX-8 Petersburg, Va. TP (290), co-channel interference on all channels, some three stations deep. 0900 WHYY-12 Wilmington, Del. (97), WITN-7 Washington, NC (380) over local WABC. Neither visible thru the hash, but a voice ID was clearly heard. 0940 WXEX now in with local quality. 9-19 0612 WRVA-12, WJZ-13, zero offset beat bars over locals EYW-3, WABC-7

(fron WITN), 0624 WAVY-10 TP o/local 10. WMAL-7 TP Washington DC over WABC-7, along with WITN-7. 9-20 0601 WTTG-5, WNHC-8, WTOP-9, Wash. DC WJZ-13. 9-21 0100 WHDH-5, WTTG-5,. 9-25 0612 WMAR-2 Baltimore, WRC-4 ID card and WTTG TP, WTOP-9 TP all WASH. DC. WRVA-12, WTVR-6 both Richmond, Va. WJZ-13 Baltimore, 0629 WMAL-7 Washington DC, WBAL-11, 0700 WPRI-12 RI., 0800 WHYY-12 color bars wiped out the other twelves. 10-2 0830 WHYY-12 TP & local quality. 1900 WTTG-5, WMAL-7, WTOP-9, all Wash. DC, WGAL-8 lancaster Pa. WBAL-11, WJZ-13 Baltimore all excellent pictures except for 10 kc QRM while the ch 5, 7, 9, 11 NYC transmitters were on less than 3 miles away! When the antenna is pointing at Washington, the back faces NYC which helps to block off the locals. Some of the strongest trop signals I've ever seen. 10-3 0625 WTOP-9, WAVY-10 Va., WJAR-10 RI all with TPs. WPRI-12 resolution chart. WNHC-8, WJZ-13. 73's & Best DX.

Rod Luma, 154 37 Ashbury Park, Detroit, Mich. 48227 A good trops opening to the SE was experienced about 9:30PM on 9-8 with WJET-24, WSEE -35, WQLN-54 & WICU-12 all Erie, Pa. coming in nearly snow free. Also caught WKBN-27, WFMJ-21 & weaker WYTV-33 from Youngstown, O. Cleveland was also good with WVIZ-25, WKBF-61, WKYC-3, WEWS-5 & WJW-8 spilling in. On 9-15 I logged new WUAB-43 Lorain, O. whose xmir is located at Parma along with the Cleveland Stations. Also on 9-15 received excellent signals from Clevelands 25 and 61 and WAKR-23 Akron. The Ft. Wayne trio of WANE-15, WPTA-21 & WKJG-33 were good along with WIMA-35 Lima, O. From South Bend came the more powerful WSBT-22 and weaker WNDU-16 and WSJV-28. WSJV's tall tower and high power really shows up here! The evening of 9-24, trops opened to the SW, turning in excellent pix from the Ft. Wayne trio 15, 21 & 33 and also from the South Bend group of 16, 22, 28 with 16 being afflicted by co-channel QRM. WICD-15 Champaign (NEW) was logged along with WAND-17 Decatur, Ill. and WLFI-18 Lafayette, Ind. WIMA-35 Lima, O. also made a good showing. 10-8 Caught WICD-15 Champaign & KFVS-12 Cape Girardeau, Mo. Strangely WICD was hardly interfered with by closer WANE-15 also in the same direction. I'd like to make a few comments about the low aural powers of the US television stations which can in some instances, aid the DXer. The positive aspect would occur when one is attempting to receive a weak DX signal on the higher adjacent channel next to a local station. The reduced aural power of the local, in effect increases the selectivity of the receiver by reducing the aural carrier interference in the DX signal by 6db, or one-half if the locals power was reduced by a factor of 4 (from 50kw to 12.5 for example). This reduction can be considered typical of many stations. Accordingly, such a typical station would have reduced its sound carrier signal strength by 6db : throughout its coverage area. Another asset of this power reduction is improved color reception due to the reduction in amplitude beat frequency of 920kc which occurs between the aural carrier and the color subcarrier (this is the wormy effect one gets when the fine tuning is adjusted so that the color intensity increases). This, of course, is not important as far as dxing is concerned.

Roger W. Winsor, 718 N. Fremont Road, Valparaiso, Indiana (CDT)
All via trops. 9-22 WSWO-26 Springfield, Ohio, 10:40PM. 9-24 WUCM-19 Bay City, Mich.
6:00PM, WTVS-56 Detroit 6:30PM, WXON-62 Detroit 6:13-9:05PM, CFPL-10 London, Ont. 10:0210:40PM, WUSI-16 Olney, Ill., 10:50-11:10PM. 10-8 KFIZ-34 Fon Du Lac, Wis.,
WEAU-13 Eau Claire, Wis. 10:59PM, WHO-13 Des Moines, Iowa 11:30 PM. 10-9 KTVI-2 St.
Louis, Mo. TP 6:15 no call, but ID @ 6:16AM, KMOX-4 St. Louis, Mo.6:15AM, KSD-5 St.
Louis, Mo. No call TP @6:15AM must be them, KFVS-12 Cape Giardeau, Mo. Extremely strong
w/CBS net 6:20AM. Veries from CFPL-10, WUSI-16, WSWO-26, WLWT-5. No answer from WUCM
-19, WTVS-56, WXON-62, KWWL-7, WWAY-3, WTCN-11, WLBZ-2, KGBT-4. Any help on verie
signers for any of these? Total stations now at 200, veries from 66.

Bill Heusmann, 3116 Sangamon Street, Steger, Illinois 60475 (CDT)
Although DX has slowed down lately, my total number of stations received has slowly been climbing. With the addition of five new stations this month, my total stands at 173. Still the openings were few and far between. 9-22 2127 KFIZ-34 Fond Du Lac (NEW), 2255 un-id 3&4; looked like Es to SE. 9-24 1745 WXON-62 Detroit MI (NEW), 1810 WUCM-19 University Center MI (NEW), 1840 WTAF-31 Marion Ind., 1915 WKNX-25 Saginaw MI, 1958 WVIZ-25?, 2155 CKLW-9 Winsor, Ont. 6/local WGN, 2201 WXYZ-7 Detroit o/local WLS,

2221 WKBF-61 Cleveland, WIMA-35 Lima, O., WKJG-33 Ft. Wayne. 9-25 0529 un-id-10 Probably WBNS Columbus O. w/IHTP, 0536 un-id-4 RETMA TP via MS. Looked like Morrie's movie of WCIV. 0605 WKY-4 Oklahoma City on a strong 5 sec. or so MS burst. 9:30 0552 WCIV -4 Charleston SC, MS id in color (NEW), 0601 KRLD-4? Dallas, Tx MS couldn't quite make out call letters., 0607 WPBN-7 Traverse City, MI Local quality. 10-3 0546 Un-id-4 MS. Wedge tp, CLs upper right. 4 in black circle in center. (Your discription sounds like WSM. MG), 0552 WKY-4 Oklahoma City, 0600 un-ID-4 CBS eye 4 ID. Looked like MS burst from SW, more likely KMOX, St. Louis. 10-8 0552 KFVS-12 Cape Girardeau Mo. TP and s/on. Only light snow. 0556 un-id-10 SSE, 0620 KWWL-7? Cedar Rapids, Ia.wiped out by WLS-7 s/on at 0629. 2235 tent KCRG-9 o/local WGN. 2238 tent. KKQA-7 Hannibal, Mo. o/WLS. 1730 KFVS-12 Cape Girardeau Mo., WGEM-10 Quincy (both IDs in passing), 1750 tent. WEAU-13 - gone by ID time. With luck I'll be doing much better by next month. I've got two Winegard Trans-coupler yagis on order (one high band and one low) and hope to mount them with an AP-220N booster around 40'high, providing I can keep them up there! I can't afford a tower and will have to make do with a guyed mast. In addition, if I'm real lucky, I might have F2 reception to report. Roger Bunney has sent me the RF and IF sections of a British TV and if I can get it wired into a US rcvr, I'll be all set for IDX. From what I've read about last years F2, I think I have a pretty good chance of at least audio reception of BBC-1 and ORTF. I don't know how the auroras are going to be. After that promising start a month ago, I've hardly seen a thing. But, I don't really mind. I've got plenty to look forward to!

(CDT) Morrie Goldman, Editor Sept. 24 4:30PM to 10:35PM WWJ-4 Detroit, WFBM-6 Indianapolis, Ind., WOC-6 Davenport Iowa, WJIM-6 Lansing Mich., WOOD-8 Grand Rapids Mich., WILX-10 Onondaga, Mich., WJRT-12 Flint, Mich., WILL-12 Champaign, Ill., WREX-13 Rockford Ill., WSPD-13, Toledo, Ohio, WIZM-13 Grand Rapids Very strong, WLWI-13 Indianapolis Ind., WCMU-14 Mt. Pleasant Mich., WMTV-15 Madison, Wis., WANE-15 Ft, Wayne Ind., WNDU-16 South Bend, Ind., WKTR-16 Dayton Chio, WAND-17 Decatur Ill., WTVO-17 Rockford, Ill., WVTV-18 Milwaukee, Wis., WLFI-18 Lafayette, Ind., WUCM-19 University Center, Mich., WPTA-21 Ft. Wayne, Ind., WSBT-22 South Bend MUCH stronger than usual, WCEE-23 Freeport, Ill., WDHO-24 Toledo, Ohio, WSJV-28 Elkart Ind. vry strong, WIMA-35 Lima, Chio, WLBC-49 Muncie Ind., WCAE-50 St. John, Ind., WKBD-50, WTVS-56 Detroit, WXON-62 Detroit, Oct. 1 8:10PM Aurora Interferance noted on channel 4. Oct. 7 10:50PM KTHV-11 Little Rock, Ark. 600 mile trop with good quality signal, KFVS-12 Cape Girardeau, Mo. strong as a local! Oct. 8 KFVS again in like a local. Un-ID-11 at 6:30AM Ed. pgm with ID of "American Edcational Television Commission: 11:35PM KPLR-11 St. Louis, Mo., 20kc offset on 11 from same direction with another movie occasional coming in o/KPLR. KFVS also in. Oct. 9 KFVS-12 Strong again at 7:30AM, WTOL-11 Toledo also vi wable. Oct. 15 about 6:15AM MS KGNC in about 10 rapid successive bursts from Amarillo, Texas. WKY-4 at about 6:20AM from Oklahoma City. The opening on Sept. 24 was really amazing. Unfortunately I still didn't see WKBF-61 and WAKR-23. The two have really been ellusive! Due do the massive bleed over from local 32 I still havn't seen Fon Du Lac's 34. The two are in almost the same direction. School work has really kept me going, but since I've got to get up early for class I get a chance to take a look for morning DX. Since the 9th conditions have really looked poor, with no signs of aurora or Es and very poor trop. I again ask, if there are any of the clubs amateur radio operators that would like to set up a schedule for DX talk, please write, With the addition of my new 5BDQ by Hygain I can operate on 10 to 80 meters.

