

FCC NEWS & DATA

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

STATIONS OPERATING (AS OF OCTOBER 1, 1969)

UHF ETV	105
UHF Com	175
VHF ETV	77
VHF Com	506

television

Total Authorized Stations On The Air 863

New Stations Reported On The Air:

- WJMY-TV, ch. 20, Detroit-Allen Park, Mich., reported testing after purchase by United Artists Broadcasting
- WKPT-TV, ch. 19, Kingsport, Tenn., ABC affiliate, now on regular schedule (and seen by several DXers)

New Target Dates Reported:

- KCIT-TV, ch. 50, Kansas City, Mo., target date changed to Oct. 27
- *KIIN-TV, ch. 12, Iowa City, Ia., (Iowa ETV Net.) February 1, 1970
- KDUB-TV, ch. 40, Dubuque, Ia., ABC affiliate, March, 1970
- WSMW-TV, ch. 27, Worcester, Mass., December, 1969
- *WFYI (TV) ch. 20, Indianapolis, Ind., November, 1969
- *ch. 10, Pierre, S. Dakota, Spring 1970 (satellite of KUSD-TV)
- WJ6L-TV, ch. 22, Savannah, Ga., mid 1970

Miscellaneous Changes Reported:

- KSO-TV, ch. 17, Des Moines, Ia., - cancel CP and delete call letters
- WCCB-TV, ch. 18, Charlotte, N.C., now on 5 million watts visual ERP

FCC COMPLETED ACTION

New Grants:

- *ch. 68, Louisville, Ky. (Ky. State Board of Ed.) 562 kw.
- ch. 23, Minneapolis, Minn. (Viking TV Inc.) 962 kw. - Initial Dec.
- ch. 6, Nampa, Idaho (Snake River Valley TV) 64 kw.

Call Letter Changes:

- WJMN (TV) ch. 3, Escanaba, Mich., granted WJMN-TV
- KHBV (TV) ch. 5, Henderson, Nev., granted KLTC (TV)

New Call Letters Issued:

- Kennewick, Wash., ch. 42, granted KVEW (TV)
- *Louisville, Ky., ch. 68, granted WKLU (TV)
- *Hutchinson, Kan., ch. 8, granted KPTS (TV)
- *Iowa City, Ia., ch. 12, granted KIIN-TV
- Williston, N.D., ch. 11, granted WXMD-TV

Other Changes Allowed:

- WCJB (TV) ch. 20, Gainesville, Fla., ant. to 680'
- KNCT (TV) ch. 46, Belton, Tex., ERP to 223 kw.
- KIIN-TV, ch. 12, Iowa City, Ia., ERP to 245 kw. - antenna to 1440'
- KBAK-TV, ch. 29, Bakersfield, Calif., ERP to 77.6 kw., - antenna to 3730'
- WYAH-TV, ch. 27, Portsmouth, Va., ERP to 1460 kw. - antenna to 970'
- WFTV (TV) ch. 9, Orlando, Fla. - ERP to 174 kw.

* * * * *
* THANKS
* TO
* B. Heusmann,
* Des Moines, Ia
* Dave Bright,
* Muscatine, Ia.
* D. Pomeroy,
* Lexington, Ky.
*
* FOR
* COLUMN
* ASSISTANCE
* THIS MONTH
* * * * *

ACTION APPLIED FOR OR REQUESTED

Applications For New Stations:

- Columbia, Mo., ch. 17 (Jeffco TV Corp.) 1195 kw.
- Anaconda, Mont., ch. 2 (Capital City TV) 16.47 kw.
- Butte, Mont., ch. 6 (KMSO-TV Inc.) 100 kw.
- Pittsburgh, Pa., ch. 22 (Evans Broadcasting) 1125 kw.

Miscellaneous Requests:

- KTEM (TV), ch. 10, Ada, Okla., requests the addition of ch. *42 in place of ch. 15 @ Hugo, Okla., and the addition of ch. 15 (commercial reservation) @ Hugo-Paris, Texas.

EASTERN TV DX

Morrie S. Goldman WA9RAQ
8046 South Euclid Ave.
Chicago, ILL. 60617

For all television reporters east of the Mississippi River . . . NOVEMBER
December Deadline: November 13

Mini-Trops Week?

October turned out to be quite a month for trops- at least the beginning of the month anyway. At this writing (Oct.15), the month is far from over and only time will tell how it ends up!

The best openings seemed to have occurred on October 4th, 5th and 6th forming a kind of "mini-trops week" as Mark Lewis called it or "trops weekend" as quoted from Roger Brown. Best catches included Bill Draebs fantastic 728 mile WDCD-19 and 707 mile WVNY-22; Mark Lewis bagged 620 mile WJJY-14; Dave Pomeroy (KY) got as far north as CHCH-11 Hamilton, ONT; Dave Swanson boosted his total by 41 stations with the best being WKPT-19 at 525 miles; WDAU-22 came into view for Roger Brown from 460 miles distant. Your editor's best was WKBW-7 Buffalo, NY at about 470 miles. No report has come in from Bob Seybold yet, but a letter from Bob assured me of his success.

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Gary A. Olson, (Report from Barrington, IL location (CDT)

- | | | | |
|----------------|--|-------------|--|
| 8-17: Trops AM | WJRT-12 Flint, MI | 8-21: Trops | 2120 UnID-38, 39 or 40. I suspect a U in this area which none of us know of. |
| | EVE Tent WJJY-14, w/WCMU-14 | | 2128 WKBD-50 Detroit, MI |
| 8-18: Trops | 2200 KMTV-3 w/nx, WOW-6 w/nx, KRNT-8. | | 2145 WUCM-19, KFIZ-34, WEEQ-35 UnIDs on 62, 19 & 22. |
| | 2230 KOLN-10 w/ID | 8-22: Trops | 0630 KTTS-10 w/REEMA TP |
| | 2300 KUON-12 w/ETV pgming | | 0655 WICS-20, WEEQ-35, WICD-15 |
| | 2309 KGIN-11 (NEW) with sm pgm and ads as KOLN-10. | 2025 | WCMU-14 Mt. Plsnt, MI UnID-30 Educational UnID-38, 39 or 40 again UnID-62 w/movie UnID-35 Not WEEQ w/movie |
| 8-19: Trops | AM Good sigs from: KROC-10, WJRT-12, WILX-10, KEYC-12, & KCRG-9 thru local WGN-9 | 2100 | WLBC-49 Muncie, IN |
| | 2235 WJJY-14 Jacksonville, IL | 2200 | WKJG-33, WICS-20, WJJY-14, KDNL-30 St. Louis, MO |
| | 2300 WUSI-16 Olney, IL (NEW) | 8-23: Trops | 0630 KTTS-10 vry clear at s/on WSAU-7 w/tp Wasau, WI |
| 8-20: Trops | AM WEAU-13 w/tp, WICD-15, WICS-20 and others. | 0650 | UnID's on 4 & 7 bombed by local s/on. |
| 8-21: Trops | EVE Found weak blasts of U's lasting 20-30 secs before fadeout. Noted on many chs. | 2100 | KDNL-30 vry strong |
| | 2000 UnID-35 Ky ETV sta. tent | 8-28: Trops | 0630 WICD-15, WICS-20, etc. & WJJY-14 Jacksonville, IL |
| | KMTC-27 tent. w/WKOW CCI | 8-30: Trops | 0620 KGLO-3 Mason City, IA |
| | 2005 UnID-14 w/NBC "Ironsides" | 0625 | WTVN-6 (tent) w/tp |
| | 2010 KDNL-30 St. Louis, Mo | | |
| | 2030 UnID-33 w/ETV pgm | | |
| | 2100 WKZI-23 Elizabethtown, KY (NEW) w/ s/off | | |

Barrington log total now at 459, with five new this month.

Jeff Kadet, W3CRH, Box 732, Easton G - U. of MD, College Park, MD 20742 (EDT)
TV DX has been slim since my last report, as I began classes on the 15th. I did reach the 100 mark in log total from Bethesda, though, in the form of WLBZ-2 on MS on 9-9 at 0105 w/TP. 73 (Glad to hear you're still finding MSDXing rewarding! It's a shame more TV and FM DXers don't realize the potential of meteor scatter DXing. Those of you that aren't too familiar with meteor scatter and the required techniques can be enlightened by reading Bob Cooper's series on MSDXing, which started in September. MG)

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

- 8-12: MS 0430 WCBS-2 New York, New York 9-6; Tr 2030 WTVC-17 Rkfd IL (280) (NEW)
 0530 " " " " WCEE-23 Freeport, IL (NEW) (280)
 WKTU-2 Utica, NY + all V's in Milw & Chi.
 KYW-3 Philadelphia, PA (NEW) 9-22: Tr 2230 WVIZ-25 Cleveland, OH (NEW)
 WTIC-3 Hartford, CT (NEW) WJET-23, WSEE-35, WIMA-35,
 Es 2000 CKCK-2 Plus UnID-2 w/bw nx WKBF-61, WUAB-43, WFTV-18,
 delayed 2hrs. tentCHCT. WAKR-23 & other U to 280 mi.
- 8-13: Tr 2230 WFMJ-21, WKBF-61, WAKR-23, 9-30: Tr 2300 WHA-21 Madison, WI (NEW)
 & WUAB-43. All VG. KFIZ-34, WFLD-32, WKOW-27,
 WIMA-35, WFMJ-21, WKBN-27, etc.
- 8-14: Tr 0025 WJET-24 Erie, PA (NEW) 10-1: Tr 2050 WOKR-13 Rochester, NY (NEW) (340)
 WSEE-35 " " " 2100 WXXI-21 " " "
 WICU-12 " " " 2105 WROC-8 " " "
- 8-18: Tr 2330 WJET-24, WSEE-35, WAKR-23, 10-2: Tr 2200 WMTV-36 Milwaukee, WI (new)
 WUAB-43, WKBF-61 all G to Exc 10-3: Tr 1850-2300 Ont lowV's goog + CKCW-13
 8-19: Tr 2230 Same as last two entries, plus 10-4: Tr 0700 WHIZ-18 Zanesville, OH (NEW)
 2400 CHCH-11, CFPL-10 o/local. 0730 WDAU-22 Scranton, PA (NEW) (460)
 8-20: Tr 0745 WICD-15 Champaign, IL 0827 WINR-40 Binghamton, NY (NEW) (440)
 0800 WFIE-14 Evansville, IN (NEW) 0913 WBJA-34 " " " "
 8-22: Tr 2232 KFIZ-34 Fond du Lac, WI (NEW) 0645 to at least 1100: all stns VG
 8-23: Tr 0700 WPTA-21, WANE-15, WKJG-33, & to exc east & SE, inc., WFMJ-21
 WLUK-11. All VG. 1130 took all ants. down, chngd to
 8-24: Tr 0615 All dir. w/Chi V's near PERFECT 7' parabolic & S&A 2-13 LP,
 0630 CFTO-9 Toronto, ON (NEW) 12' higher above roof.
 0900 CKCO-13 Kitchner, ON (NEW) 10-5: T all stns seen on 10-4, + WQLN-54
 8-25: Tr 0720 WLBC-49 Muncie, IN (NEW) (NEW), WKPT-19 (NEW), WNEP-16
 8-26: Tr 0715 WMTV-15, WFLD-32, WSAU-7 all VG. 10-5: T all stns seen on 10-4, + WQLN-54
 2000 WUAB-43, WKBF-61. VG. (NEW), WSYE-18 (NEW), WSKG-46
 8-27: Tr 0200 WFBG-10 Altoona, PA w/tp -Good. (NEW), WNEP-16 (NEW), WCNED-17 (NEW), WCNED-24
 to 0300 (NEW). All btwn 1845-0200.
 0615 WFBG-10, WSTV-9, WCPO-9 + others At 0130 (10-6) WDAU-22 snow
 2230 WJET-24, WSEE-35 VG free. UnID 17 at 0015 east-
 9-3: Es 2100 UnID-2 SW, w/NBC in CST zone Not NET. Pos. PHIL?
 9-6: Tr 2030 WAOW-9 Wausau, WI (NEW) (300) 10-6: Tr 0530 WBNF-12 Binghamton, NY (NEW)
- (It's interesting to note that most of your 10-6: Tr 0530 WBNF-12 Binghamton, NY (NEW)
 best tropes hit late 10-5 & early 10-6, while best out by Chgo occurred early 10-5 &
 late 10-4. A sure sign of nature's common west to east wx movement. MG)

William J. Draeb, Ellis Street, RR#2, Kewaunee, WI 54216 (CDT)

- 9-12: Tr 0540 CFTO-9 Toronto, ON 9-21: Tr 0800 WJTY-14 Jacksonville, IL
 WCPO-9 Cincinnati, OH 0805 WICS-20 Springfield, IL
 WTHI-10 Terre Haute, IN 9-25: Tr 0600 WBIR-10 Knoxville, TN
 WHAS-11 Louisville, KY WICU-12, KFVS-12, KHQA-7
 WICU-12 Erie, PA 9-29: Au 2115 Hash on chs. 2-13 w/unids on
 WKRC-12 Cincinnati, OH chs. 2 & 3.
 1845 WKTR-16 Kettering, OH 10-3: Tr 1730 WJMN-3 Escanaba, MI (NEW)
 2125 WXIX-19 Newport, KY (Satl. of WFRV)
 2225 WKBD-50 Detroit, MI 10-4: Tr 0550 WFBG-10 Altoona, PA
 WCAE-50 St. John, IN CFTO-9 Toronto, ON
 WXON-62 Detroit, MI 0604 CHCH-11 Hamilton, ON
 9-13: Tr 0610 WCPO-9, CFTO-9, CHCH-11. 0630 KRNT-8 Des Moines, IA
 0650 WDHO-24 Toledo, OH KEYC-12 Mankato, MN
 2230 WKBD-50, WXON-62, WUAB-43 0642 KWVL-7 Waterloo, IA
 9-4: Tr 0558 WCPO-9 CFTO-9. 10-5: Tr 0540 WIIC-11 Pittsburg, PA
 9-17: Tr 0550 CFTO-9, WBNS-10, WTHI-10 CHCH-11, CFTO-9, WCPD-9,
 9-21: Tr 0510 WCPO-9, CFTO-9, WBNS-10, WHAS- WBNS-10,
 to 11, WICU-12, KHQA-7 Hannibal MO WSYE-18 Elmira, NY (575)
 0640 WGEM-10 Quincy, IL WHIZ-18 Zanesville, OH
 0755 WAND-17 Decatur, IL 0522 WTVN-6 Columbus, OH (NEW)
 WMBD-31, WIRL-19 Peoria, IL WNEP-16 Scranton, PA (630)

