

# VHF-UHF DIGEST

the official publication of the Worldwide TV-FM DX Association

MAY 1977

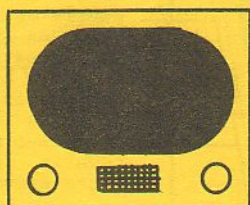
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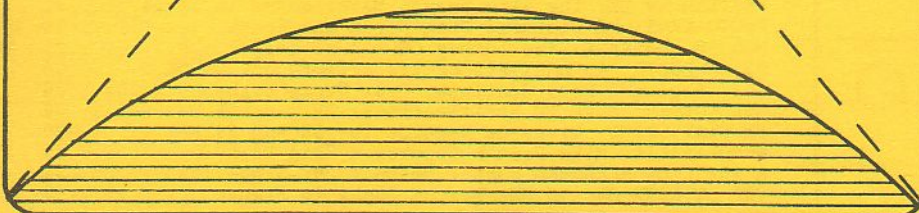
## EUROPEAN FM

## BALUNS

## LONG-DARK UHF



F2 IN  
DEPTH





# From The Staff :

WTFDA Headquarters, P.O. Box 202, Whiting, Indiana 46394

**LATE ISSUES...**Yes, we're aware that this Digest, like March, has been delayed in reaching you. Please bear with your editor-in-chief; he's had to contend with midterm and final examinations and deadlocked convention balloting, occurring at VUD deadlines over the past few months! As compensation for keeping you in waiting these extra days, we've included five excellent technical and non-technical features in this edition of the Digest. Thanks for your patience---now that college has ended, your issues will be arriving much earlier!

**ANARC NEWS...**Executive Secretary Dave Browne informs us that the 1977 ANARC Convention will be held on July 15, 16 and 17 in Schaumburg, Illinois (near the Chicago International Airport). WTFDA's editorial crew will be making a presentation on "The Production of a DX Club Publication," using the VUD as an example! For information or reservations, contact the Woodfield International DX Club (its hosts), P.O. Box 95073, Schaumburg IL 60195; please include a large SASE for reply. We expect to publish details of WTFDA's upcoming Portland convention in the next Digest.

**COLUMN CHANGES...**This month marks the institution of new DX reporting areas for VUD columns, and the phasing out of some sections. Please check this issue's DX columns to see which is the one expecting your reports!

**CLUB PUBLICITY...**It may be that WTFDA has been getting more public notice in recent months than any other DX club! Our name has appeared in the new Communications Handbook, and in Communications World; in the 1977 World Radio TV Handbook; in a new book, "A Primer on TV DXing"; in "Window on the World"; and in Morrie Goldman's article on TV DX, the cover story in the latest Elementary Electronics! Many members have also managed to place our name in newspapers across the country. WTFDA's Board of Directors sends special thanks to DXers around the world for an outstanding job of promotion!

73, *Clarke* for Pete, John, Mike and Morrie

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# MAILBOX

John Zondlo  
6617 Maryland  
Hammond, IN 46323  
(219) 844-8694  
Deadline: 15th

### New Members:

|                     |                          |                           |
|---------------------|--------------------------|---------------------------|
| Richard W. Culin    | Box 8101                 | Akron, OH 44320           |
| Donald D. Marshall  | 5920 Wise Ave.           | St. Louis, MO 63110       |
| Charles Mylod       | Box 523                  | Charlottesville, VA 22902 |
| William H. Oliver   | 2939 S. Sycamore, Apt. 1 | Los Angeles, CA 90016     |
| Kenneth Van Tassell | 13 Hampshire Road        | Fishkill, NY 12524        |

### Renewals:

Frank Aden, Jim Alexander, Robert Baker, David Curvin, John Czarnomski, Richard Eddie, Ricky Glasgow, R.E. Lyons, Mike Reid, Michael Sweeney, Lee Vulgamott.

### Rejoin:

Kenneth E. Blair-RD #2, Box 835--Lebanon, PA 17042

### Address Changes:

Tom Cornell-RR #2, Box 53A--Greentown, IN 46936  
Alan Mayer-409 Indiana-Park Forest, IL 60466  
Don Voegele-2852 Elmwood Ave., Apt. 36--Stockton, CA 95204

### Renewals Due in June:

Richard Allen, Randall Clark, John Combs, David Cox, Bob Curole, Ron Fenton, Les Goins, Mark Lewis, Rolland Lindblade, Joseph Longmore, R.W. Lord, Andrew Mahoney, Brent Manuel, Fred McCormack, John S. Phillips, R. Randall, John Ray, Michael Sapp, Ken Simon, Jeff Smith, Steven Sprachman, Eric Strahan, Ralph Strobel, Michael Telles, Martin Theil, Mel Wilson, John Winslow.

A policeman, RICHARD CULIN is interested in shortwave, FM-TV, and public service band DXing. He's a member of NASWA, with DX gear including a Realistic DX-160 and a Realistic scanner.

Popular Electronics is where DONALD D. MARSHALL heard about WTFDA. He's employed as a TV engineer.

The DX shack of CHARLES MYLOD features a Panasonic RF-1170, Heath GR-88 and GR-98 receivers, a Realistic Pro-16A scanner, and a Heathkit TV. Charles plans to get more sophisticated VHF/UHF receivers and one or more top of the line FM tuners. He also belongs to IRCA, NRC, and LWCA.

KENNETH VAN TASSELL is primarily interested in FM and TV DXing. He heard about the club from the FM Atlas and Station Directory.

### Tidbits.....

Recently rejoined member Ted Fleischaker DXs with a Pioneer TX-6500 tuner, a Pioneer SA-6500 amplifier, an Admiral color TV set, a Winegard Super Chromstar with rotor for VHF and a 6' dish for UHF. He writes, "I look forward to taking an active part in the club and since FM-TV DX is a longtime hobby for me (have some veries to 1963), I look forward again to taking part in the WTFDA. I am glad to hear of the new club leadership and hope that I can be of assistance. Louisville has a large number of DXers these days and will, in April, take over the publishing of the National Radio Club DX News, so we meet regularly and compare catches, etc. Fellow DXer Wayne Murphy is already in WTFDA and I am working on a couple other of the guys who have an interest in FM-TV as well as the MW things." Ted is also an avid collector of air checks of beautiful music FMs with a collection of over 100 taped. He would welcome exchanges from any member desiring them. Ted's address is 3023 Tremont Drive, Louisville, KY 40205.

W.R. Hepburn (5659 Highland Ave., Niagara Falls, ON L2G 4X2) recently joined WTFDA. He writes to say that he's 14 years old and interested in TV and MW DX. He heard about WTFDA from Gilfer Associates.

If you have any DX related news you'd like to pass along to fellow members, just drop me a line or call me at the number listed above. That about wraps it up for this month.....be sure to keep those cards and letters and phone calls coming in. See y'all in June.....jz



# FEEDBACK

A MONTHLY FORUM FOR DISCUSSION OF  
CLUB-RELATED TOPICS

Address correspondence to:  
Clarke W. Ingram, editor, Digest  
5201 Colewood Drive  
Pittsburgh, Pennsylvania  
15236 USA

The current TECHNICAL-CORNER series by Dave Janowiak on understanding polarization, held for the past few issues because of lack of time to transcribe the WTFDA convention lecture tape on the subject into written features (due to your editor's final examinations), has recently drawn criticism from several club members. Among these is FCC-FM News editor Dr. Bruce F. Elving, whose comments echo those of other WTFDAers:

Much that I dislike finding fault with a fellow (WTFDA) member and article-writer, I feel that I must make some comments on Dave Janowiak's series on understanding polarization...

Much that Dave writes about is pure theory, and not based on solid experience. I, on the other hand, have experimented with vertical polarization since 1966, having erected a vertically-mounted FM yagi antenna atop its own tower and with its own rotator only one year after the FCC authorization of FM radio stations in the United States to employ horizontal and vertical, or circular, polarization. It was largely as a result of this experience that I wrote the article in the May 1975 VUD, "Those Elusive Verticals," pp. 26-27.

This system of mine for the reception of v-signals has been in continuous use since, augmented by experimental vertical antennae at Adolph. Dave, naturally, writes based more on his interest in reception of TV signals with a v-antenna, while my interest is exclusively FM. I commend to anybody who has been following Dave's articles to review, or read for the first time, my 1975 article, which is still valid, inasmuch as not all FM stations have switched to the v and h modes, as Dave tends to imply. There are still hundreds of horizontally polarized-only FM stations across the country.

Thus Dave's statement in part I, p. 18 is not quite true, where he says: "The big 'push' to vertical polarization for FM stations began, in earnest, perhaps five or six years ago. During that time, a lot of DXers could have taken advantage and received a lot more stations, if they had known which were horizontal and which were both horizontal and vertical..."

Even today, you will find many instances where you can use your vertically-mounted FM receiving antenna to cut through the signals of horizontal-only FM stations--and the FM Atlas lists them all. I take pride in showing exactly which FM radio stations have both vertical and horizontal and which FM radio stations are horizontal only. Also, the current edition indicates which FM stations have less power in the vertical plane (where there are power differentials), and what both the vertical and horizontal effective radiated powers are. If Dave had an FM Atlas and used it, he could benefit even more from his experiments with vertical antennae at FM frequencies. For example, right in his home area the following FM stations are horizontal only: WYMS \*88.9, WUWM \*89.7 Milwaukee, WLIP-FM 95.1 Kenosha, WNBC \*102.5 Madison, WEKZ-FM 93.7 Monroe, WGLB-FM 100.1 Port Washington, and WMIL 106.1 Waukesha. By consulting the Atlas, he would know what other stations have only h, and which others also have v.

Even more serious for the DXer with limited funds and limited tower space--the DXer who must choose between vertical and horizontal--is the erroneous impression Dave gives that a vertical installation will result in more DX than a horizontal installation. While Dave's experience with listening to CFCA (not CKCO-FM) 105.3 Kitchener ON might have indicated stronger average signals over Lake Michigan over the v path rather than the h path, this is not typical, judging from my experience.

The main drawback on relying on a v receiving antenna is that you cannot as effectively rotate your antenna to null out interference in the v plane as you can in the h plane. I believe this phenomenon is explained by careful reading of James E. Kluge's article on stacking TV antennas, starting on p. 19 of the August 1976 VUD. My understanding of that article is that a signal coming in roughly parallel to the horizon will strike all elements of a v antenna at



(Dr. Bruce F. Elving, continued)

about the same time regardless of how the antenna is aimed, while for the h antenna, certain elements will reinforce and certain elements will null out the signal depending upon the antenna's orientation. Combining Kluge's and Janowiak's articles one finds that virtually the only advantage of using a v antenna is in skip, where the signals would be coming in at an angle considerably different from that of a below-the-horizon tropo signal.

So serious is the inability of a v-only receiving antenna to be effectively aimed to minimize interference from one FM station (transmitting a v signal) in order to receive another FM station (also transmitting a v signal) on the same or an adjacent frequency, that such an installation should be attempted, in my opinion, only by people who have first put up a deluxe horizontal antenna system. The v system should exist only as a supplement to the h system, complete with its own lead-in, and an antenna switch at the receiver to permit instantaneous selection of v or h signals. My switch has a third position to which I have attached the lead-in from an omnidirectional FM dipole antenna.

The final argument against going exclusively v in your installation is that, in a few cases, stations send out less power in the v plane than in the h plane. This is not as true today as it was 5-10 years ago, but there are still examples of it around, as a check of the by-frequency part of the FM Atlas would confirm. CFCA 105.3 Kitchener has 100 kw h and 88 kw v, which to the DXer is probably not a significant difference. But look at KQYN 95.7 in Twentynine Palms CA with 5000 watts h and only 93 watts v!

And, despite this reliance primarily on reception of stations by h antenna (even though having access to rather good quality v equipment), even for skip, a quick check of Andy Bolin's FM Statistics column, p. 13, March VUD, will show that I have not been handicapped by this attitude, having more skip stations listed on FM than any other DXer.

I believe DXers, throughout the history of radio, have been famous for disproving the "myths" of science by detecting the presence of signals that the engineers could not have expected, following theory. Dave Janowiak, unfortunately, writes more as a scientist than as a DXer who has extensively tried out the theories that he expounds.

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Bruce, because of your comments and similar remarks forwarded by other DXers, we are seriously considering termination of the already-delayed polarization series where it stands. Members' views on whether or not the articles should be continued are welcome. In the meantime, until the issue is decided, the TECHNICAL-CORNER column will concern itself with other subjects.

In March, we published comments from member Al Ellis of Brantford, Ontario, expressing his dissatisfaction with the 1977 World Radio TV Handbook, which was offered to WTFDAers at a special discount price for the first time. We promised to discuss his remarks in April, but became too tied up in other matters to prepare the column last month. Al's comments are reprinted below for convenience:

It is my hope that those who bought that reasonably priced World Radio TV Handbook find it a better buy than I did. To my way of thinking, there is no other publication printed as useless as that is for our use...not even worth the money spent mailing it to and from.

"Caveat emptor" ("let the buyer beware"--CWI) is even more so today than in the past. Every budding author has the very latest and "must have" book. Without it you cannot operate with any degree of intelligence...so "be dumb, and buy my book," is the attitude. Could not some member of the (Board of Directors) be our monitor on what book is good and what is rubbish? Every other year or so, up pops another "must have" book, highly touted by its author, who has something to sell. Having books printed can be a money-losing business; they have to sell them, even when they smell to high heaven. This I had to add in fairness to those who will take us, IF we allow it. Presumably, had I written this earlier, it would have been "sour grapes."

(continued on page 15)



# FM NEWS

## New Stations Granted

AL Greenville WKXN 95.9 3000 h,v; 226'  
 AK Petersburg \*100.9 10  
 AK Wrangell \*101.7 10  
 AZ Prescott K280AN 103.9 10 (translator of  
 KDNB-FM 93.3 Mesa AZ); \$, p  
 CA Eureka 92.3 100000 h,v; 230' 28 miles  
 primary; 72 miles secondary  
 CA Oroville 97.7 3000 h,v; -47'  
 CA Turlock 98.3 3000; 160'; 11, 38 mi; r  
 CO Boulder K269AA 101.7 \$ c (KVOD 99.5  
 Denver CO translator); 10 watts  
 GA Gainesville \*89.1 10 Brenau College  
 GA Valdosta 95.9 3000 h,v; 300' 15, 46 mi  
 KS Derby 95.9 3000 h,v; 300' [miles  
 KS Dodge City 93.9 100000 h,v; 566' 38, 82  
 MN St. Louis Park \*91.7 10 Schools  
 OH Fremont W296AA 107.1 \$ g (WPOS 102.3  
 Holland OH FM translator), 1 watt  
 OH Jefferson (or "Jefferson Village" or  
 "Jefferson Township"--near Ashtabula)  
 \*88.9 1600 h,v; 220'  
 OK Goodwell \*91.7 380 (h); 120' 5, 23  
 miles primary and secondary, respectively  
 --OK Panhandle's first FM!  
 TX Plains \*90.7 10 Schools  
 WV Buckhannon \*89.9 10 WV Wesleyan Col.  
 WY Ethete \*89.7 10 Wind R. Indian Res.  
 WY Sundance K296AV 107.1 (KOLL-FM 93.5  
 Gillette WY translator)  
 BC Cache Creek & Ashcroft CFFMFM 95.3  
 125 watts. BC Williams Lake CFFMFM  
 97.5 176 watts.  
 NF Port Hope Simpson 105.1 83 watts. CFB  
 (AM) Happy Valley NF repeater, CBC.  
 ON London 99.3 22500 - CBC French, CJBL  
 (AM) Toronto repeater. Previously announced  
 grant for a news station at London  
 on 99.3 to David Ruskin now moves to  
 a channel not known and to be decided  
 and announced later.  
 ON Windsor 89.9 100000 \$, c CBC  
 PQ Gaspe 103.1 79  
 PQ Riviere au Renard 97.9 58 watts  
 Above two stations nonprofit, but not  
 necessarily noncommercial.