73's and BEST DX, Morrie WA9RAQ

3661 South 46 Street Greenfield, Wisc., 53220

PART II. ALL ABOUT TRANSMISSION LINES

HOW IT'S BUILT (Continued)

In addition to coaxial and flat T-line, there is one more basic type of T-line construction: open T-line. This type is constructed just as the name implies. Two stiff parallel conductors are supported every six inches by small insulating spacers to keep the conductors spaced properly. During manufacture, each conductor is forced partially into a slot in the spacer, and this slot is forced closed so the conductor cannot pull out. No insulation surrounds the conductors.

The conductors are copperweld wire: usually #18 steel wire with a copper coating. The steel provides tremendous tensile strength, and the copper makes an excellent, low corrosion conductor.

While this type of line has extremely low loss (to be discussed later), it is difficult to install since the conductors can easily short to the mast. Or, the conductors may not remain parallel, especially at midpoint between spacers. Open wire has been available in impedances up to 1000 ohms, but 300 and 450 ohm lines seem most common now.

Several improvements in the three basic types of T-line and hybreds are common. The flat line type of construction, for example, has graduated into oval, hollow tubular, and tubular filled types.

Advantages of these types are the lower signal loss per foot, expecially when wet. This is achieved, basically, by providing a longer path for moisture, either due to the larger circular route moisture must take to get to the conductors or due to a thicker insulating web. (While the dry loss per foot of round types of T-line may be no better than that of a good grade flat line, the loss when wet of round types may only approach 50%, but wet loss of flat line approaches 90 to 95%.) Some types of tubular T-line have a foam center for improved performance when wet.

The most popular hybred is the shielded 300 ohm line recommended for color TV. While construction varies, this type resembles the basic flat type, but several layers of insulator as well as an aluminum shield surround it, with conventional polyethelene insulator holding this "sandwich" in place. The shield, although increasing the loss per foot slightly when compared with other tubular T-line, imploves reception by reducing the effects of metal gutters or masts. Also, man-made noise (ignition, etc.) is reduced, and the T-line does not serve as an antenna itself (a problem that could destroy a color picture.)

CONTINUED NEAT MONTH, PART IFI

TOP-PICS OF INTEREST

The October, 1968 issue of Radio Electronics magazine contains some interesting statistics and articles as well as one short item of more than passing interest.

In the "looking ahead" portion, R-E notes that a full scale engineering investigation is being conducted in an attempt to eliminate the major weakness of American color TV: the annoying variation of color intensity and hue from scene to scene, camera to camera, and station to station. In this investigation all components that could affect color reproduction will be evaluated, such as station equipment, film processing, broadcast standards, receiver and antenna design, etc. FCC standards might result from this study, says R-E.

To this, I would like to add by opinions. Whether TV broadcasters or equipment manufacturers like it or not, they must face the reality that the biggest problems in color TV are (1) the admittedly poor U.S. color TV system itself and (2) inability - up to this time - to control or compensate for the phase variations that occur during scene, camera, or station shifts. Anyone that has analyzed the electrical operation of U.S. color broadcasting and receiving techniques realizes that our U.S. system is a poor last when compared with the PAL and SECAM systems. Of course, PAL and SECAM have their drawbacks also, but not nearly as many as the U.S. system. In fact, engineers and technicans have not too complimentarily referred to the U.S. systems as "never the same color".

TECHNI/CORNER Page 2

But the real culprit is the often uncontrolled phase variation. If a television camera monitors long enough a given scene so that proper adjustment can be made at the origin, if the color set owner is fast and educated enough to adjust his color controls before the camera changes, if his quality receiver is properly aligned, and (last, but not least) if an adequate receiving antenna and transmission line have been installed, his color picture is indeed satisfactory. But when the illumination changes or a new camera is switched in, our poor color set owner often notes a drastic change in color. After banging his can of beer to table, uttering a few four letter adjectives, and dedicating the TV-technician who aligned his set to a rather warm climate, cur hero makes another trip to the set for some slight "modifications". After a while, he learns to live with this, and he's content with "perfect color" (his words) most of the time (also his words)!

My own experience with color TV has been most disheartening. In fact, I wouldn't give a bent Goldwater button for the daily color picture available even with the best receiver (Heathkit) and a fine color TV antenna and T-line. I have installed good color antenna systems for friends, with antenna line of sight with the transmitter, but still face the problem of explaining to them that the hue and intensity changes are not the fault of the receiver or antenna, but the fault of the originating station. Of course, movies and cartooms can be received well, but live or video-taped shows cause the trouble.

Often, however, the color set owner is "completely" (his words again) happy with the purple faces, blood, etc. of such winners as Bonanza, Peyton Place, and other drivel spewed forth by the major TV networks over our "vast wasteland". Such a satisfied owner is probably the same "status symbol" individual who, after purchasing his first expensive stereo console five years ago (\$50 worth of Japanese junk in a \$25 plywood cabinet, listing at \$399), tuned in his favorite FM stereo station in the living room and returned to the kitchen where he bragged to his neighbor about the obviously beautiful "seperation" and stereo effect! We all have met these "keep up with the Jones" experts; they certainly wouldn't admit that they spent \$700 for a color picture that is less than perfect.

In conclusion, there are really only two things that can be done about the poor color TV problem. The first is to change the system. One gun systems and systems immune to the present phase shift problems have been designed with excellent results. But John Q. Public and the Federal Government would never stand for obsolescence of millions of dollars worth of color equipment. The second and more logical answer is reduction of hue and intensity changes by controlling or minimizing the phase shift, which is what the investigation is all about. This could best be done —— although at a cost —— at the point of origin by using equipment capable of compensating for such changes, or continually correcting per a set "standard". Also, to correct for the color variation from network to network, a test pattern could be used briefly at the start of each new program so that the set owner could adjust his receiver for what he thinks is correct color. The crew would then attempt to maintain this color relationship throughout the program. But even this means loss of sponsor or network time, which is taboo.

So while I applaud this latest "study" mentioned by R-E, I will not hold my breath for immediate change. If color sales again increase rapidly (they have been considerably less than expected in 1963) and our public continues to accept the inferior product, the "you scratch my back, I'll scratch yours" clique of equipment manufacturers and broadcasters will term this a mandate from the people, and I'm sure, that this study" will result in a much abbrievated report filed in the miscellaneous section

While color TV sales may not be as high as expected, black and white TV sales actually increased by 2.5% in the first half of 1968, notes R-E. This is centrary to the opinion of many "experts" who had forcast a "rapid decline in monochrome TV sales in view of the overwhelming acceptance of color TV". However, 25% of monochrome sales in the U.S. were for sets manufactured overseas! Many sets bear the familiar U.S. name, but are actually Japanese made per American specs. Japan, Taiwan, Hong Kong and, of course, Canada currently ship TV sets to the U.S. in quantity. R-E also notes that the 12° portable is most in demand, while the novelty-sized TVs are on the decline.

Two articles in R-E on tape recorders should be of interest to anyone considering the purchase of same. The "How to Buy a Tape Recorder" article is well written and should force the prospective buyer to examine his tape recording needs. Several dollars may be saved by selecting a recorder without some "features" that he may not need for his application. An article on the cassette tape revolution is included. Inexpensive cassatte recorders with good specs seem to be available, and the market locks good indeed.

73's Dave

| WORLDWIDE TV-FM DX ASSOCIATION DX Report form: 1968 For period | | | | City time used Eqpt | | | | | | |
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Editor: Roger !. Vinsor 718 N. Fremont Road Valparaiso, Ind. 46383

This column re-typed for Roger at VHF-UHF Digest headquarters!!!!!!