10-5: Tr 0552 WJAN-17 Canton, OH
 WAND-17, WLEX-18, WXIX-19,
 to WFMJ-21, WKEF-22, WAKR-23,
 WDHO-24, WKBN-27, WUAB-43
 0800 WJET-24 Erie, PA
 WEHT-25 Henderson, KY
 WBRE-28 Scranton, PA
 WYTV-33 Youngstown, OH
 WIMA-35 Lima, OH
 WSEE-35 Erie, PA
 WKBD-50, WLBC-49, WMBD-31
 WKYT-27 Lexington, KY
 WLKY-32 Louisville, KY
 WTVW-7 Evansville, IN
 WTRF-7 Wheeling, WV
 0820 WKBF-61 Cleveland, OH
 0827 WJJY-14 Evansville, IN
 0835 WICS-20 Springfield, IL
 WDCA-20 Washington, DC (NEW)
 at (663)
 0858 WPGH-53 Pittsburgh, PA (NEW)
 at (480)
 1158 WCDC-19 Adams, MA (728)
 1245 CFPL-10 London, ON

10-5: Tr 1447 WTVS-56 Detroit, MI
 1627 WXON-62 " "
 1712 WGTE-30 Toledo, OH
 1755 WVIZ-25 Cleveland, OH
 1833 WKZT-23 Elizabethtown, KY
 1845 CKNX-8 Wingham, ON
 1945 WMUB-14 Oxford, OH
 2011 WCDC-19 back in again for 3/4hr
 2020 WSWO-26 Springfield, OH
 2025 WNY-22 Burlington, VT (NEW)
 at (707)

10-6: Tr 0540 CFTO-9, CHCH-11.
 2000 WJJY-14, WAND-17, WICS-20,
 KDNL-30 St Louis, MO

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 As you can see, October was an interesting month here DX wise. There wasn't as many good openings as in September, but on October 5th, just about everything was in and the opening covered most of the daylight hours. I counted 60 U's on the tube that day, the most I've ever seen in one opening. I finally saw WTVN-6, which I pulled in on my 7-13 yagis strangely!

Dave Pomeroy, 3516 Lansdowne, Apt. B, Lexington, KY 40503 (EDT)

9-14: Tr WKEF-22 Dayton, OH
 WLBC-49 Muncie, IN
 WKJG-33 Ft Wayne, In
9-18: Tr WSBT-22 South Bend, IN
 WLBC-49 Muncie, IN
 WNDU-16 South Bend, IN
 WLIC-11 Pittsburgh, PA
 WOUB-20 Athens, OH
 0855 WMUL-33 Huntington, WV CCI
 0900 WCVN-54 Covington, KY
 WFMJ-21 Youngstown, OH
 WCET-48 Cincinnati, OH VG
 WOSU-34 Columbus, OH TP/s/on
10-4: Tr 2000 WOOD-8 Grand Rapids, MI
 2130 WDHO-24 Toledo, OH
 2140 WKBD-50 Detroit, MI
 2155 WUAB-43 Lorain, OH
 2157 WTVS-56 Detroit, MI

10-4: Tr 2200 WKBF-61 Cleveland, OH
 WTOL-11 Toledo, OH
 2235 WSBT-22 South Bend, IN VG
 2300 WCIU-26 Chicago, IL
 2325 WFBG-10 Altoona, PA
10-5: Tr 0520 UnID-12 Flint, MI ???-
 0550 WXYZ-7 Detroit, MI
 0715 CHCH-11 Hamilton, ON
 0730 WJW-8 Cleveland, OH
 0730 WKBW-7 Buffalo, NY
 0830 CFPL-10 London, ON
 WJET-24, Erie, PA
 WUAB-43 Lorain, OH
 0900 WICU-12 Erie, PA
 0930 WLBC-49 Muncie, IN
10-6: Tr 1915 WKPC-15 Louisville, KY
 (Finally! From new xmtr in
 Floyd's Knob, IN.)

Jerry Pulice, 143 Gibson Avenue, Staten Is., New York 10308 (EDT??)

9-14: Tr 2130 WAVY-10 Tidewater, VA
 WBOC-16 Salisbury, MD
 WDCA-20 Washington, DC
 WETA-26 " "

9-15: Tr 0727 WUEC-13 Tidewater, VA
 0744 WBOC-16 Salisbury, MD
 WNEP-16 Scranton, PA
 0747 UnID-57 (WCUW-57??) South
9-19: Tr 1930 WUHY-35 Philadelphia, PA (NEW)
9-22: Tr 2000 WITF-33 Herhsey, PA (NEW)
 WUAA-44 Scranton, PA
 WLYH-15 Lancaster, PA
9-23: Tr 0538 WHDH-5 Boston, MA
 0553 WFBG-10 Altoona, PA (w/tp)
 WTOP-9 Washington, DC
 0610 WHEN-5 Syracuse, NY (w/carrier)
 WPRI-12 Providence, RI
 0614 WTVN-11 Durham, NC

9-15: Tr 0615 WWBT-12 Richmond, VA
 WTVN-12 Durham, NC
 WAUY-10 Tidewater, VA
 WTOP-9 Washington, DC
 WITN-7 Wash., NC (thru WABC)
 WRAL-5 Raleigh, NC
 0645 WTVR-3 Tidewater, VA
 WMAL-7 Wash., DC
 WXEX-8 Petersburg, VA
 0700 WLYH-15 Lebanon, PA

9-23: Tr 0625 WBNF-12 Binghampton, NY
 0712 16, 22, 28 Scranton, PA
 2030 WEBW-49 Bridgeport, CN (NEW)
 WKBG-56 Cambridge, MA (NEW)
 2114 WSBK-38 Boston, MA (NEW)
 2219 WGBX-44 " " "s/off
10-1: Tr 1930 WBOC-16 Salisbury, MD
 WHP-21 Harrisburg, PA (t/local)
 WTPA-27 " "
 2000 WCMC-40 Wildwood, NY
 WNEP-16 Scranton, PA
 WDAU-22 " "
 2205 WXEX-8 Petersburg, VA
 2221 WMET-24 Baltimore, MD (NEW)
 2230 WFAN-14 Wash., DC
 2242 WMPB-67 Baltimore, MD
 2300 WCUE-23 Richmond, VA (NEW)
 WETA-26 Wash., DC
 WDCA-20 Wash., DC
 2330 WWBT-12 Richmond, VA
10-2: Tr 0600 WBNF-12, WWBT-12, WTOP-9
 WAUY-10 Tidewater, VA
 0606 WRGB-6 Schnectady, NY (NEW)
 0651 WTEV-6 New Bedford, MA
 0800 WAST-13 Albany, NY (NEW)

8V and 8U added this report. Lack of skip was more than made up by the tropes this season. 73, Jerry

David Swanson, Box 131, Romulus, NY

(EDT)

9-23: Tr 0540 WITN-7 Washington, NC (495)
 0547 WTEV-6 New Bedford, MA (310)
 0550 WRC-4 Washington, D C (260)
 0555 WRAL-5 Raleigh, NC (490)
 0603 WXEX-8 Petersburg, VA (385)
 0610 WTVB-11 Raleigh, NC (490)
 0615 WNBC-8 New Haven, CN (222)
 0648 WBAL-11 Baltimore, MD (240)
 1940 WXTV-41 Paterson, NJ (200)
9-24: Tr 0545 WHDH-5 Boston, MA (295)
 0553 WBZ-4 Boston, MA (295)
10-4: Tr 1915 WKBF-61 Cleveland, OH (260)
 1920 WUAB-43 " " "
 1921 WAKR-23 Akron, Ohio, OH (260)
 2130 WKBN-27 Youngstown, OH (230)
 2328 WFMJ-21 " " "
 2400 WTVS-56 Detroit, MI (325)
 2400 WKBN-50 " " "
10-5: Tr 0025 WSBT-22 South Bend, IN (480)
 0045 WYTV-33 Youngstown, OH (230)
 0050 WJAN-17 Canton, OH (260)
 0100 WANE-15 Ft Wayne, IN (440)
10-5: Tr 0108 WNDU-16 South Bend, IN (480)
 0145 WSJV-28 " " " "
 0200 WTOL-11 Toledo, OH (350)
 0210 WTOM-4 Cheboygan, MI (430)
 0220 WOOD-8 Grand Rapids, MI (445)
 0223 WWUP-10 Sault St. Marie (450)
 0224 WJRT-12 Flint, MI (345)
 0238 WKZO-3 Kalamazoo, MI (445)
 0332 WYKC-3 Cleveland, OH (260)
 0333 WJBK-2 Detroit, MI (325)
 0349 WGN-9 Chicago, IL (550)
 0455 WXYZ-7 Detroit, MI (325)
 0601 WBNS-10 Columbus, OH (365)
 0615 WFBM-6 Indianapolis, IN (520)
 0635 WLW-113 " " "
 0645 WEWS-5 Cleveland, OH (260)
 0659 WSLI-10 Roanoke, VA (410)
 0701 WSPD-13 Toledo, OH (350)
 0732 WNEM-5 Saganaw, MI (350)
 0755 WJIM-6 Lansing, MI (390)
 2100 WKPT-19 Kingsport, TN (525)
10-6: Tr 0655 WDBJ-7 Roanoke, VA (475)

As you can see this was a tremendous weekend of tropes-- I picked up 41 new stations in 36 hours. My log for Romulus is now at 107. The night of Oct. 4-5 was the first time I've ever gone all night without sleep, but I think it was worth it! Especially WKPT-19, which I logged before the "Digest" told me in the October issue that it was authorized to begin operations. (Your tremendous log boost should be quite an incentive to the task of DXing all night long. It feels great after a long night of DXing to know you've gained something, but feels really rotten if you've gone the night and only bagged relogs! I'm glad to see you were successful! MG)

Mark L. Lewis, 224 Honiton St., Downsview, ON

(EDT)

10-1: Tr 2158 WLYH-15 Lebanon, PA (NEW) 2200 WNEP-16, tent WQEX-16
WDAU-22 Scranton, PA
WBRE-28 Wilkesbury, PA
2215 WNYE-25 NY, NY tent
2305 WSBA-43 York, PA (NEW)

10-5: Tr 0915 WANE-15 Ft Wayne, IN
0928 WAKR-23 Akron, OH
0957 WCIU-26 Chicago, IL
1005 WLKY-32 Louisville, KY
1025 WFLD-32 Chicago, IL
1028 WSJV-28 Elkhart, IN
WTV-18 Milwaukee, WI
WJY-14 Jacksonville, IL
Also, all Peoria stns, WMTV-15,
WKBD-50.

10-5: Tr 1630 WCDC-19 Adams, MA
WSYE-18 Elmira, NY
WNEP-16 Scranton, PA
WDAU-22 " "
WBRE-28 Wilkesbarre, PA
1758 WUCM-19 Bay City, MI
1800 WCMU-14 Univ. Center, MI
1745 WKNX-25 Bay City, MI
1838 WCVE-23 Richmond, VA
Durring the evening I noted the
Scrantons with great pix as well
as 17 & 28 Phille. After WCVE
the opening fizzled out.

Roger Winsor, 718 N. Fremont Road, Valparaiso, IN 46383

(CDT)

10-5: Tr 2130 WTV-9 Cadillac, MI o/WGN
10-6: Tr 0140 WFBG-10 Altoona, PA (450)
0145 WTOM-4 Cheboygan, MI (320)
0601 WBEN-4 Buffalo, NY (420)
0602 WKBW-7 " " "

10-6: Tr 0603 CHCH-11 Hamilton, ON (370)
0615 WBNF-12 Binghamton, NY (580)
0625 WHEC-10 Rochester, NY (490)
0628 WROC-8 " " "
0700 CFTO-9 Toronto, ON o/WGN (400)

Others noted were: WJBK-2, WTRF-7 o/WBKB, CFPL-10, WJW-8, WKYC-3. UnID ch13 in well, thought it was WZZM, but they s/oned later.

Morrie Goldman, Editor

10-5: Tr 0520 WKBW-7 Buffalo, NY w/tp
0530 WJW-8 w/tp
0540 WCPO-9 tent w/AN movie theater
0618 CHCH-11 Hamilton, ON overloading!
0619 WBEN-4 Beffalo, NY
0637 WAKR-23 AKron, OH
0637 UnID-15 East
0645 WTOL-11, WJRT-12 kills 12

10-5: 0647 WTRF-7 w/ wedge tp Wheeling, WV
0651 WTVW-7 Evansville, IN
0715 CFPL-10 London, ON local sig.
0740 UnID-13 Later IDed as CKCO-13
0750 WDHO-24 Toledo, OH
0803 WKBD-50 w/IDed CB pat. Detroit
0845 CKCO-13 IDed thru WZZM w/s/on

10-7: 0030 KPLR-11 St Louis MO
10-21: MS 0430 WCBS-2 New York, NY abt 2 sec

Ferdinand S. Dombrowski, Jr., 1311 W. Madsion St., Apt. 11, Milwaukee 53204:

AFTER THAT TROPS IN EARLY SEPTEMBER, CX WERE BAD HERE UNTIL EARLY OCTOBER; AND THERE HAS BEEN NOTHING SINCE, EXCEPT ON VHF RADIO AS THE F2 SEASON IS PICKING UP. NO EUROPEAN TV YET BUT IT SHUD BEGIN AT ANY TIME NOW. ROGER BUNNEY REOPRTS PAGING STATIONS ARE BEING HEARD NOW BUT F2 ACTIVITY STARTED WEEKS LATER THIS YEAR THAN LAST YEAR.