**On Air and DX Ready (presumed)**  
 AR Walnut Ridge KCAC-FM 106.3 3000 h,v;  
 200' E. CA Pasadena KRQO-FM 106.7 \$ p  
 25500 h,v; 660'; no active SCA. On air  
 despite several strike applications on  
 file for the channel.  
 CO Durango KDUR \*91.9 10  
 FL Arcadia WOKD-FM 98.3 3000 h,v; 195'  
 IA Cherokee KCHE-FM 92.1 (or 102.3) 3000  
 h,v; 210'. Tune in KCHE-FM and let us  
 know what channel they're really on!  
 NC Chapel Hill WXYC \*89.3 400 h,v; 280' \$p  
 NC Wilkesboro WSIF \*90.1 10  
 NY New York WDAI \*99.5 5400 h, 3800 v  
 1220' -- back on the air!  
 OH Dayton WWSU \*88.5 10

TX College Station KAMU-FM \*90.3 3210;  
 340'; \$, cj, National Public Radio  
 WA Tacoma KUPS \*90.1 10

**On Air with Changes (selected)**  
 GA Manchester WFDR-FM 93.3 100000 h,v; 460'  
 LA Shreveport KRMD-FM 101.1 " " 970'  
 MS Cleveland WCLD-FM 103.9 3000 " 300'  
 MT Bozeman KGLT \*91.9 2000 h,v; 185'  
 WV Charleston WQBE 97.5 50000 h,v; 500'  
 PR San Juan WIPR-FM \*91.3 125000 h,v; 2720'  
 65, 119 miles--greatest FM coverage in  
 America!

## Facilities' Changes

AL Birmingham WDJC 93.7 100000 h,v; 550'  
 AZ Phoenix KBBC 98.7 adds vertical  
 CA Tracy KSRT 100.9 300' (3000 h,v)  
 CO Denver KKXK 95.7 750' (100000 h, 85000v)  
 FL Clearwater WOKF 95.7 100000 h,v; 450'  
 FL Jacksonville WQIK 99.1 90000 h,v; 570'  
 FL Miami WLRN-FM \*91.3 adds v  
 GA Americus WIPE 94.3 adds v - serves Plains  
 GA Louisville WPEH-FM 92.1 300' (3000 h,v)  
 ID Twin Falls KEJZ 95.7 620' (50000 h,v)  
 IL Springfield WSSR \*91.9 has v  
 IN Batesville WRBI 103.9 1950 h,v; 360'  
 IN Pendleton WEEM \*91.7 has v; claims 54 m  
 h,v, which is impossible with a 10-watt  
 transmitter, so I don't believe that!  
 MI Detroit WABX 99.5 6500 h,v (870') Dolby  
 MI Sault Ste. Marie WSUE 101.3 90000 h,v, SCA  
 OH Youngstown WHOT-FM 101.1 adds v [(220')/]  
 OR Portland KPQD-FM 93.7 has v [850']  
 OR Springfield-Eugene KSND 93.1 26500 h,v/  
 TX Conroe KNRO 106.9 98000 h,v (530') ON AIR  
 with enlarged facilities!  
 TX Dallas KKDA-FM 104.5 700' (100000 h,v)  
 UT Salt Lake City KSL-FM 100.3 26000 h,v  
 (3740'); qualifying for maximum allowed  
 Class C coverage: 57, 108 miles, Dolby;  
 presumably deleting directional antenna.  
 VA Exmore WEXM-FM 107.5 50000 h,v (260')  
 VA Harrisonburg WEMC \*91.7 adds v  
 WA Prusser KACA 101.7 -255' (3000 h,v)  
 WA Spokane KXRR-FM 93.7 56000 h,v (2380')  
 WV Fairmont WFGM 97.9 32000 h,v; 600' [(820')]  
 WI Wausau-Milwaukee WEZW 103.7 19500 h,v/  
 ON Brampton CFNY 102.1 100000 (EHAAT and v  
 not known); \$, p  
 ON London 99.3 news station to move to new,  
 unknown and unannounced frequency  
 ON Toronto CFGM-FM 107.1 40000 h,v; 1380'

Bruce F. Elving, Editor  
 18 1/2 East Fifth Street  
 Duluth MN 55805

## Non-IDers (Selected)

(Including some stations that pronounce  
 their call letters, which I do not consider  
 to be true nonIDERS.)  
 \*89.3 NC Chapel Hill X-89 [SCA  
 93.1 HI Honolulu KMQO 93-0, r (not rm) no/  
 93.9 CA Los Angeles KPOL-FM 94-FM  
 95.1 HI Wailuku KAOI FM-95  
 97.5 WV Martinsburg WESM Stereo 97  
 97.9 CA Long Beach KNOR FM-98  
 98.7 CA Los Angeles KJUI "K-Joy" [-98]  
 98.7 DC Washington WMD Music 98 (from FM/  
 100.7 VA Harrisonburg WQFO Q-100  
 101.9 CA Glendale KUTE "Cute" No SCA heard  
 103.5 CA Los Angeles KOST "Coast"  
 105.9 CA Los Angeles KWST "K-West," 106-FM

## Stereo Added or Resumed

AL Gadsden WEXP \*91.5, with v, cmj & r.



WEXP bills itself as "An Experience in  
 Sound." 3500 h,v; 76'.  
 CA Los Altos KFJC \*89.7 p (from rs)  
 CA St. Helena KVYN 99.3  
 CO Colorado Springs KRCC \*91.5  
 DC Washington WPEW \*89.3, j, 24 hours  
 IL Morton WTAZ 102.3, p (MT. Pleasant  
 IN Goshen WZOW 97.7, m (MHW \*91.5  
 IN Plymouth WTCA-FM 94.3 r (from mk)  
 KY Madisonville WDOF \*89.9, g, TV  
 ME Bangor WBSG 97.7; MN Anoka KTNW 107.9  
 NM Albuquerque KLYT \*88.3  
 ON Ottawa WPMN 106.3 r (not m); Y; SCA  
 OH Oxford WNUF \*88.5 [NY Monticello  
 VA Yorktown WYVA 94.1, ra [WSUL 98.3  
 WA Spokane KPX \*91.1

## Quitting Stereophony?

IL Benton WQRX 106.3 p (not rm)  
 IN Scottsburg WMPI 100.9 k (from kr)  
 PA Erie WCCK 103.7, heard without stereo,  
 but I doubt if this is a permanent con-  
 dition as WCCK is still on Dolby's list.  
 NS Kentville CKNW 97.7; stereo has never  
 been on this station and if stereo is  
 planned, it's probably a long ways off.

## SCA (67 kHz) Activities

AL Andalusia WQHQ 98.1 adds SCA  
 AL Florence WQLT 107.3 adds SCA  
 CA Chico KCHO \*91.1 adds SCA [heard  
 CA Compton KJLH 102.3 delete SCA; no SCA/  
 CA Fresno KFYE 93.7 music; KFRY 101.9 adds



## CKNX-FM STEREO 102 Wingham, Ontario

ON Wingham CKNX-FM 101.7 22000 h,v; 709';  
 32, 71 miles, Dolby, stereo.

CA Long Beach KLOK \*88.1 no SCA heard;  
 delete listing.



CA Los Angeles KPFF \*90.7 bird chirping  
telemetry only on its SCA NO SCA heard;  
CA Los Angeles KPOL-FM 93.9. delete listing  
KMET 94.7 " "  
KLOS 95.5 " "  
KFSQ 96.3 " "  
KGBS 97.1 " "  
KHOF 99.5 music  
KIQQ 100.3 music  
KRTH 101.1 Muzak  
KBIG 104.3 ethnic (Spanish music & talk) KBKA 105.1 no SCA heard;  
delete listing KNST 105.9 " "  
" " KLVE 107.5 " "  
" " [delete listing]  
CA Los Altos KPEN 97.7 no SCA heard/  
CA Mariposa KUBB 96.3 adds SCA  
CA Sacramento KZAP 98.5 delete SCA  
KWT 105.1 no SCA heard; delete listing  
CA San Francisco KOIT 96.5 gospel  
KEAR 97.3 no SCA heard;  
delete listing KABL-FM 98.1 " "  
" " KCBS-FM 98.9 music  
KYUU 99.7 music  
KDFC 102.1 ethnic (Chinese)  
KBRG 105.3 music  
CA San Jose KEZR 106.5 music [delete list.  
CA Santa Cruz KJSP \*88.9 no SCA heard; /  
CA Santa Rosa KBBF \*89.1 " " "  
CA Stockton KSTN-FM 107.3 music  
CA Walnut Creek KDFW 92.1 no SCA heard;"  
CA Woodland KSFN 102.5 " " "  
CO Pueblo KZLO 100.7 adds SCA  
CT Waterbury WIOF 104.1 adds SCA  
HI Honolulu KAIM-FM 95.5 no SCA heard;  
delete listing as an SCA station  
IL Decatur WSOY-FM 102.9 MZ (fast, brassy,  
factory-type Muzak)  
IL Macomb WJUM \*91.3 adds SCA  
IA Iowa City KRNA 93.5 adds SCA  
MI Escanaba WKZY 97.1 telemetry only  
MI Grand Rapids WMLW 101.3 adds SCA  
MI Muskegon Heights WKJR-FM 101.7 adds SCA  
MN Grand Rapids KAKE \*91.7 talking book  
MN Rochester KNXR 97.5 teletype noise  
NM Albuquerque WRKF-FM 94.1 adds SCA  
NY New York WRFM 105.1 drops music after  
only a few weeks with it; too many listeners  
complaining of noise in their stereo?  
NY Schenectady WNH-FM \*89.1 talking book  
NC Burgaw WPJC 99.9 adds SCA  
NC Williamston WSEC 103.7 adds SCA  
ND Grand Forks KKDQ 92.9 adds SCA  
OK Poteau KLCO-FM 97.9 " "  
OK Stillwater KOSU \*91.7 " "  
PA Jenkintown WJBF-FM 103.9 adds SCA  
UT Cedar City KBRE-FM 94.9 adds SCA  
WA Seattle KEUT 94.1 adds SCA  
WV Beckley WVPB \*91.7 adds SCA  
WI Marinette WLST 95.1 music (not Muzak);  
UPI Audio news on main channel  
WI Suring WRVM 102.7 drops SCA; still  
believed to be running much lower power  
than authorized.  
PR Carolina WOLA 107.7 sports relay

**wuwm**  
**fm 90**

**Call Letters Assigned**

AL Arab 92.7 WCRQ-FM  
AL Mobile 94.9 WKSJ (from WKSJ-FM)  
CA Lompoc 92.7 KLPC-FM (KLOM-FM)  
FL Tampa 100.7 WJWV (WAVV)  
GA Dublin 95.9 WOZY  
IL Chicago 97.9 WLUP ("W-Loop") (WSDM)  
IA Centerville 96.7 KMGO (KCOS-FM); g?  
IA Decorah \*89.5 KLCD  
KS Iola 99.3 KIOL  
LA Minden 95.3 KASO-FM  
MD Baltimore 97.9 WYYY (WBAL-FM); stereo  
resumed; p; drops NIS; has NBC news  
MA Boxford \*88.3 WBMT  
MI Escanaba 104.7 WFNN  
MI Newberry 93.5 WNBV-FM  
NM Denning 94.3 KDEM [p?  
NY Buffalo 103.3 WPHD (WYSL-FM); back to/  
NY Fredonia \*88.9 WJDL-FM  
NY New Rochelle 93.5 WRIN (WVOX-FM); \$?  
NY Sodus \*89.5 WSCS  
NC Statesville 96.9 WOOD (WDBM-FM)  
NC Wilmington \*91.3 WLOZ  
OH Bellefontaine 98.3 W100-FM (WOGM)  
OH Cleveland 106.5 WZZP (WXEN) ZIP-106!  
OK Ardmore 92.1 KRRO  
OK Enid 96.9 KNID (KCRC-FM)  
OR Albany 99.9 KRKT-FM  
PA Pittsburgh 105.9 WAMO (WAMO-FM)  
TX Alvin \*91.3 KACC  
TX Beeville KCGW (KJDF) - 104.9  
TX Marshall 103.9 KMHT-FM  
TX Mineola 96.7 KM00-FM  
TX San Antonio 97.3 WOAI-FM (KEEZ)  
TX Slaton 92.7 KJAK  
WA Onak 103.9 K2BOAH (not K2BOAN)  
WA Tacoma \*90.1 KUPS  
WI Appleton 105.7 WXXR-FM (WAPL-FM)  
WI Neenah-Menasha 100.1 NEMI  
Alta, Calgary 103.1 calls believed to  
be CJAY-FM, despite a CJAY-TV in  
Brandon, Manitoba.

NEW TRANSMITTERS INSTALLED -- STEREO?  
AL Roanoke WELR-FM 95.3  
CT West Haven WNHU \*88.7  
FL Sarasota WKZM 105.5  
NT Hamilton KLYQ-FM 95.9  
OR Klamath Falls KJSN 92.5  
OR Medford KBQY-FM 95.3  
TX Austin KUT-FM \*90.7  
TX Palestine KHIM 98.3  
WI Milwaukee WUWM \*89.7 plans to make  
some use of its 67 kHz, for which it has  
had authorization for several years.  
Probably talking book and/or instruc-  
tional programs. Still monaural on main  
channel.

For continuation of formats' changes,  
refer to the ABC Network listing on  
other page. Network abbreviations  
there, too. Program format abbreviations  
used in this column: c classical, e eth-  
nic, g gospel, j jazz, k country, L Lat-  
in, m middle of the road (easy-listening),  
p progressive rock, r rock, s soul, t  
talk. \$ = stereo.