DX in August was totally a washout in the Chicago area, per phone calls from Morrie and correspondence with other members. Not is the case in other areas, so here goes:

Bens, 5575 Spruce Good Drive, Cincinnati, Ohio 45239 EST WMIL 95.7 Milwaukee, Vis. 25kw. Nx end, cw mx@ 11:25pm KDKA 92.9 Pittsburgh, Pa. 47 kw. Pirate BB and Phomo-12 KADÍ 96.5 St. Louis, Mo. 24 kw. Wx and 12:06A s/off VEAU 104.5 Eauclaire, Vis. 34 kw. s/off 12:59 AM 11 VFXI 92.7 Arlington Hts, Ill. VFMF 100.3 Chicago, Ill 3 kw. Stat. jingle 12:31 11 33 kw. PSA 12:43 11 WJOL 96.7 Joliet, Ill. 3 kw. PSA 12:58 11 YZMF 98.5 Menominie Falls, Wis. 3 kw. News 1:30 11 WTMB 98.9 Tomah, Wis. 100 kw. News 1:31 TKFM 103.5 Chicago, Ill. 100 kw. PSA 1:45 (note power) 11 WSTO 106.5 Kalamazoo, Mich. 23.5 kw.MI pgm. 2:01 8/5 WKUZ 95.9 Wabash, Ind. 3 kw. Trading Post 9:19 8/11 VBNQ 101.5 Bloomington, Ill. 50 kw. 'IX 12:25 WIL 92.3 St. Louis, Mo. 38 kw. 'IX 12:25 8/12 WBK 93.1 Detroit, Mich. WIZZ 97.7 Streaton 20 kw. S/off @ 11 27 kw. PSA and '!x 11:30 Streator, Ill. 3 kw. PSA and TX 11:03 8/13 TMS 100.9 ??????? Ohio 3 kw. Farm program thru TKNY 8/16 KOSI 101.1 Denver, Colo. 52 kw. WILL 90.9 Urbana, Ill. 300 kw. s/off 9:59 TIKI 100.5 Kokomo, Ind. 5.1 kw. Nx VFKO and mx 11:00 8/18 !OPA 102.7 Oak Park, Ill. 100 kw. Rel. pgrm. 7:30 YFBN off WIEC 102.7 Sandusky, O. 5.9 kw. 7:50 " 8/22 WHIS 104.5 Bluefield, I.Va. 5.9 kw. Promo for WHIS-W 8/25 WSTR 99.3 Sturgis, Mich. l kw. Nx 1:01 WKUS 92.1 Russelville, Ky. 2.7 kw. Cw mx 7:32

Bob Astman, 191 Louvaine Drive, Kenmore, New York 14223 EDT On 6/20 had 2 unids on 104.9 and 105.1mc. which were unlisted in White's Log. I have since purchased a VJ log and by using that plus the tape recording I had I can now positively ID both as WAQB 104.9 Atlantic Beach, Florida and 1710S 105.1 Orlando, Fla. Here current DX underlined means verified: 8/3 YBFA 107.3 Elyria, 0., 'BCU 97.3 Ithaca, N.Y. 8/10 TUBC 94.1 Canton, O. on late with Browns football game them at 2:03 AM sign off. 8/13 'CLV 95.5 Cleveland, Ohio 2:13 AM. Trops later that day and many new ones especially on 102.5 where local was off the air. WRAK 102.7, Williams port, Pa. 4 FM w/ID. WRFD 101.1 Youngstown, Ohio now WROT 1330 5:49, PIT 101.5 Pittsburgh, Pa. 6:04 nx end, KQV Pittsburgh 102.5 8:50, WKSU 89.7 Kent, Ohio 9:23 and ViGil Meadville, Pa., 9:44. On 8/14 VSTV 103.5 Steubenville, O. s/off At 101 and VKSN 101.7 Jamestown, N.Y. sign off at 1:16. 8/31 VFFT 101/9 and CHFX 101.5 Peterborough, Ont. both heard between 11:15-12:00. 9/3 WPUN Utica, N.Y. 9:30 PM. I will be leaving for college in two days and don't anticipate any more time for DX; season totals are 43 new FMers.

HEADQUARTERS NOTE: We regret the delay of the remainder of Roger's FM column, however, his first attempt at stencils did not turn out at all. We made attempts to copy them here, but much of the material is unreadable. Thus, Roger will re-type them and the rest of the column will appear next month.

This column will return at least from time to time, depending on the time available for perusing other clubs' publications (which I do anyhow) and the time available to type the page (or 2) each month.

There is a new series of publications available entitled "Emergency Radio Services Monitoring Bulletins" available from Communications Research Bureau, Box 56, Commack, NY 11725. These 10 bulletins at \$1 each contain lists of police, fire and other VHF emergency services. Nine are for metropolitan areas: Boston, Chicago, Detroit, Florida, New York City, Philadelphia, southern California, San Francisco, and Washington-Baltimore. The tenth bulletin lists 107 other cities from Akron to Youngstown excluding Alsaka, Hawaii, Puerto Rico, and terr. It sounds like just what we VHFers have been looking for!!

The Oktober 5th "TV Guide" had an article with pictures taken off a color TV screen. They recommend using ASA 50/64 daylight color film (Kodachrome X, Anscochrome 50, or similar); set camera at f2.8 and at

i/15 of a second for adjustable cameras.

Kodak has free leaflet #AC-10 entitled "Photography of TV Images" which is very good. Write Eastman Kodak Co., Consumer Markets Div., Rochester, NY 14650. The 3½ page leaflet suggests a shutter speed of of 1/25 or 1/30 second at f4 on Plus X or Verichrome Pan film-125 ASA. If you have a non-adjustable camera, they recommend using Tri-X film (ASA 400) and set the camera for flash but WITHOUT inserting a bulb.

They also recommend a close-up lens for clear focusing at less than the cameras minimum focusing distance so you can fill the view-finder with the TV screen. The Brownie Hawkeye has always been popular for photographing TV-DX but whatever non-adjustable camera, they just aren't good enuff for a really superb picture that can be used in the Dijest--especially for color TV. Of course adjustable cameras cost more, but even an Exa I single-lens reflex can be purchased for under \$40; if you can't see the TV lines in the picture, it isn't as sharp as it could be with a good adjustable properly focused. Proper focusing at close distance is THE essential and can be achieved with almost any camera if care is taken; close-up lenses are essential for most cameras however; although they are not expensive they may be hard to obtain for some cameras. (Lenses are readily available for Instamatics; Lafayette has a close-up attachment for only \$1.95.)

You need not use expensive film such as Tri-X; if you have a time exposure on your camera you can use any film. (I use to have an adjustable \$8 camera i bought at Sears, and I used Walgreens film. Then I used ASA-40 film in a Linolta until very recently when I switched to

an Exakta SLR, (sigle-lens reflex).

Questions are continually asked of me and others as to what has happened to several clubs. ICDXC has just announced that they are now defunct. Ambrose Maxim has sent in AMARC dues for Firerest DX Club until they can get on their feet again, (altho no such plans have been announced.) These two notes from the AMARC October newsletter.

CIDXC rejected merger with CDXC (which exec Ralph Irace insists is not defunct). I heard an unconfirmed report some time ago that Fircrest tried to merge (unsuccessfully) with both CIDXC and the NY State club. FRCE is also apparently defunct; it was founded by the execs of CDXC and Fircrest so it is quite understandable why it is also defunct.

CDXC/FRCE head Ralph Irace was defeated 15-1 for ANARC executive secretary by Gray Scrimgeour, (not to detract from Gray's qualifications). Gray will have assumed leadership of ANARC by the time you read this. Lots of luck Gray in an important responsibility.

--fsd

VELY BENDE

Robert B. Cooper, Jr. (KV4FU) P. O. Box 1355 Frederiksted, St. Croix, V.I.

"The radio world from 30-54 MHz: VHF radio."

Our apology for missing the October issue; ar oversight on our part.

Until conditoins quiet down, we will hold off our continuation of

the "mechanics of skip" and dive right into reports of VHF DX.

At this time no one knows for certain just when or if the peak sunspot count of the current cycle was reached. Since the pack month or 2 are computed as a MEAN (average) using the counts of months before and after as well, we have to wait several months before we can say that the peak occurred in the month of ---. Most educated guesses suggest the peak was reached during the Summer of 1968.

It is important to remmeber that once the peak is reached, the declining side of the cycle is much slower than the rising side. Therefore the MUF is highest at or just after the peak sunspot count, and hence we are now in that peak time.

Hence, conditions this Fall, Winter and Spring will average better than the comparable periods of 1967-8. Conditions in the Fall of 1969 will probably still be superior to the conditions in the Fall of 1967.

The MUF, (maximum usable frequency for skip), currently is this: A large area of the 46-52 MHz MUF is daily circling the globe at a latitude of approimately 4° south to 10° north of the equator. Parts of this highly dense MUF area will finger north during the peak days of November--as far north as 40-45° latitude. This will be the optimum period for east/west skip paths across North America, Europe/N.A., & N.A. to the Pacific. Best hours for reception will always be:

A. For stations east of you: 2000 to 6000 miles: when its 1000-1400 LST at a point & way between xtr and revr.

B. For stations west of you: 2000 to 6000 miles: when its 1000-1400 LST at a point 1 way between xtr and rcvr.

The table at the end of this column is a computer-program that projects general MUF conditions for daytime F2 for the period 1 Nov. 68 to 1 Dec. 68. F2 conditions after that will deteriorate rapidly.

SIX METER DX:

The evening type TE-skip began in the western hemisphere on the evening of 4 Sept. with a contact at 2130 AST (same as EDT) between this writer and station CE3QG in Santiago, Chile. An hour later, OA4C in Lima, Peru was worked. Signals were 5X9 and typical TE. Distances

involved were 2500 and 3700 miles.

During September, there was TE between the Virgin Islands and S.A. (Argentina, Brazil, Chile, Peru, Paraguay and Uruguay) on 23 of 27 dates observed. Six meters was open for 2500 mile-plus TE a total of 59 hours and 45 minutes during evening hours. At this writing, October looks comparable altho not yet complete. On seven known dates in Sept. the TE on 6 reached the southern USA; on 16 Sept. 0A4C worked 50 stations in 8 southern states in a 2-hour period.

On 29 September, hams in Argentina, Chile and Uruguay worked a ham in the Hawaiian islands also. This was a combination of regular F skip and TE over the combined day/nite path. This type of contact was repeated on 10 dates thru mid-Oktober and appears to be quite common now.