9-2: Tr 0600 WWJ-4 DETROIT, MI 250 MI
0530 WNEM-5 BAY CITY, MI 210 MI
0700 WSAU-7 WAUSAU, WI 165 MI

9-3: TR IOWA --KWWL-7, WMT-?, ETC.
9-4: TR FORT WAYNE AND MICH.
9-6: TR 2115+ IOWA, FORT WAYNE, CLEVELAND,
LORAIN, AKRON, TOLEDO, DETR.
WFMJ-21 YOUNGSTOWN, O. 405
WKBN-27 YOUNGSTOWN, O. 405
WJET-24 ERIE, PA. 410 MILES
WLKY-32 LOUISVILLE, KY. 350

9-7: TR 0040 CFPL-10 LONDON, ONT. 345
0230 WIBW-13 TENT. TOPEKA 500

10-4: TR EVENING: ALL CLEVELAND-LORAIN-AK-
RON, TOLEDO, LIMA, DETROIT STNS.
2300 WBNS-10 COLUMBUS, OH. 340

10-5: Tr 0000+ WKTR-16 KETTERING, O. NEW
WKBN-27 YOUNGSTOWN, OHIO
WSEE-35 ERIE, PA. 410 MI.
0020+ WJAN-17 CANTON, O. NEW 380
WKYT-27 LEXINGTON, KY 400
WLKY-32 LOUISVILLE, KY
0040 WFMJ-21 YOUNGSTOWN, OHIO
WJET-24 ERIE, PA SNOW-FREE
LATER DURING MOVIE!
0200 WHIO-7 TENT. DAYTON, OHIO
0830 WDAU-22 TENT. SCRANTON, 645

ALL DAY SUNDAY THE 5TH, WAKR-23, WUAB
43, AND WKBN-27 WERE IN, ALTHO WEAK.
ON 11 AND 18 OCTOBER THERE WAS UNIDED Es,
PROBABLY FROM FLORIDA JUDGING BY 35 MHz.

 * TV GUIDE AND TV PROGRAM LISTING EXCHANGE *

 * COMPLETE (UPDATED) LIST *

Several months ago WTFDA, as a service to its members, inaugurated a television listing exchange. The result of this exchange was quite phenomenal. So many people have asked to be listed over the past few months that it was virtually impossible to provide an updated list of all those interested in participating.

Now we are pleased to say that an updated listing has been compiled and is being published on these pages. You may notice that those members who have left the club are no longer on the list. Several names of non-members will appear by their special request; even though they are not a part of WTFDA they are quite willing to exchange listings with anyone desiring to trade.

For those unfamiliar with the exchange program -- here's how it works. DXers desiring to trade their local editions or newspaper program listings for their local TV stations with others will be listed in the VHF-UHF Digest. If another member is interested in providing his edition in trade he should send a copy of his local edition or listing to the member from the area whose listing he would like to obtain. If you do not want to trade but merely want to obtain a copy of another person's area edition, write him and request a copy of that edition and provide return postage (approximately 6-12 cents via third class mail). A person listed in this column who received a trade copy from another DXer is of course obliged to send a copy of his local edition to the other DXer in return.

Please do not send excess copies of your local TV listings to WTFDA headquarters; HQ does not function as an exchange center for these listings.

The objective of this exchange (for all those who still do not understand it) is to provide members with the opportunity to gather program and station information about stations outside their own normal receiving area. Having such listings available of course makes it more easy to ID unidentified stations and also determine what are the most opportune times to look for sought after stations.

<u>Name And Address</u>	<u>TV Guide Edition or Local Listing</u>
Mark Kozlowski, 306 Riverside Ave., Buffalo, N.Y. 14207	Western New York TV Guide
Stu MacKenzie (ASWLC) 16182 Ballad Lane, Huntington Beach, Calif. 92647	Los Angeles TV Guide Herald Examiner TV Weekly Santa Ana Register TV Section
Fred Nordquist, 302 Sandra Lane N. Syracuse, N.Y. 13212	Newspaper listings for: Syracuse, Plattsburg, Rochester, etc.
Richard Clark, 144 N. Dithridge, Pittsburgh, Pa., 15213	Pittsburgh TV Guide Cleveland TV Guide
Fred McCormack, Des Lacs, N.D. 58733	North Dakota TV Guide
Randy Miltier, 1760 Whitwood Lane, #3, Campbell, Calif., 95008	San Francisco metro TV Guide N. California TV Guide
Frank Merrill Jr., 10673 Saline-Milan Road Milan, Michigan 48160	Detroit-Windsor TV Guide Miscellaneous TV Guide editions and newspaper listings from throughout the country

<u>Name And Address</u>	<u>TV Guide Edition or Local Listing</u>
Gil Morgan, 13271 Lucille St., Garden Grove, Calif. 92641	Los Angeles TV Guide Los Angeles Times Listing
Tommy Buchanan, 418 Cashua St., Darlington, S.C. 29532	S. Carolina TV Guide Florence and Charlotte TV Listings
Bill Migley, 210 S. Maple, Lancaster, Ohio 43130	Southern Ohio TV Guide
Morrie Goldman, 8046 S. Euclid, Chicago, Ill. 60617	Chicago TV Guide S. Carolina TV Guide (only a few)
F.S. Dombrowski, P.O. Box 5001, Milwaukee, Wis. 53204	Wisconsin TV Guide
David Cox, Box 16, Carrolton, Ala., 35447	N. Alabama TV Guide
Mark Lewis, 224 Honiton, Downsview, Ontario, Canada	Ontario, Buffalo and Western New York TV Listings
Richard Tidberg, Box 119-A, Rt.2, Winnebago, Ill., 61088	Rockford-Madison TV Guide Pensacola-Mobile TV Guide (a few) N. Ill - S. Wisconsin TV listings
David Pomeroy, 3516 Lansdowne, Apt. B, Lexington, Ky., 40503	Kentucky TV Guide Kentucky ETV Listings Kansas City TV Guide
Paul Ciceri, 750 Champlain Ave., Windsor, Ontario, Canada	Western Ontario TV Guide
Michael Wojcieszak, 119 Maple Grove Ave., Tonawanda, NY14151	Western New York TV Guide
Bill Heusmann, 2804 Brattleboro, Des Moines, Iowa, 50311	Iowa TV Guide Ames-Des Moines TV Listings

If you would like to be added to this list be sure to drop a card or letter to:

TV Guide Exchange
 Worldwide TV-FM DX Assn.
 P.O. Box 5001
 Harbor Station
 Milwaukee, Wisconsin USA 53204

NOTES FROM HEADQUARTERS:

Would you like to see your DX club start a "Letters To The Editor" column in the VHF-UHF Digest?

Lots of crazy (and not so crazy) questions are mailed to headquarters each month. Each has to be answered individually. Some questions are asked over and over by different people. Why not answer them through a column devoted to this purpose?

Have you got complaints about your bulletin. Is your mail service bad? Wonder why we don't have regional conventions? Maybe a column to handle these problems would answer puzzlers such as these!

How about it. Would you like to see such a column? Tell your publishing staff at HQ how you feel on this.

Conducted by
David T. Janowiak

November
TECHNI/CORNER

3661 South 46 Street
Greenfield, Wisconsin 53220

Q/A SESSION, Continued

INTERFERENCE FROM ANTENNA MAST AND GUY WIRES

Q. . . . This question, again from Bill Lipis, concerns possible changing of antenna characteristics, such as front/back ratio, directivity, or impedance because of metal guy wires or supporting mast. (Actually, I lost Bill's letter and can't remember his exact question, a problem caused by less than perfect filing system!) Bill mentioned, I believe, that some DXers favor nonmetallic supports.

A. . . . Antenna characteristics are, normally, figured in "free space". This means without influence from surfaces that could affect antenna characteristics or modify the signal from a "test transmission." Metallic objects near the antenna can influence the vertical and horizontal patterns; the question is how much.

Obviously, aluminum sided buildings, water towers, high tension lines, and even other TV masts can cause ghosts by delaying a portion of the received signal. This does not mean that antenna characteristics have changed. However, if located within a few feet of metal gutters, metal roof; or even a shingle roof with blanket insulation and accompanying aluminum vapor barrier below, antenna characteristics will change. Prudent placement of mast or mast height overcomes this problem. (If you want to delve into the problem a bit more, some antenna books use a rule of thumb such as mounting antenna one or two boom lengths above any surface beneath to insure correct pattern. Actually, this rule of thumb is rather vague. Wavelengths involved and antenna type (yagi, log-periodic, etc.) are the parameters that must be considered, but boom length seems to be the guide line used.)

But, you always have the mast itself, with guy wires close to antenna, unless you use a non-guyed mast. And this must have a slight effect on impedance, or directivity, in both planes because the metal becomes a part of the receiving system. However, any attempt to eliminate this by nonmetallic hardware seems like a waste of time. The possible improvement is so little that I don't think it's worth the bother.

While on this subject, one thing has bothered me about the design of most UHF parabolic antennas. I'm referring to those where the vertical mast support lies between the dish and transmitter (Finco, Channel Masters). This mast probably has more effect on antenna pattern and impedance, but what can be done? A nonmetallic mast would eliminate this, but how about strength? One thing I know for sure: After hanging on with one hand while trying to balance and drop into the rotor one of those 7-foot dishes and mast in even a mild breeze, I would never consider anything less than the strongest support for these monsters. In fact, I've lowered by Finco 7-footer (on a sectioned telescoping mast) for the winter and doubled the guy wires because I just can't see myself going round and round again with the insurance company explaining how wind and ice caused the system to tumble down.

FOLLOW UP

Rod Luoma notes that 300 ohm type traps for VHF in the UHF line (Techni/Corner, Sept., 1969) will attenuate at harmonics of the fundamental, therefore certain UHF channels would be attenuated also. This is, of course, correct. For example, a T-line trap for ch. 5 video (77.25 mhz) would attenuate also at 540.75 mhz (ch 25) on the seventh harmonic, 618 mhz (ch 38) on eighth harmonic, etc. So be alert for this.

In fact, any time you connect a trap, booster, converter, etc. for a primary function, see what influence it has on all channels. For example, disconnecting a low band trap like the Channel Masters (which has a specified 5 db insertion loss) might provide just enough signal increase to ID a weak high band station or low band station that doesn't need the trapping.

Rod notes that using a good quality splitter clears up VHF hash for UHF reception on his converter. The UHF output section is connected to UHF antenna, 300 ohm resistor connected to VHF antenna output section, and 2-83 input portion to his converter. (All sections are for 300 ohm line.) Loss is only 1 db (about 12%), quite tolerable if a bad case of VHF hash is eliminated or reduced. But please, get detailed data on splitters before buying.

Don't accept "low loss, high isolation". Some research I've done recently into splitters for my combined H and V system indicated intolerably high losses (7 db) and poor isolation (only 6 db) in some models, even though claims were fantastic.

VERRRY EEINTERESTING

The October, 1969, Consumer Reports contains a very interesting item indeed. After much prodding by happy Heath Color TV builders and kit-building buffs who in general had always praised Heathkit products, CR finally tested a Heath Color TV. (CR hadn't tested Heath color sets before because, they claimed, handling of pix tube and possible debugging could be dangerous.)

And, in two words . . . NOT ACCEPTABLE. This supposedly should make the faces of several members a bit red!! Or does it?

Briefly summarizing CR findings: (1) Overall picture was worse than any large screen TV tested in last two years; (2) Picture was fuzzy, lacked sharpness, and was generally annoying to look at. (Two photos of a RETMA test chart were shown, one from a set with proper pix clarity and the other from a Heath, with obvious fuzziness.); (3) Color fidelity was outstanding and ease of adjusting normally difficult flesh colors was excellent. Minor gripes about no safety interlock, mislabeled part, and a defective part were voiced.

Heath bought two GR 81 sets, the largest (23") and most expensive color kit at \$539.95. Findings were identical for each. One set was returned to a Heath Service Center with complaint of poor color and BW picture. Set returned unchanged. CR replaced all circuit boards, checked and returned all key circuits three times; no improvement. CR's final comment was "kits' poor picture quality makes them not worth discussion".

Indeed, there's a lesson here someplace, but darned if I know what it is! (CR voiced a lesson that you should never buy on the basis of brand only; for CR had high praise for the Heath AR15, actually far and away the best ever, and also for the individual audio and FM tuner kits that comprise the AR15, which were reviewed in Sept.)

I'm quite puzzled as I've seen Heath color sets at friends homes and can say honestly that I did not notice a fuzzy picture. I have shown this article to several friends who built Heath sets (all electrical engineers), and they are puzzled also, since they all claim their Heath sets are superior in all respects when compared with other color sets they have viewed (never side-by-side). There are, of course, only two possible answers: (1) CR's findings are correct and do apply to all Heath color sets. The incorrect evaluation pointing to Heath's superiority by owners then must be attributed to pride, or just being fooled. Maybe owners (and myself included) have been fooled by excellent color purity as CR suggests; possibly comparisons always were against a non-Heath color TV that wasn't correctly aligned.

While this seems incredible, imagination can be most interesting. I've heard DXers brag that WHAT-TV was "bombing" in, but a look at their photos of it indicates that WHAT bombed out!

Curiously, I have been in Heath's Milwaukee Service Center/Display room often, and have wondered why they allow such a lousy picture on their demo models. Fuzziness, poor resolution, etc. always have been apparent on all sets (chassis are essentially identical except for recent AFT), but poor antenna or distribution system was suspected. I even commented to the salesman that they were missing the boat by allowing such a poor pix when I knew(?) they could do better.

(2) Of course, there might have been bugs only in the two models CR tested, but this seems incredible. It will be interesting to see if Heath has a comment. We'll have to wait and see.

Maybe the fault is in design of the 295 in. models only, like a high voltage bug. I don't have schematics for the latest models, so I'm not aware of the latest designs.

WESTERN TV DX

November 1969

Dennis Park Smith
321 Santa Barbara St.
Santa Barbara, California
93101 U.S.A.
Deadlines: 12th of each month

If our single report this month is any consideration, Es seems to have fallen over dead after the 3rd and 4th of September. There was a little Midwest tropo in early October, and some MS was dug out here and there. It was apparently a very dull month, with the exception of the following reporter's patience.

Bob Cooper, Jr., 6221 Norman Road, Oklahoma City, Oklahoma 73122 (8 Sept-7 Oct) (CDT)

Aside from a few mornings when I dragged myself out early enough to MS DX, the report period was a bust. I did add two new definite loggings on channel 7 MS (WMAL-TV Washington, D.C. at 1140 miles and WDBJ-TV Roanoke, Va. at 985 miles) during the period, and since both came on dates when MS activity was random, and low, it shows some promise.