**Deletion**

UT Panquitch K224AH 92.7 (KALL-FM 94.1)  
CC Colorado Springs KAFA \*89.7 may be  
deleted, as a reporter did not hear  
them on several checkings both on the  
base and in town.

**Formats/Networks**

AL Huntsville WDRH \*89.3 P, \$  
CA Arcadia KPFC-FM 107.1 eg, no SCA  
CA Camarillo KGAB 95.9 r (not nr)  
CA Concord KVHS \*90.5 r, \$  
CA Gilroy KFAT 94.5 kp; telephone calls  
heard on SCA; on with SCA rarely  
CA Lodi KWLN 97.7 U  
CA Los Angeles KNX-FM 93.1 r (not nr)  
KNST 105.9 p  
CA Los Gatos KRVE 95.3 m  
CA Mendocino KPCC-FM 92.7 mc (some r)  
CA Mountain View KSFH \*90.5 p (on 1300-  
2130 PST, M-F, school year only)  
CA Oxnard KPMU 104.7 m (from A)  
CA Sacramento KXOA 107.9 no A  
CA San Francisco KYA-FM 93.3 S (AP Audio)  
CA San Jose KSJS \*90.7 r  
CA San Rafael KTFM-FM 100.9 p (no Mutual)  
CA Santa Paula KAAP-FM 96.7 I  
HI Wailuku KAOI 95.1 mc, some Hawaiian  
music; some light rock  
HI Waipahu KULA 92.3 r  
IL East Moline WEMO 101.3 I  
IN South Bend WETL \*91.7 m, talk; some c  
IN Muncie WWHI \*91.3 r and talk  
KY Hodgenville WLCB-FM 106.3 k (from m)  
KY Leitchfield WNTL-FM 104.9 E  
MD Baltimore WJQZ 104.3 p (from r); now  
"DJQ-104," not "Q-104."  
MD Halfway WOCM 96.7 rp  
MD Towson WCVT \*89.7 cp  
MN Springfield WNAS-FM 94.7 soft r; drops E  
MA Rochester WRCH 101.7 p, \$  
NJ Newton W1XL 103.7 k (from m)  
NM Albuquerque KRKE-FM 94.1 no Y  
NY Binghamton WQYT 98.1 I  
NY Endicott WMRV 105.7 E (has v even though  
one reporter says they don't come in as well  
behind hills on a car radio as does WQYT  
98.1 Binghamton NY, also having v)  
OH Columbus WLWQ 96.3 rp (not just r)  
OH Cleveland WZZP 106.3 p (from e) "Zip-106"  
OH Zanesville WHIZ-FM 102.5 p (from m) mono  
PA Chambersburg WCHM 95.1 nr (from m)  
PA Greencastle WKSL 94.3 mk (from m) "Castle  
Radio." PA Harrisburg WSEF 99.3 p (not nr)  
PA Wilkes-Barre WCLH \*90.7 p (was cr)  
WBRE-FM 98.5 S (to be quitting  
- NIS, but will be all-news)

SC Myrtle Beach WMYB-FM 93.5 rk  
TX Orange KOF KIDF 106.1 r, \$  
WV Berkeley Springs WCST-FM 93.5 rk  
WV Charles Town WZFN 98.3 k (from mk)  
WI Burlington WBSD \*89.1 rj  
WI Madison WNNC \*102.5 gc + translator  
WI Minocqua WNBH 95.9 km (not r)

**LAKELAND**  
**COMMUNICATIONS, INC.**  
MINOCQUA, WISCONSIN 54548



STATION  
W W M H  
WI Sheboygan WUJR 97.7 r (from m)  
NB Moncton CFQM 103.9 m; \$; Dolby

**ABC Network Changes—All Four Radio Networks**

These changes result from monitorings of ABC's closed circuits and checking through ABC's published list of affiliates in the trade press. In many cases it is assumed that the FM affiliate carries the network programming, even though the network lists the affiliation for the AM station. DXers should check to see if affiliates in their area actually do carry one of the listed newscasts on a Monday-Friday basis between 6 a. m. and midnight. Network abbreviations: A ABC-FM, B National Black Network, C CBS, E ABC Entertainment, I ABC Information, M Mutual, N NBC, P National Public Radio, S Associated Press Audio, U United Press Audio, Y ABC Contemporary, Z Mutual Black Network. In the list which follows, + means adding the network; - means dropping it.

**American Contemporary Network**

AL Alexander City WRFS-FM106.1  
 AL Montgomery WHYY-FM101.9(+)  
 AZ Flagstaff KFLG 92.9 +  
 AZ Phoenix KBBC 98.7 + & xltr.  
 AR Fort Smith KMAZ 99.1 -  
 AR Paragould KHIG 104.9 -  
 CA Marysville KRFD 99.9 -  
 CA Palm Springs KDES-FM 104.7+  
 CA Santa Ana KYMS 106.3 -  
 CO Sterling KYOT 96.7 -  
 FL Bonita Springs WLEQ 95.9 +  
 FL Pensacola WAJB 107.3 YI /M)  
 (WHYY-FM above was I; WLEQ was  
 FL Pompano Beach WCKO 102.7 Y  
 (+, Z). GA Athens WAGQ 104.7  
 +. GA Buford WGO 102.3 +  
 GA Hawkinsville WCEH-FM 103.9-  
 GA Vidalia WTCQ 97.7 + (was A)  
 GA W. Point WCJM 100.9 + " "  
 ID Blackfoot KBLI-FM 97.7 +  
 IL Carbondale WCIL-FM 101.5  
 - (was EY)  
 IL Danville WJUN 92.1 + (see WVWV  
 IL Ottawa WRKX 95.3 - 103.9 +  
 IL Pekin WZRO 104.9 - /E)  
 IL Watsika WQFA-FM 94.1 Y (was  
 IN Indianapolis WNAF 93.1 -  
 KS Kansas City KUDL 98.1 +  
 KY Corbin WYGO-FM 99.3 +  
 MD Braddock Heights WZYO-FM  
 103.9 +. MI Clare WRNN 95.3 +  
 (was E). MN Grand Rapids  
 KXGR 96.7 +. MN Marshall  
 KMHL-FM 100.1 +. MS Booneville  
 WBIJ-FM 99.3 +. MS Greenwood  
 WSWG-FM 99.1 -. MS Hattiesburg  
 WHSY-FM 104.5 + (was A)  
 MS Laurel WNSL-FM 100.3 -  
 MO Moberly KRCS 104.7 -  
 MO St. Louis KXSS 107.7 + /U)  
 MT Billings KOYN-FM 93.3 Y (was  
 MN Carson City KBBC 97.3 +  
 NH Conant WBNC-FM 93.5 - M)  
 NY Oneonta WSRK 103.9 + (was /  
 NY Riverhead WRCA-FM 103.9 -  
 NC Statesville W000 96.9 +  
 ND Bismarck KFYR-FM 92.9 -  
 ND Grand Forks KYTN 94.7 -  
 OH Marion WDFI 94.3 +  
 OH Toledo WKLR 99.9 - (still Z)  
 OH Waverly W180 100.9 +  
 OK Stillwater KVRB 105.5 -, P  
 OR Eugene KFYR 97.9 + (was E)  
 SC Columbia WNOK-FM 104.7 + /I)  
 SC Georgetown WGBB 97.7 + (was  
 SD Aberdeen KSDN-FM 94.1 +  
 SD Yankton KQHU 104.1 + /A)  
 TN Dyersburg WASL 100.1 + (was  
 TN Louisville WTHJ +  
 TN Tullahoma WBYG-FM 93.3 +  
 TX Austin KHFI 98.3 + /E)  
 TX Corsicana KCIK 107.9 + (was  
 TX El Paso KINT-FM 97.5 + (was  
 A)

**American Entertainment Network**

AL Southboro WCNA 98.3 +  
 AR Helena KCR1 103.1 +  
 AR Searcy KSER 99.3 +  
 CA Hemet KHSJ-FM 105.5 +  
 CA Los Angeles K1QQ 100.3 -  
 CA Mojave KOOL-FM 97.7 +  
 CA Santa Rosa KVRE-FM 101.7 +  
 CA Yuba City KHGX 103.9 -  
 CO Pueblo KZLO 100.7 +  
 FL Jacksonville WKTZ-FM 96.1 -  
 FL Riviera Beach WGMW 94.3 +  
 (was Y). GA Dawson WMDW-FM92.1+  
 GA Tifton WCUP 100.3 +  
 GA Waynesboro WNGA 100.9 +  
 ID Emmet KMFE 101.7 -  
 ID Moscow KRPL-FM 103.9 + (was A)  
 IL Eldorado WNSI 102.3 +  
 IL Mendota WGLC-FM 100.1 + (was I)  
 IL Plano WSPY 107.1 +  
 IN Columbia City WFDT 106.3 -  
 IN Ft. Wayne WPTH 95.1 -  
 IN South Bend WRBR 103.9 -  
 KY Stanton WSKV 104.9 + / (was I)  
 ME Waterville WTVL-FM 98.3 + /  
 MI Harrison WRKM 92.1 + (was A)  
 MN Red Wing KCUK-FM 105.5 - and  
 MN St. Peter KRBI-FM 105.5 both  
 - (were E), now no network)  
 MN Rochester KNXR 97.5 + (was A)  
 MT Plentywood KPMD 100.14 (+ M)  
 NE Grand Island KRGI-FM 96.5 +  
 NE Ogallala K1BC 93.5 +  
 NE Omaha KOPH-FM 94.1 + (was Z)  
 NJ Newton W1XL 103.7 + (was A)  
 NY Amsterdam WCSS-FM 97.7 +  
 NY Buffalo WNEO-FM 94.5 -  
 NC Durham WDCS 105.1 +  
 OH Bellefontaine W000-FM 98.3 +  
 OH Broken Arrow RGDW 92.1 + (was  
 A). OK Oklahoma City KEBC 94.7+  
 TN Camden WRJB 96.3 +  
 TN Erwin W1XS 103.9 + (was U)  
 TN Savannah WORM-FM 101.7 +  
 TX Abilene KNIT-FM 105.1 -  
 TX Brownwood KOXE 101.5 -  
 TX Denison KDSX-FM 101.7 + (was I)  
 WA Lynden KLYN 106.5 + (was A)  
 WA Richland KORD-FM 102.7 -  
 WA Spokane KXXR-FM 93.7 +

**American FM Radio Network**

AL Phenix City WE1Z 100.1 -  
 AZ Phoenix KNIX-FM 102.5 -  
 (translators, too)  
 AR Little Rock KXXA 95.7 -  
 AR Little Rock KLAZ 98.5 +  
 CA Arcata KXGO 93.5 -  
 CA Camarillo K6AB 95.9 -

CA Fresno KF1G 101.1 -  
 CA Salinas KRAY 103.9 -  
 CA San Diego KXYX 96.5 -  
 CA San Jose KSJO 92.3 -  
 CA Santa Clara KARA 105.7 -  
 CA S.Lake Tahoe KTHO-FM 103.1 -  
 CA Vacaville KUIK 95.3 -  
 CO La Junta KBLJ 92.1 -  
 FL Daytona Beach WWLV 94.5 -  
 FL Ft. Lauderdale WAXY 105.9 +  
 (was U). FL Gainesville WGLV  
 105.5 -. FL Lakeland WVMF 94.1-  
 FL Miami Beach WWL 93.9 -  
 FL Naples WRGI-FM 93.5 -  
 FL Orlando W01Z 100.3 + (was Y)  
 GA Columbus WRRH 104.9 +  
 GA Rockmart WZOT 107.1 -  
 ID Boise KBKB 92.3 +  
 IL Bloomington WNOG 101.5 -  
 IL Galesburg WBAQ 94.9 -  
 IL Marion W00D 107.3 -  
 IN Danville WGR7 107.1 +  
 KY Elizabethtown WQXE 100.1  
 KY Ft. Campbell WABD-FM 107.9 +  
 (was Y). KY Jamestown WJRS  
 104.9 -. KY Winchester W0D3 100  
 100.1 adds E (this is in wrong  
 column). /N)  
 LA Baton Rouge WFMF 102.5 + (was  
 ME Presque Isle W0HP 96.9 -  
 MD Frederick WFRF 99.9 + xltr.  
 MA Boston WROR 98.5 +  
 MA Lowell WSSH 99.5 -  
 MA New Bedford W0YS 98.1 -  
 MA Worcester WAAF 107.3 - YZ)  
 MI Ann Arbor W1QB 102.9 + (was /  
 MI Battle Creek WKFR 103.3 -  
 MI Bay City W10N 96.1 - /NY)  
 MI Jackson W1F1 94.1 + /Albany  
 MS Corinth WADI 95.3 - /WHL  
 MS Drew W0RU 95.3 + /103.1+  
 MS Natchez WQNZ 95.1 + (was Y)  
 MO Jefferson City KJFF 106.9 -  
 MO Kansas City KYY5 102.1 -  
 MT Billings KURL-FM 97.14 trans-  
 lators - /NY Buffalo WGRD 96.9-  
 NV Las Vegas KLUC-FM 98.5 +  
 NV Las Vegas KFMS 101.9 -  
 NM Albuquerque KMYR 99.5 -  
 NM Farmington KRWN 92.9 -  
 NM Hobbs KSCR 95.7 -  
 NM Las Cruces KASK 103.1 +  
 NY Hyde Park W0VS 97.7 -  
 NY Rochester W0FM 98.9 + (was Y)  
 NY Syracuse W0TQ 93.1 -  
 NC Rocky Mount W0FA 100.7 -  
 NC Washington W1TN-FM 93.3 +

NC Wilmington WHSL 97.3 YA and  
 as listed to be rock music now.  
 OH Ashtabula WROE-FM 97.1 -  
 OH Cincinnati WKRR 101.9 -  
 OH Toledo W0HE 92.5 + (was M)  
 OH Toledo W1OT 104.7 -  
 OK Nowata W10L 101.5 + (was I)  
 OK Lawton KNFB 94.3 -  
 OK Tulsa KMOD 97.5 -  
 OK Tulsa KKUL 103.3 +  
 PA Clearfield WCPA-FM 93.5 -  
 PA Erie W1VU 99.9 -  
 PA York WYCR 98.5 -  
 SC Beaufort WBEU-FM 98.7 -  
 SC Florence WSTN 106.3 -  
 SC Spartanburg WSPA-FM 98.9 -/U)  
 TN Fayetteville WYTM 105.5 + (was  
 TN Jackson WKIR 104.1 - (was E)  
 TN McMinville W0MC-FM 103.9 -  
 TN Memphis W0UD 104.5 -  
 TX Big Spring W0KS 95.3 -  
 TX Corpus Christi K1QQ 96.5 -  
 TX Galveston K1FO 106.5 -  
 TX Jacksonville K001 106.5 -  
 TX Lubbock KWGO 99.5 +  
 TX McAllen KQXX 98.5 -  
 TX Palestine K1IS 94.3 -  
 TX San Marcos KLSW 103.7 -  
 TX Victoria K1XN 98.7 -  
 UT Ogden KOPD 101.9 -  
 UT Salt Lake City KWHD-FM 93.3 +  
 UT Salt Lake City KALL-FM 94.1 -  
 (also affecting all of KALL-FM's  
 translators)  
 VA South Boston WJLC 97.5 -  
 WA Seattle KVI-FM 101.5 -  
 WA Seattle KZOK 102.5 +  
 WI Madison WZEE 104.1 -  
 WI Racine W1FY 92.1 -  
 WY Cheyenne KFBC-FM 97.9 AI