In mid afternoon on 5 Okt., 6 meter hams in Gibraltar (ZB2BO and ZB2BC) worked ZS3E in Windhoek, Soutwest Africa via regular F skip. After dark they did it again via TE; on 13 Okt. they repeated the F skip (daytime) feat again. This writer also worked ZS3E on 13 Okt. at 1130 AST via regular F skip.

There are numerous other examples of 6 meter work, but the point is this: amateur radio operators using a band bordering on American TV channel 2 (and well above TV channels in some other countries) are porting tremendous distance loggings on both regular F skip and evening TE skip. The opportunity for long-range channel 2 reception is coming up fast and will peak during November for N.A. DXers!

Personally, I observed my first evening TE TV-DX on 19 Sept. here in the Virgin Islands. Since that date I've logged ch. 2, 3, and 4 in ' Brazil, 2 from Argentina and 2 from Lima, Peru. Distances: 2500-4000+.

Evening TE peaks between 1900 and 2200 AST. It is entirely conceivable that if you live in the southern USA you may have a day or 2 of this TE. You must have at least one hop of regular Es toward S.A. to add to the TE which rightly reaches 17-19 north latitude. For most DXamateurs in the southern USA the only Es stations south of you are in Cuba, major Antilles and southern & central Mexico, so if you see any of these from 7-10 PM LST, you have fulfilled the first requirement & you may start looking for TE+E from south of the equator.

Another word about TE skip. I am at approximately 17 here in V.I.

and hence I have TE almost every night. I HAVE YET TO SEE A PICTURE I CAN EVEN MAKE OUT: TE signals fade up and down over very wide signal levels at a rate as high as dozens of times a second. The signals you receive are jumbled and garbled and altho they may be extremely strong (as is often true), the picture is fading so rapidly and contains so many ghosts, that it is impossible to make it out. Therefore, concer trate on IDing the audio; tune the best sound and hope you can make something out. A tape recorder is invaluable for later playback for your own checking or to playback for a linguist who can help ID the language and what is said. If your skip comes earler in the evening, it is likely to be Brazil where Portuguese is spoken. If your skip is later its more likely to be Argentina or Peru where Spanish prevails.

DAYTIME DX REPORTS:

DXer Bill Grant of Worcester, MA reports MUFs rising in all directions. "On 9/29, KMD342 in CA heard on 35.22 at 1230 EST along with Spanish up to 36 MHz. On 6 Okt. heard strong French stations between 32.0 and 34.5 MHz around 1045 EST.; from 11-1700, the 35 MHz paging channels were a mass of heterodynes... I identified KMD342-Fresno, KMD 344-Long Beach, and KOK344-Boise." Bill uses a Lafayette HA50A, Nova-Tech action portable, and a TRP 348X Tunaverter to monitor 30-54 MHz.

Pat Dyer (WA5IYX) of Austin, TX reports peak days for him in Sept were the 12th (MUF at 41 MHz to S.A.); 13th (MUF at 42 MHz to S.A.); 15th-45 MHz; 16th-44 MHz; 17th-42 MHz; 19th-44 MHz; 20th and 21st-44, etc. (All MUFs to South America, and all between 1225 and 1630 hours. Pat is uniquely located where he will receive S.A. stations at considerably higher freq than northerners would expect to receive.

· In the VI here, most interseting logging is the Mexico City pager on 43.48 MHz, (not 43.58). It was noted on Oktober 13, 14, 15, 16 for as long as 6 hr straight. Sacramento & Los Angeles heard on 43.58, too.

DAYTIME F-LAYER PROJECTIONS:

The following dates have been computer-projected as being especially likely to produce unusual F-layer daytime DX. Accuracy in the past:90%.

Nov. 8: possible east/west F2 (even up to 50 MHz); ditto on 9, 10,11. Nov. 15: possible S.A. reception from 11-1600 LST; ditto on 17th.

Nov. 22-23: disturbance of conditions.

Nov. 24: possible east/west and S.A. skip up to 50MHz; 10-1400 LST.

Nov. 25; ditto. Nov. 26: ditto except later in day.

Nov. 27: possible east/west skip. NOTE: whenever times are not given, use times given earlier in column. Thats it for this month. Lets have your reports!

STATISTICS

Vol. 7 No. 11

EDITOR: Glenn Hauser, 1312 West Oak, Enid, OK 73701, USA. CHECK HQ SECTION FOR CHANGES!