Sept 11 MS 0454 WSB-2 color bar with station ID overprint (900 mi); 0527 WMAL-type test pattern (ch7 MS) but a few mins. before WMAL- normally signs on; 0534 equally unusual ch7 TP burst, see Oct CCI; 0549 WMAL-7 1-sec. burst; 0617 TP burst WBBM-2 Chicago (697 mi); 0626 TP burst WMT-2 Cedar Rapids IA (575 mi); 0627 TP burst WBAY-2 Green Bay WI (890 mi); 0631 Indian-Head TP ch2 burst (who has one at this time?); 0633 ch2 burst, Crusader Rabbit (who?). 9-12 MS 0625 WMT-2 TP burst; 0626 WBAY-2 TP burst. 9-13 MS 0300-0500+ many bursts (who runs movies ch2 Sat. AM (fri nites +) until at least 0500?); 0519 TP burst WBBM-2; 0536 burst WSB-2 Atlanta color bar w/ID, WJBK-2 Detroit TV2 TP burst (again 0544); 0542 TP burst WLW-D 2 Dayton OH (785 mi) (good photo!); 0613 ch7 MS of wedge-type TP, either + or - 10 kc offset. 9-14 MS 0548 WJBK-2 (also color-bar tester, one wedge-type TP and someone programming this early on Sunday!); 0606 WLW-D 2; 0614 0614 WBBM-2; 0619 ??? IH TP (what type pattern dies WTWO-2 Terre Haute use? Hours?); 0624 WSB-2; 0632 ??? program burst ch2 (Agriculture USA!); 0652 WBAY-2 TP (on 0600 week days TP, switch to color bars 0627, start sign-on sequence 0628, pgm starts 0630, per observations here); 0703 ch2 oversized IH TP; 0732 WMT-2. 9-15 MS ch7 burst (movie); 0543:30 wedge TP burst, probable WMAL-7. 9-16 MS 0513 ch7 burst, probable WDBJ-7 VA; 0529 TP burst WTRF-7 Wheeling WV; 0612 TP burst WBAY-2; 0613 ch2 IHTP (also seen as early as 0601 some days); 0617 WMT-2; 0620 WBAY-2 in sign-on sequence; 0630 WBBM-2 ID. 9-30 MS 0614 TP burst WBAY-2; 0618 TP burst WMT-2; 0626 WBAY-2 w/call slide 1 min. early!

Oct 3 tropo 0900 WWOM-26 New Orleans (575 mi—first UHF beyond 350 mi in weeks!); 1000 ??? my mystery ch 36, beating against near-local KGTO Fayetteville, peaks due east from here—third time in as many months. 10-4 MS 0549 ??? sign-on w/NAB slide, followed by 'TV Chapel' (could this be WJBK-2?). 10-6 tropo—first really cold front of season formed N-S line and moved east stretching as it passed OKCity from central Tex, east of OKC, to Chicago. AFTER it passed, and on the cold side of it...2040 WJY-14 Jacksonville IL good to VG (505 mi), unID ch 15 & 18, KDNL 30 St. Louis good to exc. (458 mi), WFLD 32 Chicago fair audio poor video (697 mi), WCIU-26 Chicago fair-good audio poor-fair video (697 mi) (Interesting to note superior WCIU Chicago UHF signal, after WFLD et al. move to taller transmitting site!); 2117 WEEK-25 Peoria IL good to excellent (575 mi); 2141 WMBD-31 Peoria fair to good, and unID ch 23; 2144 WAND-17 Decatur IL good; 2154 WICS 19 Kansas City MO excellent at sign-off (305 mi); 2243 WIRL-19 Peoria fair to good. 10-7: Tropo 0026 only WAND-17 with late movie left on air; they had CCI at times but never strong; suspect WTVO Rockford IL. MS 0440 WDBJ-7 TP 1-second burst (985 mi). Tropo 0534 WJY-14 Jacksonville back on with TP (they sign on at 0557 CDT and start programs 0600 with S.C. ETV net stuff); 0535 WAND-17 IL on with call slide, then blank carrier, to color bars 0643; 0613 KHQA-7 Hannibal MO with TP, program start 0630; 0620 WICD 15 Champaign IL with TP; 0621 WICS 20 Springfield IL on with TP; 0623 WMBD-31 Peoria on with call slide and 1-kc test tone; 0650 WEEK-25 Peoria on with Sun-Burst pattern/call slide, program start 0657.

And that is the month. 73.

(While it may not have seemed like a good month, your persistence has at least paid off with two new ch-7 MS catches. dps)

Best of DX to all

Dennis

P.O. Box 5001
Milwaukee, Wis.
53204

DX MAILBAG

Time again for another visit to that dusty (and chilly this time of year) corner of the WTFDA mailroom for another peek into the club mailsack!

A couple of new members to welcome this month:

Perry Allen, County General Hospital, Ward G-2, P.O. Box 1,
Howard, Rhode Island, 02834

Peter Kuran, 173 Farley Ave., Fanwood, N.J. 07023

And for those of you still trying to keep your club membership list up-to-date please note that George Spachman is now residing at 1649 W. Green Leaf in good ole Chicago. Bill Heusmann is now back at Drake University studying Radio-TV production; address is 2804 Brattleboro, Des Moines, Iowa, 50311. By the way, Bill (like many of us who went to college or special training schools) is still tuning the bands but not too frequently. He says "With my trusty Knight 'Three Star' antenna hanging from a pole lamp I'm managing". (Those pole lamps are becoming more famous for antenna masts rather than lighting ability nowadays -- aren't they!)

Happy to add 14-year-old Mitchell Donock to the WTFDA ensemble. (We certainly seem to be getting a good deal of young blood lately - which is indeed good to see!) Mitch has spent most of his time on shortwave and BCB DX listening. However, I'm sure he'd like to have a little advice from some of the veterans on what to look and listen for on TV and FM.

An enthusiastic note from East Lansing's Roger Brown tells us to watch for him on WJIM-TV, ch. 6, Monday through Friday at 12:15 to 12:30 P.M.; as we've mentioned before Rog appears on TV on a number of stations from time to time. He's just as spirited about DXing as he is about performing on the tube as you can guess from this excerpt: "DXing is a ball. I've been listening to BCB, hams, FM and TV for years. I think TV has been my favorite. In fact, I know TV has been my favorite mode of DXing. Now, I'm really beginning to 'get serious' about the hobby. My wife has been very understanding (she explains to worried strangers that I'm just doing my own weird thing)." (Rog -- a lot of our wives, parents, and friends have learned to be understanding about this "DX Disease" we're afflicted with - hi!)

It was your editor's pleasure to read a recent clipping from the Denver Post entitled "Distant AM Listening". The author was none other than William Glenn (better known as William Glenn Hauser) who gave our WTFDA a nice plug after providing Denver readers with a good look at what DX had been snared there during the summer. (Glenn -- suggest we send someone else to Thailand - WTFDA needs you here in America!)

Bill Lipis of El Cajon, California says he'd like to see WTFDA conventions held during the summer so more people could attend. (He likes the month of August!) Actually July or August would be the best times (witness the convention dates of other DX clubs) but this year the parties volunteering to sponsor our "Get-Together" could only hold it at one time -- at the end of May. Wait till next year Bill -- maybe we can get a better time arranged for you and the others who can only make it in midsummer!

As a closing note Gary Olson informs this department that an article he prepared on TV and FM DX has been accepted for the new Communications Handbook 1970 which is published by Popular Electronics. Suggest you keep an eye out for it. Our WTFDA will likely be mentioned somewhere within the article.

We're out of space (and mail) for another month. Remember to get those lead-ins checked out and repaired before the winter snows! And let your mailbag hear from you! *****

FM DX for November 1969

FM DX

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

Dennis Smith 321 Santa Barbara St. Santa Barbara, California 93101

I did no real DXing this summer because of study at Berkeley. I did take one day, 17 Aug., to go up 3849 foot Mt. Diablo with portable radios. Result was about the same as a few years before--too many San Francisco area locals to get much distance beyond 150 miles. Farthest was KSRN 104.5 Reno, Nevada at apx 180 miles, also on a high mountain with KOLO-8, so not surprising. Only 49 FM stations were heard overall. Home in Wasco late Aug - mid Sept, and hrd 88.5 San Francisco (225 mi) back on after being silent for a few years, the 110kw voice was KXXX, now KQED-FM. Also heard new KLOM-FM 92.7 Lompoc (75). Remember my mystery XETRA 91.3 last year? Nope, never solved it, but now I have another: KFAC-FM 92.3 LA is heard on 93.1 with a better signal than its regular 92.3 signal, and different direction-WSW (KFAC is itself SE), so doesn't seem like image. On 9 Sept. I took TV and FM gear (including my Fisher FM-90X mono tuner and Swan 10-element log periodic FM yagi) up to 6900 foot Sequoia Crest, a town in Sierra Nevada, to a friend's cabin. The location looks good but higher mtns in area impede reception. Stations heard years ago with rabbit ears were heard very clearly this time (52 FMs altogether), but not many more than before. To south, a little Los Angeles was heard (140 mi) and as far north as San Francisco (245 mi), many of these enjoyably clear listening, but no further distance. On the way back to Santa Barbara, stopped again at 5084 foot Pine Mtn Summit, but Sacramento-Stockton not heard as was last winter there, so drops CX was helping then and not now. Wasco total 172.

Bill Bens 5575 Spruce Wood Drive Cincinnati, Ohio 45239

Hello again. First of all, I'd like to mention that I agree 100% with RWW about paragraph form of this column. I think the FM section is the best organized column in the whole bulletin, and no space is wasted either. Amen! (Tx for the compliment Bill. RWW) Back on 8/17 I got a new FM rig, a 13 tube Fisher 200-B tuner and it's quite a bit more selective and sensitive than my ancient Pilot, especially on the educ. band. I can get a stereo copy 98% of the time from CKWW 88.7 @241 mi. Also, all my overload is gone now so I think I just might purchase a booster. Now to DX highlights: The big 7-10-15 tropics just wasn't around here, only traces of something unusual came on 7/18 2227 WSAU 95.5 Wis. (468); 2300 KBUR 107.3 Iowa (360) w/wx; 2321 KROS 96.1 Iowa (443) w/chicken rock. Brief Es on 7/26 while on phone w/Don Eggert. WRLJ 96.9 Fla and WIOD 97.5 both w/IDs @1759. 7/29 produced some very interesting short Es to the east: 1538 WPGC 95.5 Md. w/rock; 1542 WTOP 96.3 DC w/nx (only 402 mi); 1544 WTPG 96.9 NJ from the Steel Pier; 1546 WGAY 99.5 DC; 1547 WASH 97.1 DC; 1559 WAMU 88.5 DC o/WAUB; 1605 WITH 104.5 Md w/Balt. Elec. spot; 1614 WRCP 104.5 Pa. w/rock. Tropics on 8/8 produced best class A to date WKAI 100.1 Ill (350) @2341. The 8/12 MS DX TESTS were great: WCAL & WOI heard quite often on MS bursts and got WDTR on tropics. It would really be great if we had more stations to do this next year. 8/24 new best catch @2353 KNUJ 93.1 Minn (618) w/whalloping signal. Unn KEYC 99.1 Minn. in like gangbusters @2359 s/off. Another surprise on 8/26 WNAV 99.1 Md. @0530 (428) w/wx // to AM tns to Frank Merrill tip. 9/25 1531 WAUP 88.1 Ohio now regular here w/rock (2.88kw/209 mi) and I called them up. Don't think the guy believed me, hi. 9/25 1204 WNIU 89.5 Ill. (2.5kw/284 mi) w/nx. 9/26 WSMC 90.7 Tenn. @0751 w/inspiration. Just missed Ga. rats! 0800 Unp-WIOS 99.9 NC pushing beautiful \$ signal. Totals now at 427 and rising (all confirmed by tape). This summer was productive with 48 additions in June, 31 in July, and 25 in August. With my new rig, there's still plenty to be fished out. Til next time, 73. Ed NOTE: Unn means unneeded.