**American Information Network**

AL Abbeville W1XE 94.3 +  
 AL Enterprise W1RB-FM 96.9 +  
 AL Monroeville W0FC-FM 99.3 +  
 AZ Globe K1KO-FM 100.3 +  
 AR Berryville KAAM 107.1 +  
 AR Dardanelle KWKK - 102.3 +  
 AR Hot Springs KBHS-FM 96.7 +  
 AR Little Rock KEZQ 94.1 -  
 AR Mountain Home K1LO-FM 98.3 -  
 CA San Diego K5ON-FM 97.3 + (was  
 Y). CA Twentynine Palms KQTN  
 95.7 -. CO Aspen KSPN 97.7 +  
 (was A). CO Ft. Morgan KBRU 101.7-  
 GA Americus W1UR 97.7 -  
 GA Savannah WJCL-FM 96.5 - (was A)  
 IL Olney WSEI 92.9 -  
 IL Sullivan W1NA 106.3 + (was A)  
 IN Kokomo W1WZ 93.5 (92.7) + (was C)  
 IN Peru WARU-FM 98.3 -  
 IN Valparaiso W1JE 105.5 + (was MU)  
 IN W.Terre Haute W0VS 105.5 -  
 LA Lafayette K1DY 99.9 - (was IE)

**WHSL**  
**Becomes**  
**WHSL-FM Stereo**  
**At**  
**97.3**



ABC Network Affiliation Changes - ABC Information Network Continued

|                                   |  |                                 |   |
|-----------------------------------|--|---------------------------------|---|
| LA Monroe KNOE-FM 101.9 + (was A) | MO Portageville KMIS-FM 106.3 +                    | NY Oneonta WONT 103.1 + (was A) | TX Wichita Falls KLUR 99.9 +                |
| ME Rockland WRXO-FM 93.5 + (* 1)  | MO Springfield KWTO-FM 98.7 +                      | NC Elkin WIFM-FM 100.9 +        | UT Cedar City KBRE-FM 94.9 & xltr + (was A) |
| MD Baltimore WJQJ 104.3 -         | (was Y). MT Glendive KIVE 96.5 & translators - (A) | NC Franklin WFSC-FM 96.7 +      | VA Roanoke WPVR 94.9 & xltr -               |
| MD Cumberland WPMV 102.9 -        | MT Missoula KYSS-FM 94.9 + (was/                   | NC Wilson WXYI 105.1 +          | WI Marshfield WDLB-FM 106.5 -               |
| MA Pittsfield WQRB 105.5 -        | NE Sidney KSID-FM 95.3 +                           | OH Cincinnati WUBE-FM 105.1 -   | WY Sheridan KWOV-FM 96.5 +                  |
| MI Petoskey WJML-FM 98.9 -        | NV Reno KSRN 104.5 & xltrs -                       | OH Cleveland WOOK 102.1 - (N)   |   |
| MI Ishpeming WQOT 107.1 +         | NJ Ship Bottom WURJ 100.1 -                        | OH Columbus WBNS-FM 97.1 + (was |   |
| MN St. Cloud WJJO 98.1 -          | NM Humble City KPDE 94.1 +                         | OK Bartlesville KYFM 100.1 -    |   |
| MS Bay Springs WKYI 93.5 +        | NY Roswell KBIM-FM 94.9 -                          | OR Newport KNPT-FM 102.5 +      |   |
| MO Carthage KRKG 104.9 -          | NY Hammondsport WVIN-FM 98.3 -                     | PA Pittsburgh WEEF-FM 107.9 -   |   |
| MO Clinton KDKB-FM 95.3 +         | NY Johnstown WIZR-FM 104.9 + (was                  | PA Sharon WYFM 102.9 I (was A)  |   |
| MO Kirksville KRXL 94.5 + (was A) | U)   | PA Union City WALR 104.9 +      |   |

DOMINICAN REPUBLIC--ACTIVE FM STATIONS

| City          | MHz   | Call    | Music | Watts | Slogan               | AM Adjunct | MHz  | Call        | Music   | Watts   | Slogan | AM Adjunct         | MHz                      |  |
|---------------|-------|---------|-------|-------|----------------------|------------|------|-------------|---------|---------|--------|--------------------|--------------------------|--|
| Alto Bandera  | 102.7 | HIFA-FM | L     | 2000  | HIFA                 |            | 1380 | 92.5        | HION-FM | L       | 50     | Radio Central      | 1040                     |  |
| La Romana     | 97.7  | HI      | m     | 200   | Radio Guia           |            | ?    | 92.9        | HIEGFM  | m       | 1000   | Radio Femina       | 1595                     |  |
| La Vega       | 92.7  | HIDL-FM | L     | 250   | Radio Novedades      |            | ?    | 94.9        | HJLP    | m       | 100000 | Comercial Estéreo  |                          |  |
|               | 97.9  | HIGV-FM | L     | 2000  | Radio Santa Maria    |            | 590  | 95.7        | HJBJ    | m, n, c | 1000   | HJBJ               |                          |  |
| Puerto Plata  | 97.3  | HIF     | m     | 50    | La Voz del Atlántico |            | ?    | 96.5        | HIMS-FM | L       | 50     | Radio Cristal      | 570                      |  |
|               | 99.7  | HIBN    | m     | 50    | Radio Puerto Plata   |            |      | 97.5        | HIGO    | m       | 1000   | HIGO               |                          |  |
| San Francisco | 94.7  | HICJ    | \$v   | 1000  | Radio Merengue       |            |      | 98.0        | HIAT-FM | L       | 200    | Radio Universal    | 650                      |  |
|               | 107.7 | HIBIFMS | m     | 50    | HIBI Radio           |            | 1070 | 98.2        | HIL-FM  | L       | 50     | La Voz del Trópico | 790                      |  |
| San Juan      | 100.1 | HIBZ-FM | L     | 50    | Radio Centro         |            | 1340 | 99.5        | HIXZFM  | m       | 10000  | Radio Listín       | 1350                     |  |
| Santiago      | 89.0  | HIJC    | m     | 150   | Radio Maiba          |            |      | 103.1       | HIBE-FM | L       | 50     | Radio Mil          | 1180                     |  |
|               | 90.1  | HIRL    | m     | 1000  | Radio Exitos         |            |      | 103.7       | HIBA-FM | L       | 200    | Radio Popular      | 920                      |  |
|               | 92.1  | HICK    | m     | 50    | Ondas del Yaque      |            |      | 105.1       | HICM-FM | L       | 250    | Radio ABC          | 540                      |  |
|               | 93.1  | HIBG-FM | L     | 50    | Radiolandia          |            | 1160 | 106.1       | HI      | m       | 100    | Radiorama          |                          |  |
|               | 94.3  | HIAQ    | r     | 200   | Radio Azul           |            |      | 106.5       | HIT-FM  | L       | 50     | Radio Visión       | 1260                     |  |
|               | 95.1  | HIAAFMS | L     | 50    | Radio Ritmos         |            | 560  | 107.1       | HIFA    | m       | 1000   | HIFA               |                          |  |
|               | 97.1  | HISA-FM | L     | 500   | Radio Cibao          |            | 980  | Villa Tapia | 99.7    | HIVP    | m      | 50                 | Radio Cumbre +67 kHz SCA |  |
|               | 98.3  | HIDB-FM | L     | 50    | Radio Libertad       |            |      |             |         |         |        |                    |                          |  |
|               | 101.8 | HILM    | m     | 200   | Radio Amistad        |            | ?    |             |         |         |        |                    |                          |  |
|               | 103.5 | HIAQ    | m     | 1000  | Radio Monumental     |            | ?    |             |         |         |        |                    |                          |  |
|               | 106.1 | HISC-FM | L     | 50    | Radio Nacional       |            | 1380 |             |         |         |        |                    |                          |  |
| Santo Domingo | 88.6  | HILF    | m     | 1000  | Radio Mirador        |            |      |             |         |         |        |                    |                          |  |
|               | 89.1  | HIZ-FM  | L     | 250   | HIZ                  |            | 730  |             |         |         |        |                    |                          |  |
|               | 90.1  | HIAM-FM | L     | 200   | Radio Guarachita     |            | 690  |             |         |         |        |                    |                          |  |
|               | 91.1  | HIN-FM  | L, r  | 50    | HIN                  | [Pantera]  | 1220 |             |         |         |        |                    |                          |  |
|               | 91.7  | HIBL-FM | L, r  | 50    | Radio Pueblo, La /   |            | 1510 |             |         |         |        |                    |                          |  |

Also add to above list:

Alto Bandera 105.5 HILR-FM L 6000 Radio Clarin 860

Thanks to Richard Clark for this information, with updates supplied by Mike Dörner, and relayed through Ken Simon. Left out of this list are several stations listed as inactive, and "FM" stations not operating on the conventional 87.5 to 108 MHz band. If any of the inactive stations return to the air, please let us know, and word will be passed along.

MORE items of international interest relayed by Ken Simon -

A clip from the Sydney Morning Herald in 1976 says Australian TV channel 5 (101-108 MHz) is being vacated to make room for 15 to 35 FM stations. Currently Sydney has 2MBS-FM on 91.1 and ABC-FM on 92.9. 2JJ has 93.7 allocated as a rock station but lack of money is holding it up. There are three classes of FM station in Australia: (A) Australian Broadcasting Corp.; (B) Community stations; (C) commercial stations. Information from DON VOEGELE.

From DARIO MONFERINI in Milano, Italy, comes word of the chaotic Italian FM and TV scene. He says the government has declared its RAI monopoly dead and there are now about 1,200 FM stations and 150 TV stations. FM top power is 1 kw and he doesn't think there is much chance for skip! Lots of FM station news, all of it in Italian, was sent by Dario, so if anybody reads or speaks Italian in the club, let Ken Simon know. (Ken's address is 528 Pilgrim Road, West Palm Beach FL 33405.)

Digging through the Italian clippings and photocopies that came, it appears that the most popular Italian FM transmitting antenna is a two-bay vertically polarized, similar to what our (U.S.) FM stations might use to maintain private radio communication with a news vehicle (Marti units). A very extensive Italian FM listing sent along indicates that many of the FM stations in Italy broadcast in English, such as 96.00 Radio City Palermo and 102.50 Radio Palermo Stereosound, in Palermo. It is not clear from the list whether any RAI stations are included, or if the list is confined only to commercial stations. Also seemingly omitted are Vatican City's FM station(s) and San Marino's stations, which one would think would cover part of Italy itself.

TACKAERT in Belgium sent some information on the European FM scene. BRT2 has now gone stereo for Veltm 93.7 50 kw, Schoten 97.5 10 kw and Aalter 98.6 50 kw. British Forces Broadcasting is getting set to go stereo in West Germany. They just opened a new station on 101.5 in Birlefeld. SR-Sveriges Radio has announced plans for stereo on the 2nd and 3rd networks during 1978. Stockholm and Göteborg now have 2nd network stereo outlets.

FRAN **Sveriges Radio**   
105 10 STOCKHOLM

MIKE DÖRNER says that Radio Clyde, Glasgow, Scotland, and Radio Picadilly, Manchester, England, are now broadcasting quad over their FM stereo outlets.

**ALESSANDRIA - FM 101**  
  
TEL. 54.1111-casella postale 68

Although most of Italy's stations are small, there exist big stations as well, with pictures showing massive self-supporting towers and antennas that look like the huge Federal square loop antennas of a few years back here. I am sure a closer look might reveal circular polarization of many of these.

## Readers' Reports and FM Industry News

Dangerous precedent? FCC allows KSL, Inc. a waiver of the FM translator station identification requirement (which currently applies to translators having more than 1 watt). "Currently, the signal of KSL-FM is retransmitted by more than 30 FM translators in Utah, Idaho, Wyoming and Nevada. Three times daily, KSL-FM broadcasts a list of 32 FM translators that carry its programs, requiring about 1 1/2 minutes to complete." The Commission noted that the purpose of station identifications is so that FCC field inspectors can pinpoint the source of interfering stations. The waiver is permanent, for KSL-FM Salt Lake City. Perhaps the FCC should be notified that the station identification rule benefits more than Commission personnel — DXers, principally. A c. p. holder, KSCF 97.1 Florissant MO, tried to get the FCC to change its authorization from Class B to C, and allow it to go to 100 kw at 540', instead of its authorized power of 50 kw at 500', but the FCC threw the request out because of short-spacings to WBBA-FM 97.7 Pittsfield IL and KKSS 107.7 St. Louis (10.7 mHz removed).

CBC-FM Charlottetown PEI now on 96.9, with signal greatly improved in Nova Scotia; however, it is puzzling why the CRTC acts as it does, because CBC-FM now is interfered with often by WDPH 96.9 Presque Isle ME. A new CBC station for Halifax has been approved, to be 100 kw directional to the S. shore area of Nova Scotia, unnamed frequency, ----- but to be FM and a CBH AM repeater. As a result of years of complaining by residents of the south shore, the CRTC will be moving ahead and building this station to improve reception of CBC programming. No information as to whether this is to be a Canada-wide policy or not. Mike Dunn is wondering if it is proposed that AM network programming be spread throughout wide areas all over Canada by means of high power [and might I add non-identifying] FM stations? None of the Maritimes' low power repeaters on FM are on the air, such as CBHJ, CBHI. There are problems in getting equipment, although transmitter sites and phone links are reportedly in. No sign of the new CJCH-FM Halifax, although it has a construction permit. "No sign of them yet, and no amount of prodding can get any info out of station. . . They don't know when they are coming on." Robert McGowan, Burnham ME, contacted the manager of WTOS Skowhegan ME, who said it has no plans to move to 106.7 (from 105.1; 106.7 being the channel now allocated to Skowhegan by the U. S. FCC). "He told me that there is an allocation pending in Plymouth NH for the last 5 years that the FCC has yet to act on which may affect a change of antenna location for WTOS (?). . . A move to 106.7 might cause interference with WBZ-FM Boston, but he wasn't sure of this. He also said 'We like it here at 105.1, and plan to be here for a long time'. He also said WBLM Lewiston is seeking a power increase and become a Class C station; also WJBQ Scarborough a frequency change and power increase as a Class B station."