Deadline for channel 5 records, corrections, etc.: 5 December 1968

| | 1900年的1900年第二次的企图 (1900年) | CHANNET | I TUTTY DECORDE | * / L # 1 7 |
|---|--|---|--|------------------------------|
| Call | Location | | 4 TVDX RECORDS | |
| WTVY | Dothan AL | | DXer, Location | Comments |
| WRBL | | 1400 | Ghislain Girard, Arvida PQ | |
| KVOA | Columbus GA (AL) Tueson AZ | T800 | Morris Foote, Middleton ID now ch | 3; now in GA |
| KARK | Little Rock AR | 1140 | Doris Johnson, Longview WA | |
| KRCA | Los Angeles CA | 2150 | Robert Cooper, Fresno CA | |
| KRON | San Francisco CA | 27.50 | Robert Seybold, Dunkirk NY | now KNBC |
| KOA | Denver CO | | Frank Hill, Gallipolis OH | |
| | | tie | King Schafer, Kenmore NY Norm Erint, Kenmore NY | |
| WRC | Washington DC | 2295 | Robert Cooper, Fresno CA | 1990年第4年 |
| WJXT | Jacksonville FL | | Ghislain Girard, Arvida PQ | TAKAN |
| WTVJ | Miami FL | 1385 | Carl Dabelstein, Omaha NB | was WMBR |
| KULA | Honolulu HI | 4230 | Carl Lupton, Shelbyville IL | Wash William |
| WHBF | Rock Island IL | 1030 | Dave Sidall, Hyannis MA | now KHVH |
| WITV | Eloomington IN | 1900 | Doris Johnson, Longview WA | |
| KTIV | Siour City IA | 1330 | Doris Johnson, Longview WA | free free to |
| WIL | New Orleans LA | | Alan Michalek, Springfield MA | |
| WBZ | Poston MA | 2565 | Robert Cooper, Fresno CA | |
| WIOM | Cheboygan MI | 1245 | Bill Stanley, Deer Park TX | |
| WIJ | Detroit MI | 1955 | Robert Cooper, Fresno CA | |
| WCCO | Minneapolis MN | 1480 | Robert Cooper, Fresno CA | |
| WUBI | Columbus MS | 1305 | Karl Aiken, Kingston Jamaica | |
| NDAF | Kansas City MO | 1505 | Doris Johnson, Longview WA | |
| KMOX | Saint Louis MO | 1725 | Doris Johnson, Longview WA | was KWK |
| KXLF | Butte MT | 1215 | Bill Draeb, Kewaunee WI | was IIMII |
| KDUH | Hay Springs NB | 1305 | Mrs. W. E. Burnitt, Waterloo NY | |
| KHTL | Superior NB | 930 | | |
| KCRL | 77.77 | | | |
| | Reno NV | 1200 | Glenn Hauser. Enid OK | March & Commence |
| KOB | Albuquerque NM | 1320 | Glenn Hauser, Enid OK Walter Spaulding, Cardington OH | |
| KOB −CATV-3 | Albuquerque NM White Sands Missile Range | 1320 | Walter Spaulding, Cardington OH | El Paso TX |
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| KOB CATV- WBEN WECA WUNC KXJB WLWC WKY KPIC WGAL WTAE WCIV WFBC WSM KGNC KEDY KRLD KROD KGBT | Albuquerque NM White Sands Missile Range Buffalo NY New York NY Chapel Hill NC Valley City ND Columbus OH Oklehoma City OK Roseburg OR Lancaster PA Pittsburgh PA Charleston SC Greenville SC Nashville TN Amarillo TX Big Spring TX Dallas TX El Paso TX Harlingen TX | 1320 1340 2440 1040 1355 2035 1500 200 985 1120 1055 1250 1330 1325 1290 1440 1335 1945 | Walter Spaulding, Cardington OH Fred Nordquist, W.S.M.R. NM *KROD-4, Jim Dillon, Regina Sask Robert Cooper, Fresno CA Glenn Hauser, Fnid OK Dennis Smith, Wasco CA Doris Johnson, Longview WA Doris Johnson, Longview WA Doris Johnson, Longview WA Bedford Brown, Hot Springs AR Eill Stanley, Deer Park TX Karl Aiken, Kingston Jamaica Karl Aiken, Kingston Jamaica Jim Dillon, Regina Sask Doris Johnson, Longview WA John Parillo, Girard OH Norris Doyle, Pittsburg CA | now WNBC |
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| KOB CATV- WBEN WECA WUNC KXJB WLWG WKY KPIC WGAL WTAE WCIV WFBC WSM KGNC KEDY KRDD KROD KROD KROD KROD KROD KROD KOBT KPAC | Albuquerque NM White Sands Missile Range Buffalo NY New York NY Chapel Hill NC Valley City ND Columbus OH Oklehoma City OK Roseburg OR Lancaster PA Pittsburgh PA Charleston SC Greenville SC Nashville TN Amarillo TX Big Spring TX Dallas TX El Paso TX Harlingen TX Port Arthur TX | 1320 1340 2440 1040 1355 2035 1500 200 985 1120 1055 1250 1330 1325 1290 1440 1335 1945 1280 tie 1425 | Walter Spaulding, Cardington OH Fred Nordquist, W.S.M.R. NM *KROD-4, Jim Dillon, Regina Sask Robert Cooper, Fresno CA Glenn Hauser, Fnid OK Dennis Smith, Wasco CA Doris Johnson, Longview WA Doris Johnson, Longview WA Doris Johnson, Longview WA Bedford Brown, Hot Springs AR Eill Stanley, Deer Park TX Karl Aiken, Kingston Jamaica Karl Aiken, Kingston Jamaica Jim Dillon, Regina Sask Doris Johnson, Longview WA John Parillo, Girard OH Norris Doyle, Pittsburg CA Bill Draeb, Kewaunee WI Doris Johnson, Longview WA William Hider, Binghamton NY Richard Italiano, Binghamton NY David Nieman, Buffalo NY | now WNBC |
| KOB CATV- WBEN WRCA WUNC KXJB WLWC WKY KPIC WGAL WTAE WCIV WFBC WSM KGNC KEDY KRLD KRDD KRDD KRDD KRDD KRDT KPAC | Albuquerque NM White Sands Missile Range Buffalo NY New York NY Chapel Hill NC Valley City ND Columbus OH Oklehoma City OK Roseburg OR Lancaster PA Pittsburgh PA Charleston SC Greenville SC Nashville TN Amarillo TX Big Spring TX Dallas TX El Paso TX Harlingen TX Port Arthur TX San Antonio TX Salt Lake City UT | 1320 1340 2440 1040 1355 2035 1500 200 985 1120 1055 1250 1330 1325 1290 1440 1335 1945 1280 tie 1425 1665 | Walter Spaulding, Cardington OH Fred Nordquist, W.S.M.R. NM *KROD-4, Jim Dillon, Regina Sask Robert Cooper, Fresno CA Glenn Hauser, Enid OK Dennis Smith, Wasco CA Doris Johnson, Longview WA Doris Johnson, Longview WA Doris Johnson, Longview WA Bedford Brown, Hot Springs AR Eill Stanley, Deer Park TX Karl Aiken, Kingston Jamaica Karl Aiken, Kingston Jamaica Jim Dillon, Regina Sask Doris Johnson, Longview WA John Parillo, Girard OH Norris Doyle, Pittsburg CA Bill Draeb, Kewaunee WI Doris Johnson, Longview WA William Hider, Binghamton NY Richard Italiano, Binghamton NY Robert Seybold, Dunkirk NY | now WNBC |
| KOB CATV- WBEN WECA WUNC KXJB WLWC WKY KPIC WGAL WTAE WCIV WFBC WSM KGNC KEDY KRUD KROD KOBT KOMO KOMO KOMO KOMO | Albuquerque NM White Sands Missile Range Buffalo NY New York NY Chapel Hill NC Valley City ND Columbus OH Oklehoma City OK Roseburg OR Lancaster PA Pittsburgh PA Charleston SC Greenville SC Nashville TN Amarillo TX Big Spring TX Dallas TX El Paso TX Harlingen TX Port Arthur TX San Antonio TX Salt Lake City UT Seattle WA | 1320 1340 2440 1040 1355 2035 1500 200 985 1120 1055 1250 1330 1325 1290 1440 1335 1945 1280 tie 1425 1665 2105 | Walter Spaulding, Cardington OH Fred Nordquist, W.S.M.R. NM *KROD-4, Jim Dillon, Regina Sask Robert Cooper, Fresno CA Glenn Hauser, Enid OK Dennis Smith, Wasco CA Doris Johnson, Longview WA Doris Johnson, Longview WA Doris Johnson, Longview WA Bedford Brown, Hot Springs AR Eill Stanley, Deer Park TX Karl Aiken, Kingston Jamaica Karl Aiken, Kingston Jamaica Jim Dillon, Regina Sask Doris Johnson, Longview WA John Parillo, Girard OH Norris Doyle, Pittsburg CA Eill Draeb, Kewaunee WI Doris Johnson, Longview WA William Hider, Binghamton NY Richard Italiano, Binghamton NY Robert Seybold, Dunkirk NY Robert Scybold, Dunkirk NY | now WNBC now ch 8 now KWAB |
| KOB CATV- WBEN WRCA WUNC KXJB WLWC WKY KPIC WGAL WTAE WCIV WFBC WSM KGNC KEDY KRLD KRDD KRDD KRDD KRDD KRDT KPAC | Albuquerque NM White Sands Missile Range Buffalo NY New York NY Chapel Hill NC Valley City ND Columbus OH Oklehoma City OK Roseburg OR Lancaster PA Pittsburgh PA Charleston SC Greenville SC Nashville TN Amarillo TX Big Spring TX Dallas TX El Paso TX Harlingen TX Port Arthur TX San Antonio TX Salt Lake City UT | 1320 1340 2440 1040 1355 2035 1500 200 985 1120 1055 1250 1330 1325 1290 1440 1335 1945 1280 tie 1425 1665 2105 | Walter Spaulding, Cardington OH Fred Nordquist, W.S.M.R. NM *KROD-4, Jim Dillon, Regina Sask Robert Cooper, Fresno CA Glenn Hauser, Enid OK Dennis Smith, Wasco CA Doris Johnson, Longview WA Doris Johnson, Longview WA Doris Johnson, Longview WA Bedford Brown, Hot Springs AR Eill Stanley, Deer Park TX Karl Aiken, Kingston Jamaica Karl Aiken, Kingston Jamaica Jim Dillon, Regina Sask Doris Johnson, Longview WA John Parillo, Girard OH Norris Doyle, Pittsburg CA Bill Draeb, Kewaunee WI Doris Johnson, Longview WA William Hider, Binghamton NY Richard Italiano, Binghamton NY Robert Seybold, Dunkirk NY | now WNBC now ch 8 now KWAB |

WTFDXA STATISTICS COLUMN for NOVEMBER 1968, GLENN HAUSER, EDITOR, AND THIS IS THE PAGE 2

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1235 Fred McCormack, Des Lacs ND
WOAY
       Oak Hill WV
WTMJ
                                  1730
                                        Dennis Smith, Wasco CA
       Milwaukee WI
                                  1325 Ferdinand Dombrowski, Okauchee WI
CFCN
       Calgary Alta
CHAT1 Pivot Alta
                                  1135 Glenn Hauser, Enid OK
                                                                    properly CHAT-TV-1
"CBWT" Winnipeg Man
                                  1430 Robert Cooper, Fresno CA
                                                                  later ch 3, now ch 6
                                  1595 Bedford Brown, Hot Springs AR
CHSJ
       Saint John NB
                                  1300 Frank Wheeler, Erie PA
CJCN
       Grand Falls Nfld
                                  1880 Bedford Brown, Hot Springs AR
CJCB
       Sydney NS
"CBOT" Ottawa Ont
                                  1390 Jim Dillon, Regina Sask
       Quebec PQ
                                  1410 Bedford Brown, Hot Springs AR
CFCM
CKRN
       Rouyn PQ
                                  1345 Donald Ruland, Holly Hill FL
CHAB Moose Jaw Sask
                                  1425 Mike Tilbrook, Pittsburgh PA
CMJ
       Camaguey Cuba
                                  1320 Bedford Brown, Hot Springs AR
                                  1445 Ferdinand Dombrowski, Okauchee WI
CMUR La Habana Cuba
                                                                              now CMBF
HIT
      Ciudad Trujillo Dominican Republic
       now Santo Domingo
                                  1600 Frank Hill, Gallipolis OH
                                                                              now HISD
YSU
       San Salvador El Salvador
                                  4125 Rodolfo Hasperue, Mar del Plata Argentina
XHG
       Guadalajara Jal
                                  2090 Doris Johnson, Longview WA
       México DF
                                  1955 Morris Foote, Middleton ID
XHTV
OAX4U Lima Peru
                                  1910 Otto Morroy, Paramaribo Surinam R. America TV
                                  2115 Gary Olson, Barrington IL
WAPA
       San Juan PR
YVLV
       Caracas Venezuela
                                  3785 Robert Cooper, Fresno CA
                               113030 (tie counted once)
    TOTAL for 71 stations
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Analysis. It's Dee Johnson in first place again, with 11 records. Bob Cooper is second with 8, Bedford Brown third with 5; and Bob Seybold fourth, with 4. By total distance, however, Cooper edges out Johnson for the top spot with 17460 miles, compared to 16700. Seybold also exchanges places with Brown, with figures of 7795 and 7190, respectively. As we ascend in frequency, there's a greater variety of record-holders. Cooper and Johnson each hold only about 15% of the channel 4 records, compared to 25-27% on channel 3. Some stations for which records are missing are CFCR Kamloops BC; CKBI3 Greenwater Lake Sask; XHOW Mazatlan Sin; and XELN Torreón Coah. And we could find no report of KPIC by skip! AIPA-reported records for KXLF and WAPA by C. Bay and for CMBF by J. Easter had to be omitted, since we have not been able to determine where these people DXed from??!!

| | MODITION AND INVIDENCE TO CHARMEN & IVEN INCOMED | | | | | |
|-------|--|-------|---|--|--|--|
| KETS | Conway AR | 1215 | Bill Grant, Worcester MA | | | |
| KCKT | Great Bend KS | 1455 | Jeff Kadet, Needham MA | | | |
| KOOK | Billings MT | 1385 | Carlon Howington, Uniontown OH | | | |
| KNOP | North Platte NB | 1230 | Gary Kromer, Auburn NY | | | |
| KUSD | Vermillion SD | 1260 | Bill Grant, Worcester MA | | | |
| CHAU5 | Percé PQ | 800 | Wayne Plunkett, Weston Ont properly CHAU-TV-5 | | | |
| CHAUL | Sainte Marguerite PQ | 879 | Carlon Howington, Uniontown OH proply CHAU-TV-1 | | | |
| PRG3 | Rio de Janeiro Brasil | 6615 | Robert Cooper, Lafayette CA | | | |
| HIT | | | Otto Morroy, Paramaribo Surinam | | | |
| | ADDITIONS AND R | EVISI | ONS TO CHANNEL 3 TVDX RECORDS | | | |
| WEDU | Tampa FL | 1365 | Thomas Sundstrom, Bernard ME | | | |
| KRTV | | | Stephen Dionne, Binghamton NY | | | |
| KMTV | | | Norris Doyle, Pittsburg CA | | | |
| XHQ | | | Glenn Hauser, Enid OK | | | |
| XEFB | | | Bill Draeb, Kewaunee WI | | | |

Thanks to Bill Draeb for pointing out our gross error last time in omitting XEFB, and a 546-mile error on KRTV! KMTV was also left out. I'll certainly try to avoid such goofs in the future! Mike Northam says there's a good reason for no KVUE-3 records: they probably never hit the air. He's checking. ### By all means, don't fail to report translators you"ve picked up. Even at a few miles distance, it's probably a record.