Dave Janowiak 3661 So. 46 Street Greenfield, Wisconsin 53220

FM, as well as TV DXing time has been nearly non-existent here. A few good tropes days were indicated, topped by a beautiful opening on October 3-4, but remodeling of family room/DX room plus participation and spectator sport activities reduce DX time to almost zero. New local WLIC 104.9 Kaukauna, Wis. was "stumbled" onto during a listening-only FM session. DX news is a smattering of DX on the great opening of 10/4. I "smelled a rat" when while making a routine signal strength test just before church @0715 CDT I noted a tremendous signal on 93.7 to east. Since WJFM wasn't due on for a few minutes, I rotated antenna to west and noted 4 or 5 stations on 93.7. With antenna west, WJFM came on and pinned the S-meter off the back of the antenna! Thus, WJFM was more than 20db stronger than average off the back. I never did log others, probably WKJF Pittsburgh, WBLK, etc. After church, with $\frac{1}{2}$ hour to DX before a bowling match, I logged WGR 96.9 Buffalo on V ant. only directly thru powerhouse WIAV Grand Rapids. WGR wasn't noted on H ant., and only WGR was noted on V w 3db (50%) stronger, although 5 times farther! Oh yes, just before leaving @0930 for bowling, CHFT 98.1 Toronto was logged at 500 miles. Signal was buried in noise on H ant., but local quality on V. Tropes in 400-500 mile range, but very weak, was noted again at 1200. Apparently, conditions were great from 2200 on 10-3 right thru to noon 10-4, so it was just a plain case of not checking on 10-3 PM. If I had known of the ex, all-night sessions would have been in order. (How true Dave. Check my catches later in the column. RWW) On 10/SAM @0710, 8 bursts up to 2 seconds long were noted in 2 minutes while checking signal strength of local WRVB Madison, which, curiously, wasn't on. Ms with a good receiver and antenna is almost always there; all you have to do is find an open channel, which is almost impossible here in the midwest. 73's Dave. (Tnx for the nice comments Dave. RWW)

Joseph Fela, Jr. - 167 Goodwin Avenue - Newark, New Jersey - 07112

During the last month of the season has been good. All loggings in EST: 8/22 local WBAI 99.5 off @2300 for a change, leaving a weak station on 99.3 which seemed to be Harrisburg, call sounded like WSLN (Note WSFM Joe RWW). 8/23 2301 s/off WGET 107.7 Pa. w/WSNJ muller; 2345 WRCH 100.5 Conn. finally; 2357 s/off WMNB 100.1 Mass. (they were very consistent in late Aug. and most of Sept.) 8/27 2308 WHCU 97.3 NY w/Mets BB, some QRM from a PoP test on the channel, probably WMVB. 8/28 0017 WHUC 93.5 NY at end of Mets BB; 0029 WHRL 103.1 NY w/Expos game; 2300 WBT 107.9 NC and WNCT 107.7 NC both noted; 2328 WRAL 101.5 NC good. 8/30 2322 Phillies BB all over the dial: 92.1 WBPZ, 94.1 not WIBG, maybe WKOK?, 96.1 WEST, 100.1 WLBR, 101.3 WGAL and 106.5 WHLM. 2359 WBIV 107.7 NY w/progressive rock, but verie sez this was an ET. They are religious, part of the "CBN" group. 8/31 0106 WWSC 95.9 NY very weak, never thought they would make it down here; 2316 WGMS 103.5 DC w/WRFM off; 2359 s/off WFMV 103.7 Va. 9/6 2329 ID of CJIC 100.5 Ont. on Ms, only I thought I was on 100.3 at the time. 9/14 1928 WUUH 91.3 Conn. w/WFMU 91.5 off. WFMU now has a very limited daytime sked compared to their 22 hour day during summer. 2230 s/off WRCM 92.1 NC. 9/15 0542 WRBS 95.1 Md. o/WGPA w/WRMJ apparently not on yet. This is a religious station, but has many local spots; 0600 WNNT 100.9 Va. w/very nice sig. 10/5 1836 WOUB 91.3 Ohio finally, had a cw program for the most part; 2135 WYDD 104.7 Pa. noted in spite of WSPK/WBOC still being on; 2157 WREO 97.1 Ohio, 2207 WWJ 97.1 Mich; 2302 WBIV 107.7 ID; 2306 WWGO 103.7 Pa s/off; 2315 CHSC 105.7 Ont. in spite of local WHBI 105.9 w/good mx. I thought they were cw. 2329 WJAS 99.7 Pa; 2330 CKFM 99.9 Ont. good at times; 2359 WWOR 100.5 NY. 10/6 6008 s/off of a Canadian on 91.9 or 92.1, probably CKPC 92.1 judging by the time; (agreed RWW) 0014 WCOV 92.3 Ala. w/Hit Parade 69 format. This is my best trop distance @850 mi. Can anyone explain to me why they would come in while other action was from a different direction? Nothing else apparent from the south at time. Ang who on 92.3 started a nxcast @0014 u/WCOV? Call sounded like "WCOR". May be WCAR/WCOL?

Fela (cont'd.) 0030 WMMS 100.7 Ohio weak; 0049 WGPR 107.5 Mich. at times thru WBYO; 0100 CKDS 95.3 Ont.; 0115 KQV 102.5 Pa.; 0141 WWWW 106.7 (W-4); CFCA 105.3 Ont. @0205; 0400 WYSL 103.3 NY so strong I thought they were semi-local WPRB; 0422 WNYR 101.3 NY good; 1530 trop. still good. Noted WEEP 107.9 Pa. blasting WMMM/WXTC right off the dial. Never thought that would happen. 73 for now.

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

A heavy work schedule and other activities kept my loggings down. Apparently, however, ex were not up to par for September anyhow, so doubt I missed very much. 9/8 0240 WMC Memphis \$\$ quality for a change. 9/11 0713 WFWM 93.7 MS burst w/end of nx roundup, segue to Rod McCarthy Show. For all of their 500kw power, they far from dominate 93.7 for MS here, even tho the distance, 950 mi. is optimum. 9/12 0603 WTMA SC (1025) 95.1 w/local nx, ad. MS. 0709 WOFM Greenville, Tenn. (700) 94.9 w/WOFM Wx, MS. 9/16 2 UNID on 94.9, one spot for Alford Chevrolet, @0530, one for Phoenix National Bank @0543. Who? 9/29 0516:30 WFCJ Miamisburg, Ohio 93.7 ID w/Ohio Valley, 925 mi. 9/30 0601 ~~W~~ WFCJ 93.7 again, MS. 10/3 0920 WACO Texas 99.9 nx, trop, 0925 WJMI Jackson, Miss. w/YL annr. @505 miles. 10/4 0525 WBLK DePew NY 93.7 MS, 1195 mi., 0630 KTBC 93.7 Austin, Texas trop, good @325 mi., 0731 WFWM 93.7 MS again. 10/6 2050 KCFM 93.7 St. Louis trop (458). 10/7 0100 KGRC 92.9 Hannibal, Mo. (500), 0400 KCFM 93.7 St. Louis, steady, but poor level tropo, 0420 WQMS (fitting call letters!) 96.5 on queer MS burst. Started 0420, ran thru 0431:30 w/heavy doppler fading signal. Youngstown, Ohio @990. 0435 KXTR 96.5 Kansas City to clean up the last of the KC stations for me (297). 0520 KHOZ 102.9 Harrison, Ark. trop. Is anyone sufficiently interested in FM MS thru the winter to put up a stacked array of at least 2 ten element FM yagis, and coordinate with me on dates and times for random FM MS observations? If so, please drop me a note directly.

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

Plenty of DX to report for once, hope I have enuf space, as this is my last stencil. 8/19 WEKM 88.9 Ky, new freq. for me, @19:30P ID; 8/27 WTIM 92.7 Ill. @0730 w/ID, nx; WGMZ 107.9 Mich. @0800 w/ID/spots; WOSU 89.7 Ohio @0830 w/clx mx, ID; WBRB 102.7 Mich. w/local WGID muller logged 0945-1000, no answer yet; WQRS 105.1 Mich. w/6kw WEAW muller easily @1000 ID, nx; WKNR 100.3 Mich. also logged 1010 w/local WFMF muller. 9/19 WPOK 103.1 Ill. noted on RS for first time @0930, s/off @2200 daily. 9/20 2 good catches: WHJE 91.3 Carmel, Ind. @0955 w/RR and "Radio 91" slogan 350w; WGRE 91.5 Greencastle, Ind. w/115w ID/promo for RR @0956. 9/24 WIUC 98.3 Winchester Ind. @1035 w/ID end of nx; WBKE 89.5 3kw No. Manchester, Ind. @1700 ID/MoR mx, good signal, then WVUR came on clearing them out. 9/25 WBCH 100.1 Hastings, Mich. @0925 w/ID, first 100.1 for me. 9/26 WBRN 100.9 Big Rapids, Mich. @0935 w/ID, only 2nd 100.9, tnx to strong 100.7/101.1 combo here daily; WTWC 103.9 Urbana, Ill. 1001 ID; WSMI 106.1 Litchfield, Ill. @1045 w/ID/promo. 10/4 a great opening: WLEX 98.1 in Lexington, Ky @2135 ID/RR in \$; WFIN 100.5 Findlay, Ohio w/Cincy FB, local spots @2145; WTOF 98.1 Canton, Ohio 2155 relgs mx, then nx; WJMK 98.3 Plainfield, Ind. completing 98.3 Indianans @2200 s/off; WIFF 105.5 Auburn, Ind. @2200 w/ID/cw mx. 10/5 WKWK 97.3 Wheeling, WVa @0050 w/RR, local quality, WKLO 99.7 Louisville, Ky @0100 s/off; WFRF 98.5 Cleveland @0100 ID "Your community involvement station"; WCJW 104.1 Ohio 0105 wx for Greater Cleveland area/cw mx; WKRX 106.9 Louisville 0108 w/request pgm, RR; WCSM 96.7 Celina, Ohio @0110 s/off, also WMER 94.3 @0115 w/RR, promo, ID, same city; WAKR 97.5 Akron 0130 MoR/ID; WKLR 99.9 Toledo poor sig w/RB mx/jazz @0140 ID; WWGO 103.7 Erie w/progressive RR @0200 ID in \$; WBFB 92.5 Rochester, NY @0205 nx end/ID "Your constant mx companion"; CHFI 98.1 Toronto @0218, ID \$MoR mx; WNOB 107.9 Ohio 0231 ID, Brother John w/RR; CKPS 92.1 Ontario 0608 w/ID; KDKA 92.9 Pa. 0608 local bank spot/ID; WZAK 93.1 tent. Polka mx 0609; WHBC 94.1 Canton, Ohio 0615 w/wx for Canton; WGR 96.9 Buffalo 0640 ID "\$97 WGR"; WDOX 102.1 Ohio 0645 ID, then religious pgm; CHUM 104.5 Toronto 0655 ID, Prog. RR; WBLK 93.7 NY 0700 ID; CKLW 93.9 Windsor, Ont. 0700 ID; WBEN 102.5 0715 ID, sports. 28 new stns on 10/5. Not bad for a novice. Totals now 310 hrd, 13 states, all trop.

STATISTICS

Glenn Hauser NOVEMBER
1312 W Oak Ave 1969
Enid, OK 73701 CHANGE

No more guessing on DX distances! Up till now we've had to rely on applying ruler to map, except for a few forays into the intricacies of spherical trig. Inevitably, there is inaccuracy, and possibly in a few close cases, the record went to the wrong person. Now, thru the generous offer of a fellow DXer, EXACT computer-calculated mileages--using exact transmitter locations--and bearings, too, will soon be available for all US and Canadian TV stations. There will be a nominal charge of \$1 for paper, postage and trouble. Interested? Please contact me. If possible, include your latitude and longitude, to the nearest minute. with City Hall or on a USGS quadrangle map for your coordinates.

FM RANK

Rank	Stations	States	Provinces	Countries	DXer
1.	501	38+DC	4	4	Glenn Hauser, Enid OK
2.	427	22+DC	2	2	Bill Bens, Cincinnati OH
3.	329	29+DC	1	3	Bob McArthur, Fairfax VA
4.	312	28	3	2	Bob Seybold, Dunkirk NY
5.	240=	29+DC	1	3	Larry Vogt, Springfield VA
--	196	25	3	3	Glenn Hauser, Albuquerque NM
6.	112	11+DC	2	2	Fred Nordquist, Syracuse NY
7.	67	4	1	2	Frank Wheeler, Erie PA
--	62	8	0	1	Glenn Hauser, Madison WI
--	55	18	1	3	Fred Nordquist, W.S.M.R. NM
---	55	13	0	1	Glenn Hauser, Denver CO
---	54	7	0	1	Fred Nordquist, Tulsa OK
8.	33	4	0	1	John Ramsey, W Hartford CT
--	31	9	0	1	Fred Nordquist, El Paso TX

Several notable names are missing...let's try to correct that in the next listing, in the January issue. On December 1, compute your totals thru the day before and mail to me.

CHANNEL 2 TROPO TVDX RECORDS

Call	Location	Miles	DXer, Location	Comments
WAIQ	Dozier AL	240	Clarence Rareshide, New Orleans LA	now WDIQ
KNXT	Los Angeles CA	335	Robert Cooper, Lafayette CA	
KTVU	Oakland CA	310	Charles Wood, Ashland OR	
WESH	Daytona Beach FL	550	Ed Bourgeois, Norco LA	
WTHS	Miami FL	665	Clarence Rareshide, New Orleans LA	
WSB	Atlanta GA	615	Carlton Howington, Homestead FL	
KBOI	Boise ID	395	Gene Webb, Seattle WA	
WBBM	Chicago IL	660	Glenn Hauser, Enid OK	
WTWO	Terre Haute IN	175	David Pomeroy, Lexington KY	
WMT	Cedar Rapids IA	560	Robert Cooper, Oklahoma City OK	
KCKT	Great Bend KS	275	Larry Godwin, Amarillo TX	
WBRZ	Baton Rouge LA	565	Glenn Hauser, Enid OK	
WL3Z	Bangor ME	270	Ronald Boyd, Truro NS	was WTWO
WMAR	Baltimore MD	620	Denny Cline, Eastport ME	
WGBH	Boston MA	460	Frank Wheeler, Erie PA	
WJBK	Detroit MI	250	Dave Janowiak, Joliet IL	
		tie	Bill Draeb, Kewaunee WI	
KFEQ	Saint Joseph MO	325	Glenn Hauser, Oklahoma City OK	now KQTV
KTVI	Saint Louis MO	445	Robert Cooper, Oklahoma City OK	
KOOK	Billings MT	235	Gordon Simkin, Idaho Falls ID	
KNOP	North Platte NB	365	Glenn Hauser, Enid OK	
WGR	Buffalo NY	475	Dave Janowiak, Joliet IL	
WCBS	New York NY	645	Ron Boyd, Truro NS	

WKTV	Utica NY	205	Clarence Day, Westerly RI	was ch 13
WUNB	Columbia NC	100	Kelly Andrews, Goldsboro NC	now WUND
WFMY	Greensboro NC	735	Ed Bourgeois, Norco LA	
KDIX	Dickinson ND	265	Jim Dillon, Regina Sask	
WLWD	Dayton OH	370	Bill Draeb, Kewaunee WI	
KVOO	Tulsa OK	340	Ray Foster, Monroe LA	
KOTI	Klamath Falls OR	395	Kenn Cooper, Fresno CA	
KDKA	Pittsburgh PA	470	Bill Draeb, Kewaunee WI	
WUSN	Charleston SC	705	Ray Foster, Monroe LA	
KUSD	Vermillion SD	190	Bill Heusmann, Des Moines IA	
WDCN	Nashville TN	235	Estill Thone Hall, McDowell KY	
WSJK	Sneedville TN	135	Dave Pomeroy, Lexington KY	
KPRC	Houston TX	970	Carlton Howington, Homestead FL	
KMID	Midland TX	1235	Ed Richmond, Lakeland FL	
KREM	Spokane WA	570	Russel Cain, Reno NV	
WBAY	Green Bay WI	695	Fred McCormack, Des Lacs ND	
KTWO	Capser WY	290	Gordon Simkin, Idaho Falls ID	
CHCT	Calgary Alta	1240	Edwin Shorey, Derby KS	
"CBUT"	Vancouver BC	500	Charles Wood, Mt Ashland OR	
CKPR	Port Arthur Ont	290	Bill Draeb, Kewaunee WI	
CJIC	Sault Sainte Marie Ont	210	Bill Draeb, Kewaunee WI	
"CBFT"	Montreal PQ	280	John Cody, Middletown CT	
CKCK	Regina Sask	205	Fred McCormack, Des Lacs ND	
WKAQ	San Juan PR	85	Robert Cooper, Frederiksted VI	

Next month, channel 3. Please get your reports in ASAP. At last we've had a chance to check thru some old AIPA bulletins for additional records, previously unknown to us.