WHRW \*90.5 Binghamton NY now on 7 am to 4 am 7 days per week, and will try to maintain this long schedule all this summer. Joe Smith, Jr., Johns on City NY, lives near McIntosh's headquarters and now uses the MR-78 for his FM DX listening. While this is not an equipment review column, let's note his comparison with a Sony 5130 tuner, which he tried out this winter. He could hear WAMC 90.3 Albany while his local WHRW 90.5 was on the air with the McIntosh, but not with the Sony. He got the local stations on 35 different places on the dial with the Sony, but the McIntosh brought in locals at only one place on the dial where they did not belong. However, he says he befriended some of the engineers at McIntosh to modify his set so that it would perform more like a DX tuner than a hi-fi tuner. They "told me they are making a new tuner a MR-79, and when it is ready they are going to give it to me for two weeks and they want to know how good it will be for DXing. But it might be two years before the new tuner is ready." Admittedly, McIntosh products might be nice and they are treating Joe very well, but I find their advertising about the "FREE McIntosh Catalog and FM Directory" dishonest and deceptive, and have written their advertising manager asking that they refrain from claiming that their publication covers all of North America when it does not and from implying that they publish a useful and up-to-date list, when the list I received recently had information in it that was no newer than 5 years old. No reply to my letter to them yet, although I wrote in December, 1976. Joe would rather see music formats in the by-frequency part of the Station Directory rather than networks, because "you only hear the news for about five minutes and the music programs are for 55 minutes," and the networks change frequently—see especially the two pages almost full of changes in the ABC networks alone. Perhaps if somebody were to come to Duluth and do the tedious work of adding format data to my by-frequency list it could be done, but I just do not have the time.

Williamsport (PA) Area Community College plans to apply for \*88.1 with 10 watts, but have not yet mailed their application to the FCC, so says the "city edition" of Grit, a national paper published there. Several reporters mentioned WBAI 99.5 New York being back on the air, sounding like it did before. Their program director, Pablo Guzman, who was the center of controversy when the station was taken off the air, resigned. Another station with its share of troubles is WXPX \*88.9, which an FCC judge recommended to lose its license for broadcasting "licentious slime and nauseating verbiage," and without proper supervision by the licensee, the University of Pennsylvania. WGAL FM 101.3 Lancaster PA now WNCE — "Nice Radio"; format still m; "Nice 101," promos obnoxious."



The new WXYC #89.3 Chapel Hill NC doesn't answer its phone, but "they are putting one helluva signal out as received here in Durham about 8 miles away," writes Warren Bird. "X-89" will be on 5 am to 2 am. In Kentucky, WAKQ 101.1 Russellville, "KQ101," programs more to nearby Bowling Green than to its city of license. One writer with SCA equipment, Ted Fleischaker, feels it important to maintain the distinction in listings as to which stations have Muzak and which music, "because Muzak has a 1-2 minute pause of silence every quarter hour and this differs from the other services which program continuously. . . If the guy who complained would. . . listen to either or both any length of time as I do, he would know the difference immediately, which also means they could serve as an ID aid and also tell me which to listen to when on a trip (I favor the Muzak over the other). I find the Atlas valuable."

WTBI 105.7 McComb MS still not on the air; have they applied vanishing cream? Station WRES 105.7 Troy AL not observed on a recent tropo opening into southern AL; Mike Dornier wonders if the old WTUB is off the air again? Mike says AM can legally offer a fairly flat 50-15000 Hz response, but the limiting factor is poor signal to noise ratio on that band—especially in the South with frequent thunderstorms and higher noise levels on the band than in the North. On the Atlas: I prefer the maps retain call letters and not formats, as they are getting cluttered. Give institutional names for the EFM stations. This is more valuable than for commercial outfits newly formed for the purpose of running a radio station; we're really not that interested to know their corporate names. Also for DXers mailing a reception report postal employees know the commercial calls, but often a letter will not be delivered to a college station unless the institution's name is on the envelope. On listing non-IDers: "more stations are using them almost exclusively. . . Let's face it, call signs are a holdover from telegraphy days and have disappeared almost everywhere on the broadcasting scene except in North America. You rely on the help of DXers, which is good, since someone else does all this compiling, and club participation is broadened. You get info that helps the Atlas and the compilers get a satisfaction of seeing their work in print. . . The arrows on the maps look poor. . . Perhaps sectional maps are the answer; the breaking of scale such as on pp. 42-3 looks bad and is confusing; the one for California looks good."

WZZP 106.5 Cleveland OH now on with new 50000 watt, higher tower facilities, \$ rock.

Ralph Strobel in IN receives some 16 ten-watt FM stations, which he is taping, hopefully to be done before summer puts a stop to some of these stations' activities.

Charlie Taylor in Indianapolis caused me to go to the FCC rules and, he's right, there is nothing in that which limits the frequency response of AM stations. He feels all Indianapolis AM stations send out signals in excess of 10 kHz. He says I have been wrong to abbreviate FM's frequencies as mHz, that MHz (capital M means Mega, small m means milli, for 'megacycles' while kiloHertz should still be given as kHz, the capital H being for Herr Heinrich. Yet the FCC speaks of audio frequencies as "hertz," but capitalizes the abbreviation, "Hz." Taylor worked for the founder of WFMS 95.5 Indianapolis, Martin R. Williams. "There is no doubt in my mind that Mr. Williams liked neither the old WFMS format (after he sold it to Susquehanna), nor the new one. Unfortunately, the original format just didn't attract a large listenership."

## WWJR / FM 98

now has Drake-Chenault's top 40 contemporary sound. WWJR 97.7 Sheboygan WI deviates from this only from 7 to 10 am Sundays "to meet the public affairs commitment." In MN, Minnesota Public Radio will be buying time from noncommercial KBEM #88.5 Minneapolis to offer a classical music alternative 6 to 9 am M-F, while the network continues to offer Garrison Keillor and the Morning Show, with its folk music, comedy, poetry, and interviews. Cost of this service for 12 months: \$14000.

John Ebeling spent about \$2000 to give readers of this column special FM station and SCA news for Hawaii and southern California, so I am glad to make use of it. I also encourage others to take expensive vacations so that they can contribute information to this column! John was on several of the islands and found Honolulu stations coming in on the island of Hawaii, on Maui, on Kauai and on Oahu. KKEA Hilo not on air, not listed in phone book. KUMU 94.7 Honolulu "koo-moo". Could not get KKAI 96.3 while in Honolulu--passed thru town (Kailua) on bus, but no radio, not sure if on air, not listed in the paper. No SCA heard on any station. On Atlas, it would be helpful to have island names on map. . . island of Maui not drawn very well. In southern CA, John listened on his SCA-equipped portable, and supplied many of the SCA and format data listings elsewhere. He also noted that KCAB 103.9 Inglewood is still off the air. KYAC-FM Seattle 96.5 which has new call letters, KYYX, is pronounced "kicks."

KTOP-FM 100.3 Topeka applies for new calls-KDVV.

KUSF #90.3 San Francisco has been testing since December; good strength. KRJB 97.7 Monte Rio, KDVS #90.3 Davis, and the new Davis c.p. on 105.5 as well as [#88.1] El Cerrito are all still apparently not on yet. Sheldon Remington, Oakland CA, also has an SCA adapter and supplied much of the SCA news for northern CA in this column. He received my "FM DX Demonstration Tape," which I sell

for \$1.25, and enjoyed the old WOR-FM i.d. (And if you're new to the WTFDA and wonder what the FM Atlas is, which I publish, refer to the back cover for a description of the little book and ordering data.)

Pete Taylor sent an article, in Feedback (a publication of the Nat'l Assn. of Broadcasters) alluding to the old non-ID problem; the article was signed by John F. Hurlbut, president, WVMC and WSAB Mt. Carmel IL; "One reason why 'roadside' radio is gaining momentum has to do with broadcasters. You and I have both expressed our frustration at driving cross country and listening to radio stations that may have fancy jingles that do anything but tell you WHERE the station is. There are many ways of identifying beyond the legal requirements, and everyone knows if you're going to have any hope of attracting the itinerant traveler who is 'signal searching' his dial, then the call letters AND TOWN have to be mentioned pretty often. But if broadcasters continue to keep their locations so top secret, frustrating the traveler... a lot of motorists will be grateful to know WHERE to tune for the kind of information suggested in the proposal." I believe "Roadside Radio" is a proposal to string a long wire parallel to a freeway with AM radio programming on a special frequency. Radiation would be limited to over the roadway and programming would be full of travel tips, news of scenic attractions, special events, and commercials. I oppose the idea because it puts reliance on listening to moribund AM radio and not on FM (or FM-SCA1), while conventional broadcasters oppose it because it would siphon off listening by some of the travelers and advertisers might be attracted to it instead of using the facilities of regular stations. Mr. Taylor's station is

WBOE \*90.3 Cleveland is now stereo and NPR, but unchanged otherwise. "They come on with less than a minute of warm-up time at 6 a. m. 'This is WBOE the Bored (they do

# KFOG

104.5

Ghirardelli Square

San Francisco 94109

sound that way) of education station with studios and transmitter in Cleveland', then the Star Spangled Banner, followed with children giving the pledge of allegiance." Offering contradictory evidence on the AM "hi-fi" situation is Al Ellis from Ontario, who lived in San Francisco early in this century:

"All this baloney about hi fi in the broadcast band. Why does not some one mention that there are two stations in the continental U.S.A. with permits to do so and they have done so for years? The first is WQXR New York, and KXEL Waterloo IA. That to the best of my knowledge is all. . . WHAM in Rochester NY years ago installed the equipment for quality sound. Then had the lawyer make application to the FCC for permission to use it. I must mention here Stromberg Carlson, the quality radio firm, owned them then. Before their letter from the lawyer made it to Washington they received a letter from the FCC mentioning that they were doing a 'no-no,' and it would not be tolerated. . . Scott of Chicago made a number of nickel-plated hi-fi receivers for the broadcast band during the depression of the thirties, when ordered. Understand they did not sell any real amount of them. People used to hearing sound from the heater-cord type sets prevalent at that time would not have recognized quality sound had it tripped them. . . We have good FM on the market, so why try to make a silk purse out of a sow's ear? Some will claim all sorts of things to sell what they have for sale. Caveat Emptor." KEX AM Portland OR was heard at night in CA, and it did sound good to Don Voegelé, who continues to keep up to date on Australian FM developments. One thing he sent was an article giving the schedule of 3RMT FM 102.7, the Radio Station of the Royal Melbourne Institute of Technology, which seems to be a combination of public and student programming. Eric Norberg in Portland, KEX program director, feels if AM stereo is authorized more attention will be paid to AM bandwidth and overall quality in receivers.

Also from Canada, electronics expert Antonio Randaccio, reports he is still interested in FM DXing, but he is having some trouble with customs authorities for bringing into Canada monitoring equipment from Italy covering 20 to 1000 MHz. The new format of CKNX-FM 101.7 Wingham, Ont. is varied, "according to local variations of the new FM regulations of the CRT. Music varies from mor, rock, easy listening, country and specialized, with programming 6 am to midnight (on at 8 Sundays)."

CONTRIBUTORS last month: Paul R. Anderson, Hartford CT (who monitors ABC's daily "Closed Circuits" for news of new affiliates); Robert Baker, Humboldt IA; Thomas E. Connatser, Sevierville TN; Tom Cornell, Kokomo IN; David Cox, Birmingham AL; Dwight Crabtree, Lafayette NY; Mike Dorner, Metairie LA; Roland Earnst, WDOV-FM Dowagiac MI; John Ebeling, Bloomington MN; Al Ellis, Brantford, Ont.; Doug Everett, Enid OK; Wm. Falt, Willoughby OH; Ted Fleischaker, Louisville KY; J. Lobaito, WRSQ Geneseo IL; Nick Lombardi, Atlanta GA; Mark S. Lucas, Lancaster OH; Robert McGowan, Burnham ME; Rod O'Connor, SW Harbor ME; Gary Olson, L. Forest IL; Shelby Remington, Oakland CA; John Robertson, Crosswell MI; Allen Rockford, Syracuse NY; D. E. Smith, KUER Salt Lake City UT; Wm. Stanger, Scotia NE; R. J. Steinberger, Hudson MA; Paul D. Traska, Buffalo NY; Larry Weil, E. Rockaway NY; Bruce Winkelman, Greensboro NC. CONTRIBUTORS this month: Anderson, Jose Bahr, WVIS Frederiksted VI; Warren Bird, Durham NC; W.O. Dickerman, Williamsport PA; Dorner; Mike Dunn, now at PO Box 64, RR#2, Head of Chezzetcook, NS, Canada; Ebeling; Ellis; Falt; Robert Fischer, Fairbanks AK; Fleischaker; Robert L. Foxworth, New York NY; Harry Greenwald, manager, WWJR Sheboygan WI; Michael Hofmann (Lee Michaels) WMMH Minocqua WI; Clarke W. Ingram, Pittsburgh PA; Joe Markewicz, Hornell Heights, Ont.; McGowan; James Mead, Mt. Pleasant MI; Gary Moon, CKNX-FM Wingham, Ont.; Eric Norberg, Portland OR; Dave Poneroy, Topeka KS; L. E. Price, Wilmington NC; Antonio Randaccio, Montreal PQ; Remington; Jack Shusdock, Enfield CT; Andy P. Smith, Dillsburg PA; D. R. Smith, WEXP Gadsden AL; Joseph Smith, Jr., Johnson City NY; Ralph Strobel, Muncie IN; Charles A. Taylor, Indianapolis IN; Peter Taylor, San Francisco CA; Don Voegelé, Chico CA; Weil; Todd Williams, Oxnard CA; R. Zent, Huntington IN; John Zondlo, Hammond IN. Next month, I promise a shorter column!