1660 Dave Siddall, Hyannis MA

WIPM

Mayagüez PR

WTFDXA STATISTICS COLUMN for NOVEMBER 1968, GLENN HAUSER, EDITOR, AND THIS IS THE PAGE 3 WTFDXA FM DX SURVEY

Well, it's a start...but I'm sure there's a lot more interest in FM stats than the response size would indicate. Still, there are outstanding data here. Respondents were Frank Merrill, Milan MI; Hank Holbrook, Fair Haven and Chevy Chase MD; William H. Bens, Cincinnati OH; Frank Wheeler, Erie PA; and your editor, Enid OK, who decided to add his Albuquerque NM totals as well. They shall be known by their initials.

| Category | FM | НН | GHE | WB | GHA | FW |
|--|--|---|---|---|---|---|
| Stations logged US stations logged Can stations logged Mex stations logged Other stations logged Where from, pray? Es stations logged Trops stations logged MS stations logged Aur. stations logged "A" channel stns lgd Channel MOST stations logged on, how many | Bermuda 46 8% 481 88% 1 0% 18 3% 94 17% | 500 487 11 0 2 Berm, PR 80 16% 416 83% 4 1% 0 0% 77 15% 100.7 13 | 496 468 15 11 2 Cuba 274 55% 201 41% 34 7% 0 0% 76 15% 94.5 17 | 276 272 4 0 0 0 26 10% 250 91% 0 0% 0 0% 52 19% 99.9 9 | 196 185 7 4 0 173 88% 14 7% 10 5% 0 0% 17 9% 99.9 7 | 65 52 13 0 0 0 0 0 0 0 0 0 0 0 0 0 |
| Channel LEAST stns Superchannel MOST Superchannel LEAST | 106.3 1 92. 40 88. 17 89. 17 90. 17 | 90.5 1 100.9 1 xx xx xx xx | 89.9 0 90.3 0 94. 56 89. 4 | 88.1 0 99. 24 88. 4 w by states, | many 0 97. 20 107. 2 /provinces: | 107.9 3 xx xx xx xx xx xx |
| US states logged Can provs logged Mex estados logged Es states logged trops states logged MS states logged Aur. states logged 88-92 MHz states lgd | 28 3 0 10 17 0 13 xx | 31 3 0 13 19 4 0 20 | 38+DC 4 5 24+DC 17 19 0 | 17 2 0 5 12 0 0 7 | 25 3 2 22 2 2 8 0 7 | 4 1 0 0 4 0 0 |

Best FM station received: FM WSUP 90.5 Platteville WI 260567 aurora 275w; HH ZBM 89.1 Hamilton Bermuda 030766 trops lkw; GHE KUNR 88.1 Reno NV 230768 Es 10w; WB WOVV 95.5 Florida 210668 Es; GHA KLAW 101.5 Lawton OK 020666 Es at 475mi; FW WJFM 93.7 Grand Rapids MI 150766 trops. +++ Best by Es: FM ZBM 89.1 Hamilton Bermuda 170768 1kw; HH KUMD 89.1 Duluth MN 170768 190w; GHE as "best"; WB as "best"; GHA as "best". +++ Best by Trops: FM WBST 90.7 Muncie IN 051267 10w; HH as "best"; GHE WIFE 107.9 Indianapolis IN 301265; WB WEAU 104.5 Wisconsin 030868; GHA KGRD 103.9 Las Cruces NM 310767 3kw; FW as "best". ++ Best by MS: FM CJOB 97.5 Winnipeg Man 130865; HH WTJS 104.1 Jackson TN 131060 50kw; GHE CFCA 105.3 Kitchener Ont 120868. Most Distant: FM ZBM 89.1 Hamilton Bermuda 170768, 1270mi; HH WIPR 91.3 San Juan PR 530kw 1540mi; GHE CKGM 97.7 Montreal PQ 050866 1420mi; WB KROB 99.9 Texas 080668 1085mi; GHA WRFD 97.9 Worthington OH 130766 1355mi; FW WJFM 93.7 Grand Rapids MI 150766 292mi. Lowest Power: FM WCMU 90.1 Mount Pleasant MI 290467 10w ERP + 10 other 10w stns; HH WXAC 91.3 Reading PA 091066 13wERP; GHE as "best"; WB WFPL 89.3 Kentucky 060468 150w; FW WKSN 101.7 Jamestown NY 150866 3kw; GHA CHEC 100.9 Lethbridge Alta 020666 245w. Best 3 states by # stations: FM OH 128, MI 84, IN 66; HH PA 89, NY 59, VA 42; GHE TX 53, CA 52, FL 35; WB OH 82, IN 61, MI 27; GHA WI 26, WA 26, IL 16; FW MI, OH, NY. Best 3 Es states: FM TX 17, FL 9, LA 4; HH TX 20, OK 11, MO 11; GHE CA 52, FL 35, NC 29; WB TX 11, FL 9, LA 3; GHA 3 overall?. Best 3 by trops: FM as overall; HH as overall; GHE TX 53, OK 32, KS 23; WB as overall; GHA NM 12, AZ 2. +++ xx=not reported; ---not applicable. %s ref. total exc. "A": US total. Until the next, 73 de Glenn

ANARC SCOPE

Ambrose Maxim 23 Lambert Street Winthrop, Maine 04364

The bi-yearly election count gave Scrimgeour: 15; Irace; 1. Not voting 4, thus the New ANARC headquarters will be moved to Canada for the first time with a new Executive Secretary K.G. Scrimgeour, 227 Hanna Road, Toronto 17, Ontario. Gray will be a genuine Asset to ANARC and will work diligently to advance and improve the Association.

With such Associations there's always the money question and here'S are the new executive views of a while back, "Will ANARC become an organization like ARRL, with paid staff to look after the administration and the benefits to DX'ers eventually? Or will it continue to be a share-the load operation with DX'ing reps. and volunteer workers doing all the work? Or hit a middle ground? "Gray adds that he thinks the biggest job now is to convince individual DX'ers of ANARC's usefullness.

Serge Neumann replaces Gray as EDXC laison, since he will be in Europe for three years or more with the armed forces will be able to meet European club leaders personally.

Under the fine leadership of Gerry Dexter the ANARC has grown a great deal in the last two years. Gerry will still be working for DX'ers as NASWA representative replacing Frank Peters. Tom Holms replaces John Callarman for NRC. IRCA President Larry Godwin replaces Tom Stoltman. Curt Webber replaces Rick Olsen for CIDX: ICDXC is now defunct. WIDXA has been disbanded. NEDXA joined and folded right-away Fly by Night Communications was refused membership No-12 Yes-2. Communications Society of Williamsville, NY., Iowa SW DX club & NYSDXA applied, but were asked to reapply in 6 mos. Newest Clubs are Latin Brass Radio Club and Batesville SW Asso., FDXC is again publishing and the president says"the FDXC is FAR, F-A-A-R, from being dead and buried." NESWLC will be printing soon with their own printing apparatus. CDXC???

AT the Boston convention, the National Radio Club announced the winners of their two yearly awards. Selected as 1967-68 Domestic DX8er of the year *** Jerry Starr of Youngstown, OH (who heads ANARC'S BCB Committee). International DX'er of the Year award went to Richard Wood Hawaii. (who is the new publisher of the ANARC bulletin "News Letter" Also heads the ANARC QSL Committee).

The 1969 edition of WRTH will have an article describing ANARC and it's goals.

DID YOU SEE ?

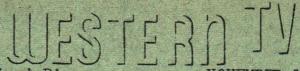
Oh to be a California TV DXer!!!! At least that is the cry from those of our membership who live in the sunny, warm west.....especially in Palm Springs. As most TV DXers know, Palm Springs just recently got its first two local TV stations -- KMIR-36 and KPLM-42. Usually when local TV comes to your hometwon, it creates big news; when you get two new stations in one year it's big news. But Palm Springs made

even bigger news as you may have heard.

A 25-year-old technician was arrested a few days ago for showing a videotape of a stag movie on the air. Nothing censored, indeed! It seems as though KPLM went off the air and viewers were greated to the "nudie spectacular" in full, living black and white. Those viewing at home reported that the film ran between 4 and 12 minutes (apparently the viewers got so involved they lost track of time) of course with none of those nasty commercial interruptions! The guilty party made the mistake of running his "DX special" on one of the stations tape machines; thinking the feed from the machine was patched out, he cued 'er up and viewed and viewed.

At last report the technician faced a fine of up to \$10,000 and a sentence of up to two years for his overtime viewing. Movies are getting more expensive all the time aren't they!!!!!