Judging from the list to follow, we should have done this long ago. A hearty THANKS to Bill Draeb for the loan of his valuable collection. Eventually, we hope to get to peruse every AIPA bulletin issued. Who will help out? We admit some of the records look doubtful, but with little means of verifying them now, we're running them.

Revisions follow; lowband are skip, highband are tropo, unless otherwise specified.

2	WTHS	Miami FL	1280	Terry L. King, San Angelo TX	Hauser 1260
	WTWO	Bangor ME	2595	Ed Hepp, Portland OR	Johnson TIE
	KLRJ	Henderson NV	1780	Frank Hill, Gallipolis OH	Janowiak 1505
	WFMY	Greensboro NC	2315	Doris Johnson, Longview WA	Cooper 2190
	WLWD	Dayton OH	1965	Ed Hepp, Portland OR	Cooper 1910
	KDKA	Pittsburgh PA	2155	Ed Hepp, Portland OR	Smith 2135
	CHBC	Kelowna BC	1970	Robert Seybold, Dunkirk NY	Hauser 1420
	CFCJ	Port Arthur Ont	1745	Gordon Simkin, Loma Linda CA	Johnson 1590
	"CBFT"	Montreal PQ	2495	Norris Doyle, Pittsburg CA	Cooper 2430
3	KDZA	Pueblo CO	960	Al Preston, San Francisco CA	Cooper 945
	WCIA	Champaign IL	1465	Morris Foote, Middleton ID	Grover 1455
	WAVE	Louisville KY (IN)	1930	Ed Hepp, Portland OR	Cooper 1840
	KDAL	Duluth MN	1575	Gordon Simkin, Loma Linda CA	Cooper 1570
	XEFB	Monterrey NL	1875	Doris Johnson, Longview WA	Draeb 1475
	DZAQ	Manila Philippines	2750	Gordon Simkin, Eniwetok	NEW
4	KOA	Denver CO	1370	William & Richard Nieman, Buffalo NY	Schafer & Erint TIE
	WHBF	Rock Island IL	1640	Doris Johnson, Longview WA	Siddall 1030
	WTOM	Cheboygan MI	1365	Gordon Simkin, Idaho Falls ID	Stanley 1245
	WOAI	San Antonio TX	1490	Al Kopec, Himrod NY	D Nieman 1425
	CMJ	Camaguey Cuba	1535	Barney Rauch, Peoria IL	Brown 1320
	HIT	Ciudad Trujillo Dom Rep	1775	Bedford Brown, Hot Springs AR	Hill 1600
5	WKRG	Mobile AL	1125	John Cody, Middleton CT	Hauser TIE
	KTLA	Los Angeles CA	1265	Ed Rugel, Independence KS	not Hepp
	KREX	Grand Junction CO	1525	Norm Erint, Kenmore NY	Nieman TIE

STATISTICS

5	KGEO	Enid OK	1340	Ray O'Rear, Zillah WA		NEW
	KORN	Mitchell SD	1325	Ghislain Girard, Arvida PQ	Miltier	1320
	KFBC	Cheyenne WY	1550	Bob Berg, Norfolk VA	R & D Nieman, Erint	1330
	CKMI	Quebec PQ	1075	John Broomall, Augusta GA	Dombrowski	870
	CKBI	Prince Albert Sask	1430	Robert Seybold, Dunkirk NY	Erint	TIE
	CJFB	Swift Current Sask	1455	Robert Seybold, Dunkirk NY	Bays	1195
	CMHQ	Santa Clara Cuba	1480	Stanley Penc, Utica NY	D Nieman	1140
6	KUAT	Tucson AZ	1970	Bob Berg, Norfolk VA	Bingham	1215
	KMMT	Austin MN	1455	Ron Boyd, Halifax NS	Fulton	1385
	WOW	Omaha NB	2120	Raul Medina, Managua Nicaragua	Miltier	1100
	KFDM	Beaumont TX	1210	Richard Nieman, Buffalo NY	D Nieman	TIE
			tie	King Schafer & Norm Erint, Kenmore NY		
	KCEN	Temple TX	1460	Norris Doyle, Pittsburg CA	Foote	1360
	KSPR	Casper WY	720	Ron Hilding, Phoenix AZ	now off	NEW
	CJON	Saint John's Nfld	1835	Barney Rauch, Peoria IL	Janowiak	1785
7	WTIQ	Munford AL	350	Clarence Rareshide, New Orleans LA	Cox	130
	KVIP	Redding CA	420	Ray O'Rear, Zillah WA	Smith	390
	KGO	San Francisco CA	315	Charles Wood, Ashland OR	Albright & Wood	305
	WJCT	Jacksonville FL	520	Ed Bourgeois, Norco LA		NEW
	KTVB	Boise ID	205	Gordon Simkin, Idaho Falls ID		NEW
	WNAC	Boston MA	385	Richard Nieman, Buffalo NY	Collier	TIE
	WDXI	Jackson TN	425	Frank Hill, Gallipolis OH	Meers	270
	KUED	Salt Lake City UT	205	Gordon Simkin, Idaho Falls ID	Heusmann	80
	WDBJ	Roanoke VA	970	Robert Cooper, Oklahoma City OK		NEW
	KIRO	Seattle WA	380	Charles Wood, Mt Ashland OR	Martin	135
	CMBE	La Habana Cuba	685	Clarence Rareshide, New Orleans LA		NEW
8	KSBW	Salinas CA	215	Russell Cain, Reno NV	Smith	145
	WMTW	Mt Washington NH	390	Richard Nieman, Buffalo NY	Pizzi	320
	KSWs	Roswell NM	1510	Arnoldo Coro, Marianao Cuba	Hauser	390
	KUMV	Williston ND	160	David Kanaar, Regina Sask	Koenig	TIE
	WBTW	Florence SC	715	Ray Foster, Monroe LA	Cody	635
	KGNS	Laredo TX	215	Pat Dyer, Austin TX		NEW
	CFQC	Saskatoon Sask	140	David Kanaar, Regina Sask	Dillon	TIE
9	WROM	Rome GA	410	Clarence Rareshide, New Orleans LA	now off	NEW
	WTWV	Tupelo MS	245	Jerry Don Burch, Hot Springs AR		NEW
	WNCT	Greenville NC	900	Ed Bourgeois, Norco LA	Rauch	750
	KRBC	Abilene TX	575	Ed Bourgeois, Norco LA	Foster	445
	KCTS	Seattle WA	105	Doris Johnson, Longview WA		NEW
	CFXU	Antigonish NS	105	Ron Boyd, Halifax NS	now CJCB-2	NEW
	(CMAB)	Camagtey Cuba	1105	Clarence Rareshide, New Orleans LA		
					Howington	355
	CMGQ	Matanzas Cuba	745	Ed Bourgeois, Norco LA		NEW
10	WGEM	Quincy IL	975	Ron Boyd, Truro NS	Seybold	645
	WWUP	Sault Sainte Marie MI	435	David Swanson, Romulus NY	Janowiak	365
	KOLN	Lincoln NB	940	Norm Erint, Kenmore NY	D Nieman	TIE
	KSTF	Scottsbluff NB	1115	Clarence Rareshide, New Orleans LA		
					Janowiak	810
	WKNO	Memphis TN	495	Frank Hill, Gallipolis OH	Drott	75
	WMVS	Milwaukee WI	360	B. J. Bingham, Festus MO	Meers	350
	KWRB	Riverton WY	200	Gordon Simkin, Idaho Falls ID		NEW
	CMTV	La Habana Cuba	Es? 1395	Ed Sparks, Odessa TX		NEW
	CMTV	La Habana Cuba	705	Ed Bourgeois, Norco LA		NEW
11	WINK	Fort Myers FL	550	Clarence Rareshide, New Orleans LA	Kadet	120
	WFSU	Tallahassee FL	145	Dickey Black, Columbus GA		NEW
	KELO	Sioux Falls SD	865	Robert Seybold, Dunkirk NY	Meers	675
	KCBD	Lubbock TX	730	Clarence Rareshide, New Orleans LA	Brown	505
	KTNT	Tacoma WA	375	Charles Wood, Mt Ashland OR		NEW

STATISTICS

11	CKXL	Foxwarren Man	155	Fred McCormack, Des Lacs ND	NEW
	CHCH	Hamilton Ont	525	Barney Rauch, Peoria IL	Janowiak 435
12	WFGA	Jacksonville FL	520	Ed Bourgeois, Norco LA	F Brown 315
	WEAT	West Palm Beach FL	670	Ed Bourgeois, Norco LA	NEW
	KNMT	Walker MN	345	Fred McCormack, Des Lacs ND	Fridley 145
	KVOS	Bellingham WA	215	Ed Hepp, Portland OR	NEW
13	WTVT	Tampa FL	1105	Ken Neal, Hamlin TX	Kadet 185
	WHO	Des Moines IA	820	Ed Bourgeois, Norco LA	Lewis & Seybold 715
	WAAM	Baltimore MD	620	Denny Cline, Eastport ME	Meers 445
	WIRT	Hibbing MN	410	Fred McCormack, Des Lacs ND	NEW
	KCJB	Minot ND	225	Jim Dillon, Regina Sask	Koenig TIE
	KXMC	Minot ND	tie	Fred McCormack, Fargo ND	
	KETA	Oklahoma City OK	560	Ed Bourgeois, Norco LA	Pomeroy 280
	KDUB	Lubbock TX	730	Clarence Rareshide, New Orleans LA	Brown 505
	KTVW	Tacoma WA	115	Ed Hepp, Portland OR	Martin 110
			tie	Ray O'Rear, Zillah WA	
	(CMAB)	Victoria de las Tunas Cuba	1075	Ed Bourgeois, Norco LA	NEW
14	WFAN	Washington DC	190	Jerry Pulice, Staten Island NY	Smith 150
	WJYY	Jacksonville IL	585	Robert Seybold, Dunkirk NY	NEW
15	WANE	Fort Wayne IN	440	David Swanson, Romulus NY	Lewis & D Nieman 340
	WKPC	Louisville KY	445	Robert Seybold, Dunkirk NY	Draeb 440
16	WNDU	South Bend IN	490	David Swanson, Romulus NY	D & R Nieman 385
17	WITV	Fort Lauderdale FL	665	Clarence Rareshide, NO LA	Howington 40
	WUNE	Linville NC	315	Larry Vogt, Springfield VA	new
19	WNOK	Columbia SC	400	Larry Vogt, Springfield VA	NEW
	KAEC	Nacogdoches TX	320	Robert Cooper, Oklahoma City OK	NEW
	KEPR	Pasco WA	55	Ray O'Rear, Zillah WA	NEW
20	WDCA	Washington DC	190	Jerry Pulice, Staten Island NY	Smith 150
22	KFSA	Fort Smith AR	450	Clarence Rareshide, New Orleans LA	Brown 95
	KVDO	Corpus Christi TX	465	Clarence Rareshide, NO LA	Escoffier TIE
24	KMJ	Fresno CA	190	Robert Cooper, Mt Tamalpais CA	Smith(err) 190
25	KTAG	Lake Charles LA	170	Ed Bourgeois, Norco LA	NEW
	WOLO	Columbia SC	400	Larry Vogt, Springfield VA	Walker 330
26	WETA	Washington DC	190	Jerry Pulice, Staten Island NY	Smith 155
	WATU	Augusta GA (SC)	455	Larry Vogt, Springfield VA	Goldman 15
28	WTVM	Columbus GA	360	Ed Bourgeois, Norco LA	NEW
	WSJV	Elkhart IN	490	David Swanson, Romulus NY	Kanaar 380
29	WKSO	Somerset KY	465	Robert Seybold, Dunkirk NY	Pomeroy 70
30	KFRE	Fresno CA	180	Robert Cooper, Mt Tamalpais CA	Smith TIE
35	WUHY	Philadelphia PA	275	Robert Seybold, Dunkirk NY	Vogt 135
36	WSBE	Providence RI	405	Robert Seybold, Dunkirk NY	Fela 160
38	WSBK	Boston MA	415	Robert Seybold, Dunkirk NY	Vogt 395
39	KCST	San Diego CA	245	Jim Pizzi, Santa Maria CA	Smith 195
40	WHYN	Springfield MA	340	Robert Seybold, Dunkirk NY	Holbrook 320
41	WCDA	Hagaman NY	260	King Schafer, Kenmore NY	R Nieman TIE
	WXTV	Paterson NJ (NY)	300	Robert Seybold, Dunkirk NY	Vogt 210
	KCOR	San Antonio TX	505	Clarence Rareshide, New Orleans LA	
					Bourgeois 485
	WVTA	Windsor VT	350	Robert Seybold, Dunkirk NY	Grant 90
43	WSBA	York PA	220	Robert Seybold, Dunkirk NY	Vogt 80
46	WSKG	Binghamton NY	230	Larry Vogt, Springfield VA	Lewis 200
49	WEDW	Bridgeport CT	325	Robert Seybold, Dunkirk NY	McArthur 270
53	WEDN	Norwich CT	370	Robert Seybold, Dunkirk NY	McArthur 325
56	WKBG	Boston MA	410	Robert Seybold, Dunkirk NY	Vogt 410
67	WMPB	Baltimore MD	260	Robert Seybold, Dunkirk NY	Pulice 160

And that does it for this time! Remember to report! Until the next, Best DX & 73, Glenn

BOB'S

BOB'S TECH NOTES
ROLLING YOUR OWN ANTENNAS

TECH NOTES Page eight

For reference sake, the very best LPV available has been measured on my antenna test range at no more than 10. to 11.0 db gain on any single high band channel, roughly equivalent to a single seven element A144-7, modified. Four of the A144-7 antennas, stacked in the so-called BCX configuration (to be outlined next month), will give you nearly four times as much signal as the very best LPV, for about the same cost. This will, however, be on a single channel only.