# CANADIAN NEWS REPORT

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NORTH OF THE BORDER REPORT

MAY 1977

## TV NEWS \*\* APPROVALS

BCNAVISTA, NFLD CJBW-TV 20.65 kw. Pres: ch. 9 Auth: ch. 10  
RAMEA ch. 13 1200 watts ERP Sat. CBNT St. John's  
HERMITAGE ch. 4 6480 watts Sat. "  
ST. VINCENTS ch. 7 4537 watts Sat. CBNT-6 St. Mary's  
FOX HARBOUR CBNAT-10 ch. 7 Pres: 400 w., 560 ft. EHAAT Auth: 496 w., 582 ft.  
PETERS RIVER ch. 13 3.69 watts Sat. CJAP-TV Argentia  
WELLINGTON ch. 24 10 watts xmtr power Sat. CBNT  
RANDOM ISLAND ch. 43 10 watts "  
ST. GEORGES DE BEAUCO, PQ CBVT-1 Pres: ch. 2 9.7 w. Auth: ch. 6 13.2 w.  
BAIE JAMES ch. 4 231 watts Sat. CBC FR via ANIK  
ASBESTOS HILL ch.11 (FR) & ch.13 (ENG) 10.5 w. ERP each CBC via ANIK  
KITCHENER, ONT CIOO-TV-28 ch. 28 Pres: 170 kw. Auth: 122 kw. with increase EHAAT  
SAULT STE MARIE OJIO-TV Pres: ch. 2 28 kw. Auth: ch. 5 100 kw. new site  
SAULT STE MARIE NEW ch. 2 100 kw. CTV affiliate by owners of OJIO  
KAPUSKASING OFOL-TV-3 ch. 2 Pres: 96 watts ERP Auth: 984 watts  
HEARST OFOL-TV-4 ch. 4 Pres: 98 w. Auth: 1013 w.  
CHAPLEAU OFOL-TV-6 ch. 7 Pres: 101 w. Auth: 959 w.  
ARBURG, MAN CKYA-TV ch. 8 Pres: 1.94 kw. Auth: 31 kw. site to Fisher Branch  
W. BATTLEFORD, SASK CKBI-TV-2 ch. 7 Pres: 315 w. Auth: 24 kw.  
FORD BAY ch. 13 27 watts Sat. CBKAT Uranium City  
FOND DU LAC ch. 10 402 w. Sat. "  
NORQUAY CIOO-TV-2 Pres: 3.9 kw. Auth: 7.8 kw.  
LETHBRIDGE, ALTA CBXFT-3 ch. 23 620 watts Sat. CBXFT Edmonton  
LETHBRIDGE CBRT-6 ch. 10 123 kw. Sat. CBRT Calgary  
PINCHER CREEK CBRT9 ch. 15 10 watts xmtr power Sat. CBRT-6 Lethbridge  
BELLEVUE ch. 57 10 w. " "  
COLEMAN CBRT-11 ch. 17 10 w. " "  
ETZIKOM ch. 12 27 kw. ERP Sat. CHAT Medicine Hat (c/o CBC)  
TRAIL, BC CKTN-TV ch. 8 4.4 kw. satellite in Castlegar ch. 5 CKTN-TV-1  
PORT HARDY ch. 6 29.2 watts Sat. CBUT Vancouver  
WOKAS LAKE ch. 60 10 watts xmtr Sat. CBUT-9  
WOSS ch. 12 155 watts Sat. CBUT  
CAMPBELL RIVER CBUT-9 ch. 82 Pres: 5 w. xmtr Auth: 20 w. xmtr

## APPLICATIONS

EDMUNDSTON, NB ch. 5 2 kw. Sat. OFCM Quebec (TVA)  
TROIS RIVIERES, PQ ch. 16 11.6 kw. Sat. CBMT Montreal  
MATANE, PQ CBGAT Pres: ch. 9 15.3 kw @ Mt. Logan Prop: ch. 6 3.2 kw @ St Adolme  
MATANE CBGAT-6 ch. 6 422 w. To discontinue operation  
STE ANNE DES MONTS ch. 8 45 kw. Sat. CBGAT Matane  
MONT LOUIS EN HAUT ch. 19 3.35 kw. Sat. "  
GRAND VALLEE CBGAT-3 Pres: ch. 11, 5 watts, 200 ft. Prop: ch. 6, 587 w., 796 ft.  
CAUSAPSCAL CBGAT-5 Pres: ch. 6 5 watts Prop: ch. 9 11.3 w.  
MURDOCHVILLE CBGAT-2 Pres: ch. 6 5 watts 70ft. Prop: ch. 10 1.6 kw., 1276 ft.  
MONT OLMONT CBGAT-1 Pres: ch. 11 343 w. Prop: ch. 13 708 w.  
BAIE COMEAU ch. 28 3.5 kw. Sat. CBMT Montreal  
BAIE COMEAU ch. 7 1590 watts ERP Sat. CBC FR  
RIMOUSKI ch. 11 142 kw. Sat. OFCM-TV Quebec (TVA) & local studio  
SEPT ILES ch. 11 3.8 kw. Sat. ch. 11 Rimoouski (TVA)  
RIVIERE DU LOUP ch. 9 49 kw. Sat. OFCM Quebec (TVA)  
SIOGX LOCKOUT, ONT CBNDT-1 ch. 12 Pres: 5 watts Prop: 32 kw. new site  
DRYDEN ch. 6 10 kw. Sat. CBWFT Winnipeg  
KENORA ch. 2 3.8 kw. Sat. "  
VERMILION BAY ch. 74 10 watts Sat. "  
SASKATOON, SASK ch. 13 132 kw. Sat. "  
PRINCE ALBERT ch. 9 27 kw. Sat. "  
ESTERHAZY ch. 25 10 kw. owned by CBC AS Sat. CKOS-TV Yorkton  
MONTREAL LAKE ch. 11 163 watts Sat. CBKST Saskatoon  
RED DEER, ALTA ch. 31 2370 watts Sat. CBXFT Edmonton

(continued on page 34)



# European FM Changes

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Data based on a line-by-line, page-by-page comparison of the 1975 and 1976 World Radio Television Handbooks. This compiler has an index file of World FM listed in WRTH arranged on a frequency basis. If sufficient interest is expressed, headquarters says that it will consider publishing it. \* stereo.

|          | NEW STATIONS  |                                       |                          |            |
|----------|---------------|---------------------------------------|--------------------------|------------|
| Bulgaria | 71.66 mhz     | Botev Top                             | Net 3                    |            |
|          | 70.22         | St. Zagora                            | Net 3                    |            |
| Denmark  | *88.4         | Vejrholm                              | 10kw Net 1               |            |
|          | *90.0         | Veje                                  | low Net 3                |            |
|          | *92.0         | Hobro                                 | low Net 3                |            |
|          | *93.3         | Alborg                                | 40kw Net 1               |            |
|          | *94.0         | Kolding                               | low Net 2                |            |
|          | *94.7         | Veje                                  | low Net 1                |            |
|          | *96.1         | Vejrholm                              | 10kw Net 3               |            |
|          | *96.7         | Hobro                                 | low Net 2                |            |
|          | *102.1        | Veje                                  | low Net 2                |            |
|          | Finland       | 90.3                                  | Espoo                    | 10kw Pgm 4 |
| 94.0     |               | Pietarsaari                           | 10k Pg 0                 |            |
| Germany  | 90.9          | Wurzberg                              | 5kw BR I                 |            |
|          | 94.1          | Tergenseer Tal                        | 1kw BR I                 |            |
|          | 95.0          | Hohe Linie                            | 25k BR I                 |            |
|          | 88.0          | Ochsenkopf/Fiechtelgeb                | 25k BR II                |            |
|          | 97.6          | Wurzberg                              | 5kw BR III               |            |
|          | 99.6          | Hohe Linie                            | 25k BR III               |            |
|          | 89.75         | Wurzberg                              | 1kw HR III               |            |
|          | 99.7          | Brandenkopf                           | 1kw SWF 3                |            |
|          | 97.5          | Potsberg                              | 20kw SWF 3               |            |
|          | 93.0          | Brunswick                             | BFBS                     |            |
|          | 95.4          | Herford                               | BFBS                     |            |
|          | 99.3          | Homeln                                | BFBS                     |            |
|          | Germany, East | 89.3                                  | Messewelle-Radio         | DDR        |
|          |               | 96.7                                  | Chatam--R.Medway/BBC     |            |
|          | Great Britain | private commercial stns:              |                          |            |
|          |               | 97.2                                  | Beacon R., Wolverhampton | 1 kw       |
|          |               | 96.2                                  | R.Trent, Nottingham      | 300w       |
|          | 96.0          | Downtown Radio, Newtonards, N.Ireland | 1k                       |            |
|          | 97.0          | Metro Radio, Newcastle-up on-Tyne     | 5kw                      |            |
|          | 96.0          | Plymouth Sound, Plymouth              | 1 kw                     |            |
|          | 95.0          | Radio Tees, Stockton-on-Tees          | 2 kw                     |            |
|          | 95.0          | Radio Victory, Portsmouth             | 200w                     |            |
|          | 97.1          | Radio Orwell, Ipswich                 | 1 kw                     |            |
|          | 96.0          | Radio Perrine, Bradford               | 1/2 kw                   |            |
|          | 97.0          | Radio Kennet, London                  | 300 w                    |            |
|          | 95.9          | Radio Hallam, Rotherham               | 50 w                     |            |
|          | *96.8         | Radio Forth, Edinburgh                | 1/2 kw                   |            |
| Hungary  | 68.36         | Nagykanizsa                           | 10k Net 3                |            |
|          | 69.98         | Nagykanizsa                           | 10k Net 2                |            |
|          | 71.03         | Nagykanizsa                           | 10k Net 1                |            |
|          | 66.62         | Budapest                              | 3k Net 1                 |            |
|          | 71.81         | Pecs                                  | 10k Net 2                |            |

|            |        |                      |               |
|------------|--------|----------------------|---------------|
| Norway     | 89.05  | Halden               | 30kw          |
| Poland     | 66.23  | Czestochowa          | 10k N 3       |
|            | 66.47  | Siedlce              | 25k N 3       |
|            | 68.03  | Siedlce              | 25k N 1       |
|            | 70.22  | Siedlce              | 25k N 2       |
|            | 67.46  | Rzeszow              | 7k N 1        |
|            | 68.24  | Zgorzelec            | 38k N 2       |
|            | 68.60  | Sowati               | 30k N 2       |
|            | 71.12  | Sowati               | 30k N 1       |
|            | 70.82  | Olsztyn              | 76k N 1       |
|            | 71.15  | Kielce               | 62k N 1       |
| Romania    | 69.11  | Baia Mare            | 6k I          |
|            | 69.35  | Sibiu                | 6k I          |
|            | 69.65  | Timisoara            | 6k I          |
|            | 71.72  | Arad                 | 6k I          |
| Spain      | 95.7   | Radio Algeciras      |               |
|            | 95.1   | Radio Juventud Cadiz |               |
|            | 88.2   | Radio Leon           |               |
|            | 89.1   | Radio Pontevedra     |               |
|            | 92.4   | Radio Lerida         |               |
|            | 90.9   | Radio Valladolid     |               |
|            | 87.9   | La Voz de Leon       |               |
|            | 92.5   | La Voz de Alava      |               |
|            | 3 new  | low power relays     |               |
|            | Sweden | 87.7                 | Hum           |
| 91.7       |        | Velez                | 3kw (Net 2/3) |
| Yugoslavia | 97.1   | Vlasic               | 10k (Net 2/3) |
|            | 107.2  | Beograd/Studio B     | 50w           |

## Deleted Stations

|            |        |                       |
|------------|--------|-----------------------|
| Germany    | 97.5   | Totzberg              |
| Norway     | *99.95 | Oslo (experimental)   |
| Portugal   | 95.7   | R. Estudantil, Lisboa |
| Spain      | 97.9   | La Voz de Leon        |
|            | 89.1   | Radio Popular Aviles  |
| Yugoslavia | 99.9   | Titograd II           |

## Frequency Changes

|               |                  |                   |
|---------------|------------------|-------------------|
| Austria       | Gaisberg (I)     | was 90.8 to 90.85 |
| Bulgaria      | Sofia            | " 67.28 to 67.23  |
| Finland       | Vuoto            | " 94.9 to 94.7    |
| Germany       | Bremerhaven I    | " 89.5 to 89.3    |
| Germany, East | Berlin (Stms)    | " 97.65 to 97.6   |
| Holland       | Hulsberg (II IV) | " 98.75 to 98.7   |
|               | Smilde (III)     | " 91.75 to 91.8   |
|               | Hoogezand (III)  | " 97.45 to 97.5   |
| Italy         | M. Bergua (II)   | " 94.2 to 94.6    |
| Spain         | Radio Reus       | " 89.7 to 97.1    |
|               | R J Huelva       | " 95.0 to 89.4    |
|               | Radio Huesca     | " 93.3 to 96.9    |
|               | Radio Coruna     | " 89.7 to 89.4    |
|               | R Manresa        | " 95.1 to 93.2    |
|               | R Vitoria        | " 92.5 to 96.7    |
|               | LV Extremadura   | " 95.1 to 85.1    |
|               | LV Castellon     | " 89.4 to 88.9    |
|               | LV Navarra       | " 95.7 to 88.8    |
|               | RJ La Rioja      | " 88.3 to 88.8    |
|               | R Asturias       | " 90.3 to 97.5    |
|               | R Alicante       | " 88.5 to 90.9    |

Frequency changes -- cont.

|             |     |      |    |      |
|-------------|-----|------|----|------|
| R Gerona    | was | 90.0 | to | 88.2 |
| R Vigo      | "   | 99.2 | to | 99.4 |
| R Toledo    | "   | 90.9 | to | 97.2 |
| R Jaen      | "   | 93.3 | to | 96.9 |
| RJ Espana,  |     |      |    |      |
| Madrid      | "   | 89.7 | to | 89.6 |
| RJ Alamansa | "   | 91.8 | to | 88.8 |
| RJ Sabadell | "   | 89.1 | to | 89.4 |

Power Increases

|               |                 |       |       |    |
|---------------|-----------------|-------|-------|----|
| Austria       | Kahlenberg      | 97.9  | 100   | kw |
|               | Kahlenberg      | 99.9  | 100   | kw |
|               | Kahlenberg      | 91.9  | 100   | kw |
| Finland       | Koli            | 90.1  | 30    | kw |
|               | Vuotoso         | 90.1  | 3     | kw |
|               | Ruka            | 90.7  | 2     | kw |
|               | Antari(A)       | 91.9  | 3     | kw |
|               | Ruka            | 92.8  | 2     | kw |
|               | Koli            | 93.4  | 30    | kw |
| Germany       | Togernseer Tal  | 87.7  | 1/2   | kw |
|               | Bremerhaven III | 95.3  | 1     | kw |
|               | Bad Marienberg  | 89.8  | 25    | kw |
|               | Bad Marienberg  | 95.4  | 25    | kw |
|               | Bad Marienberg  | 93.1  | 25    | kw |
|               | Bonn            | 90.7  | 3 1/2 | kw |
| Great Britain | Birmingham      |       |       |    |
|               | EMRB Radio      | 94.8  | 2     | kw |
| Yugoslavia    | Crni Vrh I      | 89.7  | 40    | kw |
|               | Crni Vrh II III | 99.3  | 40    | kw |
|               | Pohorje II III  | 96.9  | 7 1/2 | kw |
|               | Nanos           | 101.1 | 3     | kw |

In late 1976, Broadcasting magazine (USA) reported that Sweden is buying 210 Collins Stereo FM exciters to change all three FM networks to complete stereo operations. The 1977 WRTH reports that Italy is running two experimental stereo stations in Rome and Turino.