Dennis Park Smith Music Department University of California Santa Barbara CA 93106 USA



For TV reports west of the Mississippi River Deadlines: 12th of each month

Morton Meehan, PO Box 214, North Palm Springs, California 92258 writes that he saw the new KPLM-TV 42 Palm Springs testing on the air 27 September, and that it is the strongest signal ever to come into his location, in Desert Hot Springs. It was scheduled to start programs on 30 Sept., ABC and all-color. Mort also sent some news clippings about the station, and the sorrow experienced by the loss of the "Time-Temp. Revue" on CATV ch. 3 in the area cities, replaced by the new KPLM-TV on the cables. It was noted in the articles that KPLM-TV was often referred to as the "new ch. 3," and that another Palm Springs station that was to start at the same time--KMIR-TV 36 (NBC)--is delayed because of unresolved CATV agreements there. It is a shame when CATV's position is such that new local stations have to take it so fully into account. Thanks for the report, Mort--maybe KMIR-TV is on by this time.

This month's column has a few choice bits of trops, but no Es was noted in September by those reporting this time.

Glenn Hauser, in the Air Force for a short time in the San Antonio area, writes the following noted in that area:

Ne DXing possible here -- or hardly any. There are 4 or 5 TV sets and 1 FM tuner at service clubs, but either poor condition/heavily used /poor antenna. Most are equipped for UHF -- so watched a bit of KWEX-41 (Spanish) and saw something, probably image, around ch 33. Austin U's should be possible, but KLRN-9 is weaker than other "locals"; not sure where xmtr is.... Discovered class. station KMFM 96.1 hurting badly, on air afternoons and evenings only. KITE-FM runs class evenings, too.

(Thanks for info from San Antonio, Glenn. We'll look forward to news of your situation and station activity in your next location. dps)

The first report from new member:

Michael B. Northam, PO Box 605, Beaverton, Oregon 97005 Greetings group. I thought I ought to contribute something even though I've not been active in TV-FM DXing. One of the main reasons for this is that I live in an apartment house (basement apartment, naturally) which allows no external antennas. All the apartments are served with a MATV system, which I've found to be most unsatisfactory for DX purposes. MATV seems to increase the already intolarable cochannel interference problem here in the Portland area, which has locals on channels 2,6,8,10,12. Since I live less than two miles from all the local TV-FM transmitters, I can receive nothing but locals (and co-channel splatter) on the low VHF band and FM. Its impossible to null local interference with rabbit ears, also-perhaps wave traps would help. By the way, I believe that I may be one of the few persons in the club who has neger seen a UHF station! There used to be KPTV-27 here in Portland, but now that has moved to channel 12, and it appears that the KPVC-24 CP will be deleted by the FCC because construction has not begun. I've tried for trops at various times but no luck yet. Equipment includes a Motorola 19" color set, using rabbit ears or the MATV. For FM I use a Kenwood TK-140U (same antennas, plus a twin-lead dipole). The TK-140U seems to overload rather easily, producing many cross-modulation images, which is rather surprising since it uses a FET front end. This could perhaps be due to my location, though, because it performed admirably in Eugene using the dipole. I rather suspect that its sensitivity is just too high to perform well in a high-RF area such as I am in. I shall continue to try, though. Best of DX to all.

(Thanks very much for describing your area situation, Michael. It sounds as though the odds are against you in your present location with so many locals so close, but hope you get something sometime. Glad to meet you at NNRC Convention in Los Angeles in August. dps)

Dave Pomeroy, Lot # 279 Lake Quivira, Kansas City, Kansas 66106
We are temporarily living at the above address. My DX'ing days in
Lawrence are over so the following will complete the DX there:

Aug 17 WMBD-31 Peoria, Illinois 7:30 am Trops

WAND-17 Decatur, Ill. 10:30 am WICD-15 Champaign, Ill. 10:30 am WEEK-25 Peoria, Ill. 11:30 am

All DX below was received at Lake Quivira, Kansas City, Kansas location. DX in Kansas City was nil until Tuesday (Sept 24) when the UHF band produced some surprises. Biggest surprise was the appearance of three UHF translators on approximately channels 74, 76, and 79. The middle channel repeated WHO-13 as I was able to get the 10:00 ID. Signals were quite clear (little snow) when the stations were first seen at 9:50 am, but fladed pretty well by ten. Best possibility seems to be Ottumwa, Ia. which TV Factbook lists with channels 74 and 76. Am checking with them for more info. Channel 76 there is translator for WHO-13. There seemed to be CCI on channel 74 which was probably transmitted that way. Channel 74 repeats KCRG-9 and I had CCI here on KMBC-9. Could have been channel 9 in KC giving the Iowa channel 9 some trouble. Other results:

Sept 24 WQAD- 8 Moline, Ill.

WHA -21 Madison, Wisc.

KVFD-21 Ft. Dodge, Ia.

WKOW-27 Madison, Wisc.

WMTV-15 Madison, Wisc.

K74CO-74* Ottumwa, Iowa translator for KCRG-9 9:50 am

K76BZ-76* Ottumwa, Iowa translator for WHO-13 9:50 am

-79* Ottumwa, Iowa NBC

WCEE-23 Freeport, Ill.

WTVO-17 Rockford, Ill.

KUHI-16 Joplin, Mo.

* pending further investigation.
WKOW-27 came in over normally snow-free KTSB-27 while WHA-21 and KVFD21 were available at the same time by turning an indoor UHF antenna a
few inches.

Five new U's and a V highlight the latest trops opening which began last evening and closed out this morning. The results:

Oct. 7 KXNE-19 Norfolk, Nebr. 8:30 am Trops

KMEG-14 Sioux City, Iowa

KMTC-27 Springfield. Mo 9:00 pm Trops color over KTSB-27

KUHI-16 Joplin. Mo

KUHI-16 Joplin, Mo.
WEEK-25 Peoria, Ill.
WMBD-31 Peoria, Ill.

WIRL-19 Peoria, Ill. CCI noted before KCSD-19 sign-off CCI from 2nd UnID-17

Oct. 8 KFVS-12 Cape Girardeau, Mo. 12:10 am color WMBD-31 Peoria, Ill. TP at 1:10 am

WEEK-25 Peoria, Ill. TP at 4:10 am

WSPD- 6 Paducah, Ky. 1st Kentucky station KARK- 4 Little Rock, Ark.

WKZT-23 Elizbethtown, Ky. 8:30 am steady/approx. 480 mi. WUSI-16 Olney, Illinois TP

-35 Madisonville, Ky. weak with Ky. ETV net program
-21 Murray, Ky. Kentucky ETV network

Channels 21 and 35 were fairly weak, but I did get audio ID on channel 35 so I know it was channel 35. Couldn't get complete ID. WKZT-23 quite good at times and in for over an hour! Lowest of Ky. ETV's must have been channel 21 because KCSD-19 and WKZT-23 were seen at the same time with unID midway between the two.

Hope some others in this area were able to take advantage of this opening. KMTC-27 just on within the last week. I didn't know they were on until last might when they came in. An announcement at 9 apologized for poor picture on ABC programming which is now being picked up off air from nearby ABC channel (probably KODE-12).

DX was color on parents' Sefchell-Carlson color set; B&W on my

old Setchell-Carlson.

(I can't give you calls of Kentucky ETV's with my info scattered between here in Wasco, Dave--apologies. Maybe next month will provide further results from others on the 7-8 October trops. dps)

Fred Nordquist, 411 Dart, White Sands Missile Range, N. Mex. 88002

Very little TV DX since the 1st of August, so report will be brief.

July 31: WDCN-2 TN w/NET prog. 1930, WLBT-3 MS ID & "Virginian" 1935,

WRCB-3 TD 2000, unIDs on 4-5-6. Aug 4: KDIX-2 ND w/ID 1030, KXJB-4 w/

ID 1059, unID-6 1030, KTVU-2 CA w/Boating & Fishing 1435, KUSD-2 1930. Aug 8: KDIX-2 1730, KTVS-3 (New) Colo. w/IDs 1730, KOTA-3 womens shoes ad 1737, KDUH-4 NB // KOTA 1737, KXJB-4 Sports 1815, unID-5 1805. Aug 11: unID-2-4-5 2030, KATC-3 LA w/NX 2032. Aug 12 - Sept 1: Vacation to NY. No DX in Sept. or 1st 10 days in Oct. It's all Es or nilch around here. Total TV seen/hrd: 115. w/31 on ch 2, 31 on ch 3, 18 on 4, 13 on 5, 17 on 6, 1 on ch 7-8-9-10-13, and 0 on ch 11 & 12. 97 were via Es. and 3 via MS. States/Provinces: 28/3. That's the stats. 73.

(Thanks for your last skip of the season, Fred. Perhaps you will

see some off-season DX unless you are moving soon. dps)

Dennis Smith--about the only thing to report from here is that the coastal inversion along southern California has been good but not optimum. San Diego TV-FM has come in on these occasions but could have been better. On VHF TV, XETV-6, KFMB-TV 8, KOGO-TV 10, & XEWT 12 San Diego - Tijuana (175-200 mi) were there, with XEWT generally the best. My location in Santa Barbara doesn't seem to be the best for Los Angeles 2,4,5,7,9,11,13. The antenna may not help much; it is a 4-bay Gonset Rocket (performance similar to conicals) about 40 feet above ground, maybe 50 above sea level. It has been up for perhaps ten years so has certainly developed a nice coat of salt corrosion (we are a few blocks from the Pacific Ocean). Of course, KEYT 3 and its ch 8 translator are locals. On UHF, with Blonder-Tongue BTX-11A converter and the same VHF antenna with my Zonith 15" portable, the following has been seen:

KEBS-TV 15 San Diego 200mi Very good on occasion, often nothing KWHY 22 Los Angeles 95mi Poor to very poor KCET 28 Los Angeles 95mi Good

34 Los Angeles 95mi Poor KMEX

KCST 39 San Diego 200mi Fair on occasion, often nothing

40 Fontana-LA. 95mi Good-fair 52 Corona-L.A. 95mi Very poor KBSC

Some of these have announced powers, which I'm sure are directional: KEBS-15 has a million watts visual peak ERP, KCST-39 has 2.12 million watts visual and 426 kW aural ERP, and KLXA-40 uses 631 kW visual ERP.