Four A144-7 antennas, stacked, puts you into the high band meteor scatter business for random bursts any morning. Eight of these antennas, as I am now experimenting with (8 antennas times 7 elements, or 56 elements total on channel 7) gives me 60 % (by actual count) as many MS bursts on channel 7 as my 6 db channel 2 antenna, on channel 2, for any given random morning.

Modifying the A50-6

The A50-6 is a big antenna. In its intended six meter use, it is 20 feet long. As table one shows, it is somewhat shorter on channel 2 through 6, as modified for single channel TV use. Once modified, you will have 10 db of gain, over a reference dipole, which is about TWICE the received signal voltage you are actually now getting if you are using the very best LPV built.

The A50-6 uses special element to boom slip clamps. No holes are drilled through the boom, and this simplifies modifying it for low band TV use.

(1) Open the carton...remove all hardware, elements, boom sections (2) and the boom joint.

(2) Separate the six elements by length, laying them out on the ground side by side, longest to shortest.

(3) Join the two boom sections together by using the boom joint supplied, and the two strap clamps. The two ten foot boom sections will slide into the joint piece, an equal distance each, and be firmly clamped to the joint piece with the two strap clamps. Place the strap clamps about four inches IN from either end of the joint piece.

(4) In table 'A', find the total boom length for the channel you will build for. Mark the center of the total twenty foot boom, and then measure one-half of the total boom length distance either side of the center mark. Mark these two points on the boom.

(5) Using a hacksaw, cut off the total boom at these two points; you now end up with a new boom, the proper length for the new channel.

(6) Using Table 'A', measure off the distances between each of the elements (ie. element to element spacing) and mark the boom at each of these element location points. Start at either end, and make a mark two inches in from the end, for the reflector location. Now measure off the distance to the driven element (DE), and mark again. Then the distance to the first director, mark

cut it off also. And so on, to the front of the antenna. You should end up two inches from the front of the boom, and this will be the location of the fourth (front-most) director.

(7) Using Table 'A', select the LONGEST element in the group on the ground, and measure off the total length of the reflector element from Table 'A', measuring one-half the total distance out from the center of the element (center of clamp). Mark the element to this new length, and cut it off where the two marks are. (NOTE: Be certain you have measured from the element center, and that you come up with equal lengths either side of the center of the element.)

Proceed to do the same thing with the driven element, and all four directors, taking the longest element on the ground for each succeeding element to be cut.

(8) Now take the reflector element (longest) and mount it to the boom with the clamp, at the reflector location marked on the boom.

Mount all elements in their proper position, as shown in diagram one, making certain that as you tighten up the nuts on the element to boom C clamp that you tighten both sides of the clamp evenly, and that the elements are parallel to each other (ie. in the same plane). This can perhaps be done best on a flat surface, such as a driveway.

(9) In the hardware package you have remaining, there should be a strange looking bracket (plate) and four C clamps. The idea here is that two of the C clamps go around the boom, and through the plate to secure the plate to the boom, while the two remaining C clamps go around the mast and through the plate to secure the antenna to the mast. Study it for a short while; it will be self explanatory. Be certain that the boom mounts to the plate at the center of the antenna (equal weight distribution) and so that the antenna elements will be parallel to the plane of the earth.

(10) The driven element is using something known as a 'GAMMA MATCH', which is a clever little mechanical capacitor device which matches the antenna driven element to a 75 ohm coaxial T line. Table A-1 and diagram two shows the proper dimensions for setting this matching device to the channel you will be using, and 75 ohm coax. Diagram three shows how to prepare the coax line to connect it to the antenna.

(11) The coaxial cable (RG-59/U is fine for low band runs of 100 feet or less; do not use inter-foil cable since it does not solder well.) shield is connected to the gamma matching section nut that is closest to the boom of the antenna. The center conductor is connected to the nut that is furthest from the boom.

The coaxial cable MUST be taped along the boom, back to the

boom to mast bracket, and then down the mast and around the rotor. The coaxial cable must be taped under the boom, with the elements on top of the boom (ie. UP). This keeps the coax cable shield from inter-acting with the antenna electrical field.

(22) This antenna is long enough (ie. total boom length) that it may present some excessive wind drag. I don't recommend using one of these on channels 2,3 or 4 without a good heavy duty rotor, or at least an Alliance U-100 with a THRUST BEARING bracket. In any case, the antenna should be mounted down right on top of the rotor top housing, ie. as close to the rotor as possible, to prevent bending torque on the mast between the antenna and rotor, in high winds.

Modifying the A144-7 and A144-11

The A144-7 series is short and lightweight. Four of these antennas, with their associated frame work, have about the same wind resistance and rotor or tower loading as a single A50-6 modified for channel 2. This makes stacking four of these antennas, as will be described next month, relatively simple, and is an excellent way to get 16 db of honest antenna gain for a single channel.

The A144-11 is not much heavier, although the wind loading is nearly twice as much. Two of the A144-11's will put you into the random morning high band MS world, and give an excellent account of themselves in daily 400 mile high band tropo, if that is your bag.

- (A) The A144-7 antenna comes with two short boom sections. The A144-11 is a single 12 foot long boom. The major difference between the A144 and A-50 antenna construction is the element to boom clamping assembly. In the A50 series, no holes are drilled in the boom; everything slides together. In the A144 series, holes are drilled through the boom to affix the elements to the boom. To modify these antennas for high band TV use involves re-cutting the elements to the proper length; re-drilling the boom for the new element locations and adjusting the gamma match.
- (B) Both A144 series instructions are similar to the A50. First, open the carton and lay out everything on the ground; elements side by side, longest to shortest, etc. Demount (ie. take off) the elements shipped attached to the boom, setting the hardware aside in a bag.
- (C) In the case of the A144-7, join the two boom sections together with a NEW 3/16 by 1.5 inch bolt, nut and washer. Slide the two boom sections together (they telescope) by sliding the shorter boom piece inside the longer piece. Two mounting holes will line up when the shorter piece is approximately 3-6 inches inside of the longer one. Tighten up the mounting screw and nut until you can see the nut actually digging into the surface of the aluminum (ie. make it tight!).
- (D) In the case of the A144-11, the boom is already a single piece.

- (E) Find the center (middle) of the boom, and using Table 'A' proceed as in Step 4 and Step 5 of instructions for the A50-6.
- (F) Using Table 'A' again, following Step 6 in instructions for the A50-6.
- (G) Using Table 'A' once again, follow Step 7 in the A50 modification to cut all elements to the proper lengths. Table A has element lengths for all channels, for both the seven element A144-7 and the eleven element A144-11 antennas.
- (H) Now, secure the boom in a vise or with wooden blocks and vice or C clamps, and use a center punch to mark the locations along the boom where you will re-drill holes for the elements to mount. Be VERY careful to get all of the punch marks in a single straight line along the boom, or you will end up with a very funny looking (and performing) antenna! You might secure a taut string from one end of the boom to the other, in a straight line, to insure that the element holes will line up and that the elements will be in a straight and horizontal plane to one another (ie. parallel) when mounted.
- (NOTE: Notice where the two LARGER holes are on the side of the boom, in the approximate center. These are the boom to mast U bolt holes and they must end up 90 degrees around the boom from the element holes, when you get done.)
- (I) Using a 1/4 inch electric hand drill, and a 3/16 to 1/4 metal bit, very carefully drill through the boom, perpendicular to the boom, where the center punch has marked the element locations, and where each element will mount.
- (NOTE: If your hole drilling exercise proves to be less than accurate, which you will tell when you go to mount the elements with the clamps provided - and you find all elements are not parallel - you can remedy the problem by carefully reaming the holes involved with the same sized bit originally used, in the direction the bolt has to slide to allow the element to position correctly. The element to boom clamp is so designed that a little bit of loose play will NOT weaken the securing of the element to the boom, especially on top of the boom where the clamp rests not on the hole perimeter but on flanges.)
- (J) Now follow Step 8 in the A50 instructions, and mount the elements in sequence.
- (K) In the hardware package you will find a single U bolt/C clamp. Attach it loosely to the boom in the two holes provided by the factory.
- (L) Now follow the instructions in Step 10, A50 modifications to adjust the gamma match.
- (M) Finally, follow Step 11 in the A50 instructions and prepare a piece of coaxial line, attaching it to the antenna and taping it UNDER the boom every four inches or so.

You can go along the boom, down the mast and around the rotor with plain old RG-59/U. However, you should not go down to the set in RG-59/U unless the run is under 50 feet total. Below the rotor you can join to a piece of aluminum .412 coaxial cable, or even to (shudder) 300 ohm line through a 75 ohm to 300 ohm outdoor balun.

NEXT MONTH...

We will discuss the stacking of two or more identical antennas using passive splitters as mixers, and show how stacking the antennas will result in considerably more gain.

We will also discuss various methods of stacking, including horizontal stacking as a means of eliminating or cutting way down on co-channel interference.

IT'S UP TO YOU ...

We are un-decided what to discuss after next month's final piece on antennas. We can take any of the following up, if interest warrants doing so. Won't you drop me a line with your choice?

- (1) VHF FET Transistor Pre-amplifiers. Several circuits I have developed and have in use for Field Effect VHF transistor single channel pre-amplifiers. These will NOT overload with strong local signals, have noise figures no more than 2.5 db at channel 13 (as low as 1.0 db at channel 2), and from 8 to 16 db gain.
- (2) UHF Transistor Pre-amplifiers. Several circuits I have built up and have in use, using newly available relatively high gain and low noise UHF transistors, and a FET transistor unit for channels 14 to 30. Typical noise figures are 5.0 db or lower; Typical gain from 6 db to 19 db. Typically, single channel devices.
- (3) Interdigital Bandpass Filters - single channel filters you can build on your kitchen table with sheet copper or brass or bronze for under \$15.00 each. They work just like the \$100.00 up CATV units, but require no electronic wiring, coilwinding, or test equipment to tune up.

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

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TABLE ONE - ROLLING YOUR OWN ANTENNAS

To use this table, first find the column which corresponds to your channel of interest.

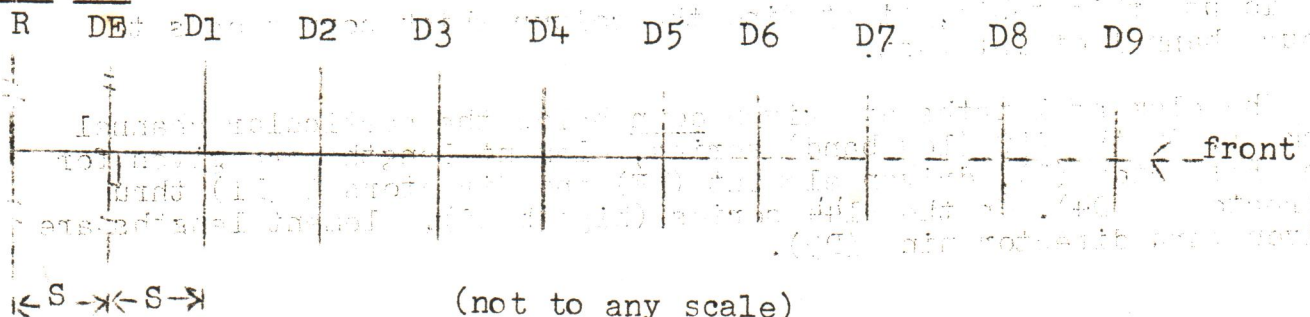
The element lengths are given down below the particular channel number. In the A50 (low band) series, element lengths are given for the Reflector (R), driven element (DE) and directors 1 (D1) thru director 4 (D4). In the A144 series (high band), element lengths are given thru director nine (D9).

The element to element spacing is given slightly differently for low band and high band. In the low band series, elements are spaced .2 wavelength apart ONLY between the reflector (R) and the driven element (DE). All other elements are spaced .15 wavelength apart. In the high band series, spacing between elements is uniform at approximately .2 wavelength. The .2 wave spacing for the reflector to driven element and .15 spacing driven element to directors on low band is an attempt to broaden the frequency response within the channel of interest for the low band antennas. This is not necessary for the high band antennas, and this accounts for the difference.

Ch. 2	Ch. 3	Ch. 4	Ch. 5	Ch. 6	
107.00 "	96.9 "	87.9 "	76.6 "	70.7 "	Reflector
100.25 "	90.6 "	82.3 "	71.7 "	66.5 "	Driven Element
96.25 "	87.0 "	79.1 "	68.9 "	64.1 "	Director 1
94.25 "	85.5 "	78.0 "	68.4 "	63.6 "	Director 2
92.75 "	84.0 "	77.0 "	67.7 "	62.9 "	Director 3
91.25 "	83.0 "	76.0 "	67.0 "	62.2 "	Director 4
41.4 "	38.6 "	34.2 "	29.9 "	27.6 "	R to DE spacing
30.0 "	28.0 "	25.7 "	22.4 "	20.7 "	All others
165.5 "	154.5 "	141.0 "	124.0 "	110.4 "	Boom length
Ch. 7	Ch. 8	Ch. 9	Ch. 10	Ch. 11	
33.25 "	32.00 "	31.10 "	30.10 "	29.20 "	Reflector
31.70 "	30.50 "	29.60 "	28.70 "	27.80 "	Driven Element
30.90 "	29.60 "	28.50 "	27.80 "	27.00 "	Director One
30.10 "	28.70 "	27.90 "	27.20 "	26.50 "	Director Two
29.25 "	27.90 "	27.30 "	26.60 "	26.00 "	Director Three
28.50 "	27.20 "	26.70 "	26.00 "	25.50 "	Director Four
27.75 "	26.50 "	26.10 "	25.40 "	25.00 "	Director Five
.....
27.50 "					
27.25 "	26.25 "	25.90 "	25.20 "	24.80 "	Director Six
27.00 "	26.00 "	25.70 "	25.00 "	24.60 "	Director Seven
26.75 "	25.75 "	25.50 "	24.80 "	24.20 "	Director Eight
	25.50 "	25.30 "	24.60 "	24.00 "	Director Nine
12.70 "	12.20 "	11.80 "	11.60 "	11.10 "	Spacing
78.00 "	75.00 "	73.00 "	71.00 "	69.00 "	Boom Length(7 el.)
129.00 "	124.00 "	120.00 "	116.00 "	113.00 "	Boom Length(11 el.)