New in Stereo

|               |                          |           |
|---------------|--------------------------|-----------|
| Denmark       | All Danish FM are stereo |           |
| Finland       | Pihlpudas                | *86.6     |
|               | Tammela                  | *89.2     |
|               | Jyvaskyla                | *89.9     |
|               | Kuopio                   | *91.6     |
|               | Koli                     | *93.4     |
|               | Alitari                  | *94.6     |
|               | Oulu                     | *97.3     |
| France        | Antisanti                | *94.8     |
| Great Britain | Talconeston              | *89.7 BBC |
|               | Talconeston              | *91.9 BBC |
|               | N.Hessary Tr             | *90.3 BBC |
|               | Redruth                  | *91.9 BBC |
|               | Pontop Pike              | *88.5 BBC |
|               | Pontop Pike              | *90.7 BBC |
|               | Pontop Pike              | *92.9 BBC |
|               | Sandale                  | *88.3 BBC |
|               | Sandale                  | *90.5 BBC |
|               | Sandale                  | *92.7 BBC |
|               | Ayr                      | *88.7 BBC |
|               | Ayr                      | *90.9 BBC |
|               | Ayr                      | *93.1 BBC |
|               | Milburn Muir             | *88.8 BBC |
|               | Milburn Muir             | *91.0 BBC |
|               | Milburn Muir             | *93.2 BBC |
|               | Rosneath                 | *89.2 BBC |
|               | Rosneath                 | *91.4 BBC |
|               | Rosneath                 | *93.6 BBC |
|               | Sandale, Sct.            | *88.1 BBC |
|               | Sandale, Sct.            | *90.3 BBC |
|               | Sandale, Sct.            | *92.5 BBC |
|               | Llandrindod Wells        |           |
|               | Lland. Wells             | *89.1 BBC |
|               | Lland. Wells             | *91.3 BBC |
|               | Lland. Wells             | *93.5 BBC |
|               | Divis                    | *90.1 BBC |
|               | Divis                    | *92.3 BBC |
|               | Divis                    | *94.5 BBC |
| Portugal      | All Radio Clube do       |           |
|               | Portugal FM are stereo.  |           |

FEEDBACK (continued from page 5)

MAY 1977

A California member writes in defense of the World Radio TV Handbook:

The WRTVH may not be of much use to the TV DXer, but a vast majority of WTFDAers are also into BCB and SWBC and the WRTVH is an indispensable tool for such DXers. Though its accuracy and typography are marginal and its U.S. distribution system is abysmally lacking, it is still the best source of information, under one cover, for a majority of DXers. At the discount price of less than 2¢ per page, it sure beats a lot of publications of so-called non-profit DX clubs, both in terms of price and accuracy.

Mike Dorner of Metairie LA comments that the WRTVH actually provides excellent coverage of European and Asian FM, "contrary to what some may believe!" Mike's listing of European FM changes, gleaned from the latest WRTVH, appears in this edition of the Digest.

Al, your editor recently invested in the 1977 WRTVH, and doesn't see his \$8.45 as having been poorly spent, even though I am not into AM or SW DX. The WRTVH does lack in its USA TV-FM listings, but it is a useful reference for such stations overseas, and as such seems worth the price. The Handbook has been around for more than 30 years, and as such has established its quality; truly, it isn't another of the yearly "must have" books. I don't anticipate buying another WRTVH edition, but I am glad to have the current issue on my shelves. Although it is next to worthless for domestic TV-FM DXing, I have the notion that eventually it will prove useful.

Next month, the debate over Winegard's AC-4990 is scheduled to resume, with comments on hand from several prominent DXers. Yours are always welcomed!

*Clarke W. Ingram*

# FM DX NORTH

Fred Nordquist  
7945 Boxford Road  
Clay, NY 13041  
Deadline: the 10th

May 1977

For FM DXers in Canada, the following northwestern states: WA OR ID WY MT ND SD NE WI IA, & all states east of the Mississippi River and north of the Mason-Dixon Line. Report your DX! The 80° wx up here in the North should kick off the tropo conditions, and the Es season is fast approaching us. So be alert for the openings. Es was noted by reporters on 12/21, 1/26 & 1/31. Tropo was noted on 3/27 in the upper midwest. Not much else was noteworthy from the 6 reports that follows:

Rod O'Connor - P.O. Box 72 - SW Harbor, ME 04679

Eqt: Panasonic RF888 AM/FM/PSB w/built-in whip antenna.

12/21 1530 YINQ 106.5 TN Chattanooga, (1130) 1551 WHCE 103.9 SC Orangeburg, AM-ID (1130)  
Es 1537 WCCV 97.5 VA Charlottesville, (700) 1630 WRFL 102.9 GA Columbus, o/lcl WGAN  
1549 WQSM 98.1 NC Fayetteville, "Q-98", (870) 1632 WPLO 103.3 GA Atlanta, "P-103", (1250)  
1550 WFOX 97.1 GA Gainesville, o/lcl WBGW 1700 Es faded out

It was strange getting this Es, as most of the Es I have gotten was during a warm summer day, not when it was snowing! (This report was buried under a 6 foot snow drift for over 2 months -- I found it while policing up my front yard in March! --fjn)

Roger Winsor - 1030 S. Colorado - Hobart, IN 46383

2/17 WGLT 89.1 IN Normal, non-stop c

WDSO 89.1 (location? - fjn) RS, m in AM, r for school kids. lcl talent w/mike hum.  
1/10 0000 WOTE 91.3 ( " " ) s/off. Hrd earlier in PM mixing w/WCSG.

WLST 95.1 WI Marinette, FM-95 nonIDs plus lcl ads, \$, Mixing w/WLIP.

Totals: 708. My antenna system is terrible, my RX needs work, and I have several joints in my lead-in (sounds like mine-fjn) yet DX floats in from time to time. My job takes me away from the house a lot, so I don't have a lot of time to listen. Just waiting for this year's skip season. 73, Roger.

Fred McCormack - Des Lacs, ND 58733

3/27 Tr 1613 KCLD 104.7 MN St. Cloud, r, (400) 3/28 Tr 0018 KELO 92.5 SD Sioux Falls, (395)  
1615 KMNT 100.7 MN Alexandria, k, (330) 0856 CHMM 97.5 MB Winnipeg, ex-CJOB/  
1628 KMAV 101.7 ND Mayville, k, (205) (New underlined) (230)

Weak scatter type tropo was first heard in many months, and it was welcome. 73, Fred.

Steve West - 432 Kermore Road - Havertown, PA 19083

Eqt: Heath AR-15, Stereoprobe 9 antenna 35° AGL, Alliance rotor - horiz/vert use, CDR AR-10 rotor for azimuth rotation.

11/4 MS 0030 KAYL 101.5 IA Storm Lake (1050) 4/1 Tr 2200 WIYY 97.9 MD Baltimore (100)  
12/6 Tr 1700 WBEZ 95.9 MD Baltimore (100) 4/3 2300 WPFW 89.3 DC Washington (130)  
12 23 Tr 0000 WOOK 100.3 DC Washington (130) 4/4 GW 2230 WDNR 89.5 PA Chester (10)  
1/26 Es 1700 WRYO 98.5 FL Crystal River (775) 4/6 Tr 1830 WCLA 90.5 ?? not in Atlas, c

Michael Hogan - 9224 Cottage Grove Ave. - Highland, IN 46322

2/11 Tr 1658 WILL 90.9 IL Urbana (125) 2/23 Tr 1815 WHLA 90.3 WI Lacrosse (295)  
2/22 GW 2003 WMM 92.7 IL Arlington Hgts 3/14 Tr 1305 WGTD 91.1 WI Kenosha (72)  
Log total: 77. Educational bands: 25. 73 - Michael.

Paul D. Traska - 64 Weaver Ave. - Buffalo, NY 14206

Total: 89. States: 8 + DC. 88-91 MHz: 37. My 1st Es on FM on 1/31 was a thrill.

1/3 Tr 1700 WUHY 90.9 PA Philadelphia 3/11 Tr 2204 WHYP 100.9 PA Northeast  
1/6 1350 WDTR 90.9 MI Detroit 3/12 1100 WDTR 90.9 MI Detroit  
1/10 1730 WETA 90.9 DC Washington 1600 WKTL 90.7 OH Struthers  
1/29 1700 WOSU 89.7 OH Columbus 3/13 1700 WRTI 90.1 PA Philadelphia  
1/31 Es 1600 KPFT 90.1 TX Houston 1730 WVIA 89.9 PA Scranton  
2/16 Tr 1304 WVWC 88.9 WV Buckhannon 3/15 0200 WVKO 94.7 OH Columbus  
1920 WYSU 88.5 OH Youngstown 0230 WPEZ 94.5 PA Pittsburgh  
2/17 GW 1424 WRUR 88.5 NY Rochester 1700 CFNT 101.5 ON Peterborough, (ex-CHEX)  
2/19 Tr 1620 WRCU 90.1 NY Hamilton 3/18 1200 WAMC 90.3 NY Albany  
3/4 Tr 1525 WVWR 89.1 VA Roanoke 3/19 2130 WDBA 107.3 PA DuBois  
1830 WGTB 90.1 DC Washington 3/21 1345 WOSU 89.7 OH Columbus  
3/10 1700 WVWR 89.1 VA Roanoke 3/23 2035 WRLX 106.9 NY Auburn  
1730 WYSU 88.5 OH Youngstown 3/25 0045 WZPR 100.3 PA Meadville, WMGW-ID  
1700 WVWC 88.9 WV Buckhannon 3/27 0208 CFRC 91.9 ON Kingston  
4/6 Au 1700 no IDs





# Southern F.M.DX

DAVE COX  
2007-E Brandywine Ct.  
Birmingham AL 35216

May 1977

Deadlines: the 10th

SERVING FM DXers OF THE SOUTHEAST, SOUTHWEST, AND MEXICO

This month marks the beginning of the new, expanded coverage area for this column, as announced in previous issues of the VUD. Many of the nation's top FM DXers reside in the areas added to Southern FM DX and, consequently, will be reporting their DXing results in this column in addition to those crack DXers of the Southeast who have always supported Southern FM DX. As editor, I look forward to the opportunity of working with the FM DXers of the Southwest, Southeast, and Mexico. Here again is the list of states reporting to this column: AL, AR, AZ, CA, CO, DE, FL, GA, KS, KY, LA, MD, MO, MS, NC, NM, NV, OK, SC, TN, TX, UT, VA, & WV.

FM DXing during March was very poor according to our reporters. In fact, the only DX heard in March was a few short range tropo openings. One DXer does report, however, a February Es opening where the MUF went to at least 10h.3 mHz.

Ted Fleischaker, 3023 Tremont Drive, Louisville KY 40205 EST  
Equipment: Technics ST-7600 and Winegard SC-650 at 25 feet

Am late with this one, but since I just rejoined after a couple of years absence from the WTPDA, figured I'd best get it in somewhere. Best winter Es opening heard in many years here on 2-7-77. New loggings were:

1945 KMWJ 103.3 TX Midland 2001 XHTO 10h.3 Ciudad Juarez, Mexico  
1959 KNFM 92.3 TX Midland 2030 KITY 92.9 TX San Antonio

Also heard oldies such as KASE 100.7 in Austin TX, which I got a good \$ tape of for over ten minutes. Only other new logging was 3/1 when heard WSCF 89.9 Madisonville KY which is a new station on air from a Christian School there.

Just bought the new ST-7600 and am waiting for the DX season to try out the selectivity feature; it seems to help a lot in this crowded station area of semi-locals, so have high hopes. Also, just replaced antenna downlead after a hard winter which left me with cracked cable and shorts, so it's good to be able to go 360 again!

DX related side hobby is swapping of \$ FM tapes — if interested, drop me a line at address above! 73, Ted (Many members will remember Ted is a former editor of Southern FM DX. Thanks for reporting, Ted, and welcome back! .. dsc)

Doug Everitt, 1710 W Maine, Enid OK 73701 CST  
Equipment: Kenwood KT-8007 tuner and 10 element FM yagi at 35 feet

Well, I guess the latest shuffle of zones puts me in your reporting area, so I thought I'd drop a note. FM DX conditions have been generally lousy for the past month, with only a few short-range intense type tropo openings, which produced scores of dull logs, which I won't bore anyone with right now. Es has yet to show for its summer season at this writing (early April), but I'm hoping for an early appearance this year. The FM yagi will probably remain at 35 feet until several other DX related projects are completed. I hope to have a more substantial report for SFM next month, but this will have to do for now. ...Good DX to all... (Thanks for the report, Doug, and welcome to SFM! ... dsc)

Hank Holbrook, 7211 Chestnut Street, Chevy Chase MD 20015 EST  
DXing from our cottage at Fair Haven MD overlooking the Herring and Chesapeake Bays, about 15 miles below Annapolis MD.

Several trips to the cottage in March and we managed to turn up two new ones for our log:  
3/10 2200-2328 WPFW 89.3 DC Washington r;(35mi) Friends Program, mx, & 45 minutes of news  
50kw, Pacifica Foundation. Present schedule 0800 to 1700  
but will go to 2h hours when technical problems cleared up

3/19 0340-0412 WWWW 97.5 VA Charlottesville r;(120) ex-WCVV 50kw  
Veries now at 797 stations in 35 states and from Manitoba, Ontario, Quebec, and Nova Scotia plus Bermuda, Cuba and Puerto Rico.  
73, Hank

To add further to the confusion resulting from the changes in the reporting areas, a change of address is in the works for your editor. We will remain in the Birmingham area, but my wife, Ginny, and I have decided the time has come to move on to a bigger and better apartment. Unfortunately, our new address is not known definitely as of this writing, but it should be known in time to be published in the June VUD. The best policy, I believe, will be to mail reports to the old address, given above, until you know my new address. Even reports mailed to our old address after we move (June 1) should be delayed only one or two days by forwarding (provided the post office cooperates, hi!). So, report, regardless of the address you use. Next month, we will be able to give you our new address.

Until next month, Best of DX to All

73, Dave

EDITOR'S NOTE: The running series on understanding polarization is again held this month due to lack of time to transcribe the convention lecture tape, and a number of negative comments received at this desk (see FEEDBACK this issue). Your comments on whether or not the series should continue are welcome. --CWI

## BALUNS

Many a DXer has seen baluns priced from \$1 all the way to \$10 or \$12, and has asked himself what the difference is, if any. Just what you get for your money when buying baluns is indeed a good question. You might get less of a balun than you need for your installation; or you might pay for features you don't need. But first, let's look at that seemingly simple balun.

### What It Does

For maximum transfer of power from antenna to receiver, impedances must be matched, regardless of the "signal conditioning devices" in-between (traps, boosters, splitters, etc.). If impedances are mismatched, the receiver never "sees" all the power it should. Power loss increases (but not proportionally) as mismatch increases.