We appear to be coming into an early rainy season (winter half of the year) so that may be the end of regular San Diego trops until spring And, a letter from:

Jim Stiles, 1820 Normandie Ave., Hollywood, California 90027 I joined WTFDXA in August. I've seen 59 stations not including locals which are channels 2,4,5,7,9,11,13,22,28,34,40, and 52 in Los Angeles, and 6,8,10,12,15, and 39 in San Diego. Four of the stations seen are the result of F2 skip. My antenna is a 25 element yagi mounted on a rotator 45 feet above the ground. My UHF converter gives 15 db gain.

Es has been excellent this summer. Trops have not been very frequent but when they do come they're excellent. Many signals have been

strong enough to become readable over the locals.

If there is any doubt about the reception of the stations that are indicated as verified, I can supply a photocopy of the verification letter or card in question given two weeks notice. All stations listed have been positively identified.

| nave be | sen bo | strivery identified. | | | (A) |
|-------------|----------|--|--------|-------|--|
| Date | Call | Location | Time | PDT | Notes |
| Gl | nannel | -12 | | | A THE PARTY NAME OF THE PARTY O |
| 6/23/68 | S KATU | Portland, Ore. | 1:15 | PM | verified |
| - 1 111 | KREM | Spokane, Wash. | 1:18 | PM | verified |
| 7/11/68 | KFAR | Fairbanks, Alaska | 4:00 | PM | verified |
| 8/ 3/68 | KUTV | Salt Lake City. Utah | 1:00 | PM | verified |
| 8/11/68 | S KDKA | Pittsburgh, Penn. | 12:05 | | verified |
| | WMAR | Baltimore. Md. | 11:59 | | verified |
| 8/15/60 | Arme | d Forces Korea Networ | k 5:58 | AM | positively identified |
| 9/00// | | Seoul, Korea | | | 6450 mi. |
| 0/20/60 | WUSN | Charleston, S.C. | 12:00 | Noon | very weak |
| 0/22/60 | MBVĀ | Green Bay, Wisc. | 1:30 | PM | very strong |
| (120/16 | annel | 3 | | | 并在本一个军队队 。在这个人的人 |
| 6/30/60 | KARD | Wichita, Kansas | 12:00 | Noon | verified |
| | KLNE | Lexington, Nebraska | 12:30 | PM | verified |
| 7/20/10 | WCIA | Champaign, Illinois | 1:30 | PM | verified |
| 7/12/60 | KGLO | Mason City, Iowa | 12:30 | PM | verified |
| 7/23/60 | KIEM | Eureka, Calif. | 1:00 | PM | verified |
| 7/24/60 | KEYT' | Santa Barbara, Calif | . 1:00 | PM | fading like Es 80 mi. |
| 1/20/00 | MIDU | Madison Wise | 3:13 | PM | verified 1678 mi. |
| 0/3/60 | KRTV | Great Falls, Mont. | 11:59 | | verified |
| 0/3/60 | WOAL | Huntington, W. Va. Harrisonburg, Va. | 12:01 | Noon | verified |
| 8/75/60 | WSVA | Harrisonburg, Va. | 12:00 | Noon | very weak |
| 9/1/00 | TTTTAN | Tem 12 roll 10900 | 10:30 | AM | very weak |
| 0/15/60 | DACR | Cebu City, | 9:00 | | positive ID 7550 mi. |
| 8/01/1/0 | 770037 | Philippines | | | saw test pattern |
| 8/35/160 | WCAX | Burlington, Vermont | 12:00 | | strong signal |
| 8/2/60 | KF.DX | Wichita, Texas | 1:00 | PM | very strong verified. |
| 0/20/60 | тетел | vision of Iran | 12:30 | PM | test pattern ID |
| C1b | a | Tehran, Iran | | | |
| 7/20/68 | annel | 4 | | AND. | 等美国的 对表现外分类 含义 |
| 7/20/68 | NDOR | Hay Springs, Neb. | 11:34 | AM | lasted 2 hours |
| 8/7/68 | LICOT | El Paso, Tex. | 11:02 | AM | weak |
| | | (C) I I I I I I I I I I I I I I I I I I | 7:15 | PM | verified |
| ~ 1 0 1 0 0 | 74 1 7 (| 111351111111111111111111111111111111111 | 1:00 | | very strong |
| | | | 12:00 | Noon | |
| 8/11/68 | MION | Cheyboygan, Mich. St. Louis Missouri | | | |
| 8/15/68 | Volum | St. Louis, Missouri | 12:00 | Noon | extremely strong verified by Hqs. Korea |
| 0717700 | WI ING O | Forces Network Korea | 6:00 | AM | verified by Hqs. Korea |
| | | Pajuri, Korea | 1400 | MOIN | In Secul. Extremely strong |
| 8/17/48 | KAPK | Ti++10 D-01 | sig | nal c | considering distance 6500mi |
| 8/18/68 | TIMIT | Little Rock, Ark. | 15:00 | Noon | weak |
| -1 10/00 | MMTI | New Orleans, La. | 12:00 | Noon | deep fades |

| Channel 5 | | | | | | |
|---|--|--|--|--|--|--|
| 7/28/68 KENS San Antonio, Tex | ex. 1:15 PM verified | | | | | |
| 0/ 3/60 KING Scattle. Wash. | 11:58 AM verified | | | | | |
| 8/18/68 WMAQ Chicago, Ill. | 1:00 PM very weak | | | | | |
| Channel 6 | | | | | | |
| 5/15/68 KREZ Durango, Colorad | ado 1:00 PM weak | | | | | |
| 6/10/68 KTVC Ensign, Kansas | 1:15 PM verified | | | | | |
| KOTV Thilas Oklahoma | 1.20 PM vonified | | | | | |
| 7/28/68 KDIO Poliance S Del | 1:30 PM verified ak. 11:58 AM verified seen twice | | | | | |
| VEDW Besument Barrer | 11:50 AM Verified seen twice | | | | | |
| 8/ 3/48 WCCI Pertiland Mains | 3:09 PM Verified | | | | | |
| 8/3/68 WCSH Portland, Maine | 3:00.35 PM Verified | | | | | |
| U/22/00 KUIN POPULANG Uregon | on 2.00 PM verified geen tuice | | | | | |
| o/2)/00 MIAL SILLEVEDOIT, LA. | 12:00 Noon very weak | | | | | |
| Ghannel 7 | | | | | | |
| 8/ 9/68 WITN Washington, N.C. | | | | | | |
| | local commercials and later by | | | | | |
| | call letters. very weak | | | | | |
| 8/11/68 WDBJ Loanoke, Va. | 12:00 Noon verified by QSL card signed | | | | | |
| | by station eng. very good signal | | | | | |
| Channel 9 | ay bearing one. Tory book signar | | | | | |
| 8/17/68 KBTV Denver, Colo. | 9:35 AM strong trop signal | | | | | |
| 8/18/68 KEZI Eugene, Ore. | 3:00 PM very strong | | | | | |
| | positively ID by call letters | | | | | |
| Channel 10 | positively in by call letters | | | | | |
| 8/4/68 WALA Mobile, Alabama | 11.15 PM WORK strong position ID | | | | | |
| | 4:15 PM very strong positive ID verified | | | | | |
| 8/ 9/68 WJAR Providence, R.I. | 7.18 PM work but along the TD | | | | | |
| , , , , , , , , , , , , , , , , , , , | | | | | | |
| 8/19/68 KOOL Phoenix, Ariz. | 7:30 PM, verified, seen twice | | | | | |
| Channel 12 | 12:00 Noon very weak trop | | | | | |
| 7/28/68 Clovis, N. Mex. | 7:10 AM verified | | | | | |
| Channel 13 | (:10 Am verified | | | | | |
| 8/11/68 WITH Bowling Green V | V 10.02 DW | | | | | |
| of 21/00 white bowning dreen, A | Ky. 12:03 PM verified by general manager | | | | | |
| 8/23/68 KRDO Colomodo Comina | of station | | | | | |
| 8/23/68 KRDO Colorado Springs 9/27/68 KELP El Paso | | | | | | |
| | 7:00 PM weak | | | | | |
| Channel 28 | | | | | | |
| 8/ 6/68 WSJV South Bend, Ind. | | | | | | |
| | Engineer of station. Signal was | | | | | |
| | just to one side of my local ch. | | | | | |
| (I) | 28 station. 1822 mi. | | | | | |
| Channel 29 | | | | | | |
| 8/10/68 KBAK Bakersfield, Cal. | 1. 1:00 PM strong verified | | | | | |
| Enannel Lo | | | | | | |
| 6/13/68 WCET Cincinnati, Ohio | 1:45 PM clear sound, no picture. | | | | | |
| | positive ID by announcement of | | | | | |
| | | | | | | |
| (It can be noted that Jim | Imig location is a TE on | | | | | |
| Angeles transmitters on Mt. Wilson. Comments??) | | | | | | |
| Best of DX to a | | | | | | |
| | 111 I I I I I I I I I I I I I I I I I I | | | | | |

Best of DX to all Dennis

WORLDWIDE TV-FM DX ASSN. Box 5001, Harbor Station. Milwaukee, WI. 53204

\$41 . Sec. 9

THIRD CLASS-news matter...
return requested.