(Channels 12,13 on next page)

DIAGRAM ONE



(not to any scale)

Ch. 12	Ch. 13	
28.25 "	27.30 "	Reflector
26.90 "	26.00 "	Driven Element
26.10 "	25.20 "	Director One
25.60 "	24.70 "	Director Two
25.10 "	24.20 "	Director Three
24.60 "	23.70 "	Director Four
24.10 "	23.20 "	Director Five
.....
23.90 "	23.00 "	Director Six
23.70 "	22.80 "	Director Seven
23.50 "	22.60 "	Director Eight
23.30 "	22.40 "	Director Nine
10.80 "	10.60 "	Spacing
67.00 "	65.00 "	Boom Length (7 el.)
110.00 "	107.00 "	Boom Length (11 el.)

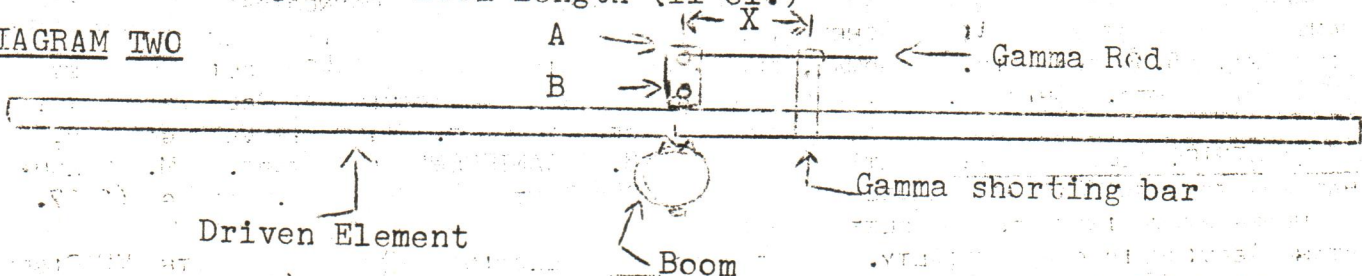
SPECIAL NOTE:

Mount all elements including DE on SAME SIDE of boom, so as to face UP when installed on mast.

Coat over coax connections to antenna with GE G-635 INSULGREASE or equal to protect from weathering.

Photos of typical yagi antenna arrays available for stamped self addressed envelope.

DIAGRAM TWO

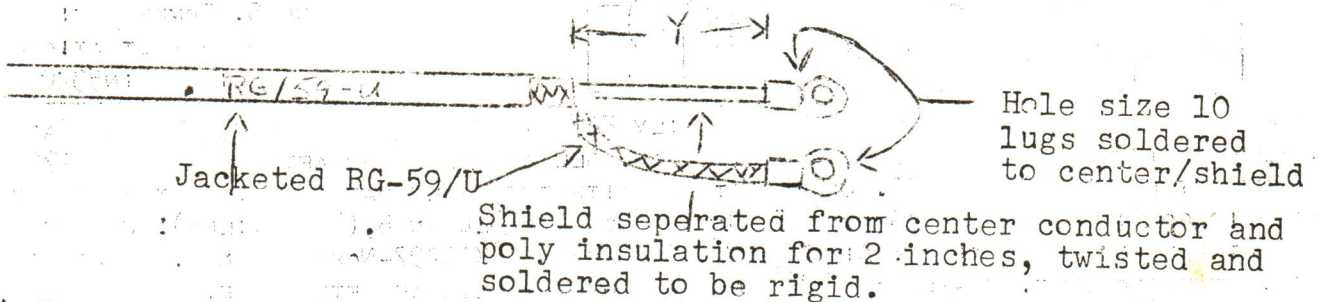


Note: Distance 'X' is spacing given in Table A1, below, for gamma adjustment to 75 ohm coaxial cable. Connector coax center conductor to A, shield to B.

TABLE A1

Channels 2-4	Distance X equals 13 inches
5-6	Distance X equals 12 inches
7-13	Distance X equals 6.5 inches

DIAGRAM THREE



- (A) Strip outside jacket from RG-59/U for distance of 2.25 inches.
- (B) Carefully separate center conductor with poly insulation from bared end for 2.0 inches from end, resulting in two separate pieces as shown, twisting shield section together in a 'pigtail' braid.
- (C) Lightly tin (solder) braid at several points to make semi-rigid.
- (D) Affix hole size ten terminal lugs to ends of copper-bare center conductor and shield with rosin core solder. Lugs will mount to machine screws on gamma match, as in diagram Two above.

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M. GOLDMAN
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DEADLINE: DEC 18

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VHF RADIO REPORT

FERDINAND S. DOMBROWSKI
Box 5001, HARBOR STATION
MILWAUKEE, WISCONSIN 53204

THE LAST WEEK OR SO AT HQ HAS BROUGHT DAILY F2 ACTIVITY OF PAGING STATIONS IN SAN JUAN, PUERTO RICO, FRESNO AND LONG BEACH, CALIF. ALL ACTIVITY WAS AFTER WORK FROM 1700 -FADE-OUT BETWEEN 1800 AND 1900. ON 25 OCTOBER WITH THE WHOLE DAY TO DX, I GOT 3 NEW STATIONS: CHICAGO AIR CALL ON D, STOCKTON, CALIF AND HONOLULU ON B, (4350 MILES)! ON THE 18TH I GOT 2 MORE NEW STATIONS, AIR PAGE LONG BEACH AND K1G297-NORFOLK ON B. MORRIE IS HERE THIS WEEKEND (OCT. 25-26) SO HE'S READING THE CW CALLS WE OFTEN HERE.

MORRIE REPORTS THE FOLLOWING RECEIVED DAILY FROM HIS CHICAGO QTH: SAN JUAN AND FRESNO ON A, LONG BEACH AND HONOLULU ON B; ALSO SEVERAL UNIDED CW STATIONS. HE JUST PURCHASED AN ALLIED 2586 PORTABLE WHICH SEEMS MORE SENSITIVE THAN HIS HALLICRAFTERS S-94; SELLING AT UNDER \$18 THE ALLIED SEEMS QUITE A BARGAIN. (AFTER LISTENING TO IT A FEW HOURS I CONCUR THAT IT PERFORMS FAVORABLY WITH MY ALLIED DUAL-BAND A-2589 AS WELL)!!

A LATE NOTE FROM ROGER BUNNEY IN THE SOUTH OF ENGLAND. PAGING ACTIVITY WAS FIRST RECEIVED THE 19TH OF OCTOBER THERE, AS COMPARED TO 27 SEPTEMBER LAST YEAR. HIS USUALLY IN STATION ORLANDO WAS FIRST AGAIN ON A, WITH OTHER RECEPTION FROM SCRANTON AND HOUSTON ON B, WHAT IS CERTAINLY SAN JUAN ON A (IN SPANISH), AND ONE WE DON'T HAVE ON OUR LISTS KGC266 IN ALLENTOWN, PA IDING AS "TELEPHONE EXCHANGE REPUBLIC 24116."

C.C.J.

Not many reports this month, but at least we got some help with Bob Cooper's channel 7 MS mysteries. Roger Brown believes that the test pattern illustrated with the dark center circle containing a 7 and possible concentric circles around it is

probably WHIO-TV, Dayton. Bob's other unIDed tp of last month probably is not WMAL-7, as suspected. Jerry Pulice writes, 'only tp WMAL been using for the last 3 years is a standard wedge tp. It is run around 0300-0430 and 0630-0700 EDT. Bob also wondered if either WBAY-2 or WMT-2 runs color bars around around 0615 CDT. Fred McCormack's excellent logging of WBAY on 8/23 shows that they do. And, as far as I have observed here, WMT does not run color bars.

Jerry Pulice (143 Gibson Ave., Staten Island, NY 10308) submits these: July 13 (Sun) 1130 EDT- Es ch. 4 movie, 'Family Theater' in white letters across dark grey screen. At 1200, end of Discovery '69'.

July 22 (Tue) 1630 EDT- Es ch. 2, 'Miss Joe' ending. (WDIQ?)
ch. 3, beginning of Pacific WW-2 movie
ch. 4, talk show, Ø offset to WNBC.
(If ch. 2 WDIQ, ch. 4 possibly WTVY; offset is right. bh)


Sept. 2 (Tue) 0940 EDT- Trop, ch. 56-7, IHTP to south. WWBT, Richmond in. Is unID WCVW-57? (Virginia members, can you help?)

Sept. 15 (Mon) 0747 EDT- Same as on Sept. 2.

Sept. 23 (Tue) 0634 EDT- Trop, SMPTE tp on ch. 9, west.

WHEN-5, Syracuse in, unID WNYS? (Fred?)

0800 EDT- ch. 13, north, Ø offset to WJZ.

'Leave It To Beaver'. 0826 Captain Kangaroo (+)  (+)

Aug. 5 (Tue) 0830 ID, sketched left. WGAN, Portland? (Offset is right) 2317 EDT- Trop, ch. 13 Audio only, 'This is the CTV Television Network' Sound lost 2318. WBEN-4 Buffalo and WICU-12 Erie in. UnID tent. CKCO-TV, Kitchener. (Seems likely as only other possibility is Ottawa. bh)

Aug. 6 (Weds.) 0544 EDT-Trop, 10 kHz QRM on WIIC-11, Pittsburgh (excellent w/tp) to west! (Probably was WTOL, as you suspect, Jerry, offset is right. But without any program information, one never can be positive. bh)

0600- Color bars to NW on ch. 8.

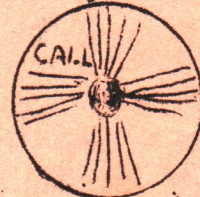
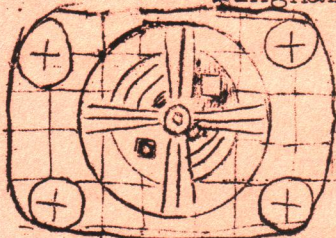
0636- SMPTE tp to west on ch. 9, same as 9/23.

0640- RETMA tp w/call across bottom inside circle, 20-30° south of SMPTE tp, 10 kHz offset with same. (WSTV ?)

0747- color bars to west, ch. 44-6, w/music. WSKG-46, Binghamton? (Suspected WOVE-45, Albany apparently not on. bh)

Finally, two unIDed tps, seen by MS all year. Pattern at right on ch. 5, seen between 0605-0650 ET. White CLs on grey background, look like WB...or WGH...or WCK....

Left pattern also on 5, at same time. (Left pattern is almost without a doubt



WMAQ-TV, Chicago. Anyone know of any other 5s at right distance with this pattern?? bh)

Roger Brown (624 Evergreen, East Lansing, MI 48823) has two unIDs:

Oct. 5 (Sun) 2230 EDT- Trop, ch. 17 Local movie in color, IDing as 'TV-17'. South of WNED-17 and not NET. Suspect WJAN.

(Carlton, WJAN is practically in your lap. ID familiar?)

Oct. 6 (Mon) 0015 EDT- Trop, ch. 17 Weak signal from east. Not WJAN nor WNED, didn't appear to be NET. Talk show w/ young singer who said he hated to take lots of money for performing.

OUR PROUD PAST

In the past couple of years, TV and FM DX has been given a new lease on life. You probably don't have to be reminded of that! With the advent of the WTFDA new techniques and equipment have been discovered, the 'old timers' from AIPA days have been reunited and a flock of newcomers has come to light. A new day has

dawned; the future looks rosy. Ah, but what of the past, those 'good old days' of interference-free skip, of F2 pouring in from Europe and double hop a halfway common occurrence? Many, many of the loggings made in the past can never be matched today. It is, truly, a past well worth remembering.

As TV-FM DX plunges headlong into this rosy future, are we going to forget this past? The newcomer should know what he missed, both the good and the bad, and the old timers will certainly want those days to be remembered. Fortunately, proud past is still kicking around, preserved in old AIPA bulletins, articles and the logs and photos of those long associated with TV-FM DX. But, what is to say it's going to stay with us? Old bulletins and magazines have a nasty habit of disappearing. Most of the old timers are still active as ever...but not all. AIPAer Ed Bourgeois has been dead over two years, the great Art Collins has left a large void with his passing and now the ever-active Tom Hidley has left our midst. Each of these men helped make TV-DX what it is today. They are a part of our proud past. It would be a shame to let the logs, photos and veries of these men to disappear from sight forever. Unknowing or uncaring relative could (or, just as likely have) consign these items to the incinerator, just to be rid of them.

The point is, therefore, that some effort should be made to preserve the fruits of these deceased old-timers efforts. A collection of irreplaceable bulletins, logs, photos and so on would benefit all and would keep the memory of these men's accomplishments alive. Items relating to the great DX of those still with us could also be kept in this 'hall of fame', photos reprinted (say of Ron Boyd's European DX), logs photo-stated (like Bedford Brown's), tapes copied (Glenn Hauser's high band skip, for example) and so on.

It would take a lot of work on someone's part. 'Ah ha!' you think, 'another call for volunteers!' Well, we're not stopping anyone, but first, how about comments. Is it worth the effort? Is this all a lot of sentimental corn? What is worth saving? How do we store it? **WHAT DO YOU THINK?**

Bill Heusmann-CCI Editor.

CCI-2

Not WNEP-16, I saw their s/off. Suspect WPHL, but not sure. Did not appear to be in color.

A word of explanation on one of last month's unIDs, specifically Gary Olson's mysterious ch. 38 logging of August 21, similar to Bob Cooper's 'WCFL-38'. Gary stated, 'I suspect a station is on in the midwest that we don't know is on.' I mistakenly assumed he meant a CP which we hadn't learned had come on, such as the WKMR-38, in Morehead, KY. In actuality, this appears to be a completely unknown, apparently commerial station. Beyond Chicago and Morehead, there are no other ch. 38s assigned in the suspected area, which therefore give us no other clues to this station's location. Ideas, anyone? When tropes open up to the IL, IN, KY area, keep tabs on ch. 38. Maybe you can be the proud discoverer of a brand new TV station!

73 and less CCI, *Bill*

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