A balun makes devices of dissimilar impedance work correctly. For TV and FM all receiving gear is designed for either 75 ohm or 300 ohm impedance. Thus the word "balun," since it deals with 300 ohm BALanced and 75 ohm UNbalanced impedances, was adopted.

Since only two impedances are involved, balun design is simple. It just converts, or changes, impedances by a factor of 4 to 1, or 1 to 4. For example, if 75 ohm coax is used with a 300 ohm antenna and TV, the 300 ohm side of the balun is connected to the antenna and the 75 ohm side connected to the coax. The 4 to 1 conversion "down" in the balun means that a match is obtained between antenna and coax. At the set, another balun is connected, and the balun converts "up" to 300 ohm to match the set. While the conversion within a balun does change the voltage, it does not change the power.

Note that a balun cannot correct, or compensate, for impedances of devices connected to it. It just converts what it "sees." For example, if antenna impedance in the previous example was actually 200 ohms (instead of 300), the 4 to 1 conversion "down" means you would wind up with a 500 (200/4) ohm load connected to 75 ohm coax.

### What It Is

Briefly, all baluns are housed in simple enclosures, as little as  $\frac{1}{2}$ " on a side to as large as 6". The 300 ohm connection may be (1) short 300 ohm flat line, or (2) two parallel wires separated by spacers (like 300 ohm open T-line), or (3) round or rectangular solid rods, separated for 300-ohm impedance. Some 300 ohm lines have spade lugs. Some outdoor models have toothed washers and terminal screws. You slip your own 300 ohm line beneath the washers and then tighten. The 75 ohm side consists of a connector. Usually, hardware is included to attach to coax for mating with the 75 ohm connector. Finally, some sort of mounting harness might be included. The "guts" inside a balun will be discussed later.

### Factors When Buying

There are five basic factors to consider when buying a balun: (1) impedance transfer for frequency desired, (2) shielding, (3) enclosure, (4) 75 ohm connector, (5) goodies.

(1) Several methods for achieving the 4 to 1 impedance conversion have been used in balun design. Apparently--per discussion with Bob Cooper--the method

used for all modern baluns is torroidal. (A torroid is a coil, or group of coils, wound on a core.) With this method of manufacture, it apparently is quite hard to make a balun that doesn't maintain a 4 to 1 impedance change over a specified range. (Some DXers have commented to me that loss was quite high with baluns they used. I can't comment on this since I don't know (A) design of balun, (B) if they were used at correct frequency, or (3) if moisture had contributed to loss, especially if "indoor" type was used outdoors.)

It's thought that the rise of CATV equipment may have "forced" improvement of all baluns. In CATV lingo, any device has a "flat" response if it maintains a characteristic within  $\pm \frac{1}{2}$  dB. With baluns, flat response means it maintains a 4 to 1 conversion within  $\pm \frac{1}{2}$  dB over a specified frequency range. One-half dB means about 6 percent power loss. Thus, with modern baluns, a true 300 ohm device would be converted to 75 ohm  $\pm$  6%, or about 70.5 to 79.5 ohms. ( $\frac{1}{2}$  dB is indeed little, when you consider that the impedance of all-channel VHF antennas, especially yagi types, may vary from 200 to 400 ohms, even good ones!) The so-called "conversion loss," therefore, is quite tolerable.

Note that term "specified frequency range." Since impedance involves frequency (as opposed to purely resistive devices), it follows that a balun can keep the 4 to 1 conversion only over a certain range. As frequency increases, the effectiveness of conversion is reduced. With the balun, stray capacity, etc. contributes to the loss at frequencies above the designed frequency.

However, all TV baluns are designed for two specific ranges: up to channel 13, and up to channel 83. It's within these specified ranges that conversion loss should be maintained. Most 2-13 baluns usually maintain impedance within  $\pm \frac{1}{2}$  dB, while 2-83 models usually maintain impedance within  $\pm \frac{1}{2}$  dB from ch. 2-13, and within  $\pm 1$  dB (about 12 percent) from ch. 14-83.

Obviously, a 2-13 only balun used for UHF could mean disaster. Unfortunately, most catalogs specify a balun "for TV." That's a lot of help!

(2) Shielding usually consists of aluminum foil inside that should surround the balun. The torroid can pick up quite a bit of RF signal itself, especially at UHF, and especially if mounted at antenna in strong signal areas. But don't think you're safe with an unshielded balun at the set. It too can pick up a lot of RF in strong signal areas or can pick up radiation from TV oscillator to IF. Your best bet, I imagine, is to buy a shielded type whenever the chance of RF pickup is likely. If saving is significant, you could use the unshielded type near quality FM receivers. But if cost difference is small, don't take a chance: buy the shielded type.

(3) The type of enclosure usually indicates whether it can be used indoors or outdoors. Obviously, outdoor types must be weatherproof. However, I have "opened" some outdoor baluns and found mildew, moisture, etc. The better outdoor types seem to be totally enclosed (possibly with protective rubber boots) some may even be encapsulated. The poorer ones have plaster cases with snap-connected insulators holding the guts. These types, obviously, aren't very moisture-proof. The fact that they can be opened easily by prying at the corners indicates inadequate moisture seal.

(4) Coax connectors now are usually the F-fitting type, but some use other types. Quite honestly, I don't know if one connector is any better than the others; maybe one is easier to work with, but I don't know. Some DXers have reported poor luck with assembling coax connectors. Personally, I made many coax patch cables years ago, for audio and RF, and know from experience that you can make more bad coax connections than good ones if (1) you don't have precise instructions, dimensions, etc. for stripping coax and fitting into connectors, or (2) you aren't careful. If anyone can comment on the ease of assembly or better performance with a certain type of connector, speak up!

(5) Goodies cover such things as special mounting hardware, possibly for convenience or strength--or possibly a more convenient 300-ohm side connector arrangement as described earlier. Little except convenience would be gained with this arrangement.

Again, like all products, get detailed specifications from the manufacturer and compare costs. Buying from electronic catalog data only isn't the answer.



# EASTERN TV-DX

Bill Thompson  
1907 Seneca Street  
Buffalo, NY 14210

May 1977

Deadline: 10th

After mid-March, a fair amount of tropo finally began to show up in Midwestern and Northeastern areas. In some places, it seemed as if Spring wasn't going to arrive this year—but it did, and many areas on the Eastern Seaboard had record temperatures by early April. Unfortunately, some violent weather took place in the Midwest also. There was a bit of Es activity in early April, and your editor noted a strong Aurora on April 6 that showed up even on highband VHF; perhaps we'll have some auroral DX to report next time. The skip season is here!

William R. Hepburn 5659 Highland Avenue Niagara Falls, Ontario L2G 4X2 (EST)  
March 16 Tr 0728 WJW-8 OH 165 27 Tr 0802 WRBD-50 MI 205  
 10 Tr 1250 WTVN-6 OH 295 27 0712 WTVH-5 NY 150 0804 WNBO-45 OH 150  
 11 0657 WTVN-6 OH 295 WEWS-5 OH 165 0806 WNPE-16 NY  
 15 0727 WTVH-5 NY 150 0719 CBLFT-48 OH 160 Watertown 170  
 1027 CKGN-2-2 OH 155 0722 CIGA-18-18 OH 110 CKGN-2-2 u/WGR  
 "under WGR" 0729 WEYI-25 MI 245 2005 unID-43 "test-  
 2110 Rochester VHFfs 0756 WKOH-20 MI ing from N.R."  
 VAFI5555 Detroit 205 CBLFT-48 OH 160  
 16 0711 WTVH-5 NY 150 0800 WYTV-33 OH 155 WFTV-33 OH 155  
 0714 WEWS-5 OH 165 WUHQ-41 MI WFMJ-21 OH 155  
 WTVN-6 OH 295 Battle Creek 315 2015 unID-15 "test"

"I have just recently joined WTFDA. I am 14 years old and have been interested in TV DX since I was 5. I began DXing regularly since last July 25. On the 27th of that month, I received my first Es (to WRAR-3 Pensacola FL). That encouraged me greatly to continue DXing. As of March 31, my log stands at 74 (46 VHF, 28 UHF). I use a 48 element combination VHF-UHF antenna with a rotor mounted on a rooftop mast. We live on the highest hill in the city (680') which adds a few feet to the antenna height. There has been no good tropo so far, although 5 new stations were logged on the 27th." (Welcome to WTFDA -bt)

Dr. Joel Rosenberg Apt. 909 40 Godstone Road Willowdale, Ontario M2J 3G7  
From North Miami Beach, Florida: "Feb. 13/77 to Feb. 20—VHF (hotel antenna):  
Miami, Palm Beach locals. UHF (with bare terminals): received all Miami-Pt.  
Lauderdale stations including satellites of WCIX-6 on 33, 61, 64, 69.  
Feb. 16 Tr 0015 WEVU-26 Naples, 110 mi. (no antenna!!)."

Randall B. Clark Rt. 5 Dutch Ridge Parkersburg, West Virginia 26101 (EST)  
March 25 Tr to PSB wild... 28 Es 1707 "Low level Es  
 14 Tr 1800 "Fantastic open- ing...all Ohio in for very  
 to stns in except 26 1200 WTOL-11 OH short time...  
 WDHO-24...four 0730 "Same cx as yes- earlier I noted  
 15 0200 stn pileup on 7" on every VHF wild Es on CB"  
 0759 WLKX-18 KY channel 2 - 13" 31 Tr 1900 "All VHF chs  
 WKRP-22 OH unID-18 CCI April have CCI etc."  
 WWVU-24 WV WKRP-22 OH 1 Tr 0800 "continuing...  
 WVIZ-25 OH T WJBT-24 PA to most stations  
 W31AA-31 OH T W31AA-31 OH T 0950 in from Ohio"  
 WOSU-34 OH WYTV-33 OH 2 Es 1415 "Increasing Au  
 WKMR-38 KY to WOSU-34 OH Es type activity  
 WPBO-42 OH WVIZ-25 OH to w/WFMY-2 &  
 WCFT-48 OH T "w/CCI!!! Sure other CCI. Vy  
 1955 20 CCI on 44 ain't Ashland! 1550 intense @ 1435"  
 21 0000 CCI on WHIZ-18 Tr 1700 "Same type of  
 WKCR-22 OH CBLFT?" 2355 Tr cx as 3-26"  
 CCI on ch 33 WKMR-38 KY T 3 1755 "As above-vy  
 WKMR-38 KY "w/CCI" to good-excellent  
 WPBO-42 OH WUAB-43 OH to Front weaken-  
 WKYT-27 KY "CCI on 44" 2230 at 2225 EST"  
 22 Es 1040 WTHS-2 FL 1330 WNBO-45 OH 4 Es 1715 WPBT/WTHS-2 FL  
 1159 unID-2 CUBA 1745 "Terrific CCI 1729 KETS-2 AR  
 23 MS 1158 KLEB-3 NE T most chs 2-13" 5 1110 unID-2 "Cuban"  
 25 Tr 0900 "Super Tr oper- 27 0145 "Bands still Log totals: 180  
 ing...VHF high open up to 1130"

"Does anyone have any info on local AM-FM station remote broadcasting pickup feeders...this aspect of VHF DXing has been ignored for quite some time...the type of stuff I've heard over remote freqs would be most unprintable indeed: DJs swearing at one another for failing to ID at proper times, etc. etc.!"

Roy D. Horsley Rt. 10 169 Lakeshore Dr. Gadsden, Alabama 35901 (205)442-2540

January  
26 Es 1810-2040 many unIDs and called KVIA-13 May have missed most of it though. With a bad antenna and cablevision next door I didn't realize the higher channel interference was Es. Rats!"

"This was the same MBSS that Glenn and many of the other DXers received... ch 2 was hampered by a strong WSB-2." Es 1931 KOB-4 NM T  
1830 XHY-3 YUC 2000 KMID-2 TX  
unID-5 PBS

February  
7 Es 1928 KENW-3 NM 2030 KACB-3 TX  
1930 KAVB-6 NM 2100 unIDs 2,3 Spanish  
"I have never seen a skip overtake WERC-6 like this one...I took a wild stab "I was working that night and just happened to turn the store TV on..."

April 6 Es 1830 TV Cubana-4 CUBA "thought it was off"  
1840 Tels-Rebelde-3  
"ID as canal 5 NTV"  
1910 unIDs 2 & 5  
"same sound as 3"  
1930 "S.D. vs CUBA basketball on 3,5"

"I think I have about as many unIDs as IDs. Wish we had more current info on Cuban and Mexican stations. I am 28, married, have 2 boys--Chip and Chad. I am a registered pharmacist working in Rainbow City. Have been DXing 19 years--first skip being WLBZ-2 in 1958. Planning to invest a wad in an antenna system pretty soon. Hope those "twisters" don't come back through here soon. Totals: 145 stations, 77 Es, 5 countries. Good DXing."

William J. Draeb Ellis St. R.R.#2 Kewaunee, Wisconsin 54216 (CST)

"Not much DX to report this month. Just when I thought Spring was here to stay we got blasted with 11 inches of snow and record cold temperatures."

March  
14 Tr 1840 WMUL-33 WV 498 16 Tr 2059 WOSU-34 OH 395 24 Tr 1955 WOBT-16 OH 368  
1902 WJET-24 PA 405 22 2100 WKYT-27 KY 473 25 1838 WOSU-34 OH 395  
WSKB-35 PA 405 1938 KDNL-30 MO 432 2359 WILL-38 IN 348  
WUTV-29 NY 445 1950 WUSI-16 IL 405 26 0000 WUAB-43 OH 340  
1906 Youngstown U's 23 2148 KDNL-30 MO 432  
2111 WQIN-54 PA 405 24 1939 WKYT-27 KY 473  
2118 WOSU-34 OH 395 1955 KDNL-30 MO 432

April 6 Tr 1828 KDNL-30 MO 432

"P.S.--on 4-8-77 I noted WITI-6 & WISN-12 Milwaukee switched networks. Six is now CBS and 12 is ABC. 73s & good DX."

Bob Zent 1835 Fruit Street Huntington, Indiana 46750 (219)356-1670 (BST)

March  
12 Tr 1850 WLEX-18 KY 210 12 Tr 1850 WKLB-46 KY 210 12 Tr 1850 WRMR-38 KY 220  
WKYT-27 KY 210 WTVQ-62 KY 210 WKSQ-29 KY 275  
WKOM-52 KY 1905 WPBO-42 OH 200

"Does anyone know where I might purchase about four F-11 connectors? My dealer can order them but only in large quantities, and I am a bit reluctant to buy a package of 10 or 25."

Marvin Shults R.R.#1 Toulon, Illinois 61483 (CST)

February  
7 Es 1759 KPRC-2 TX 7 Es 1830 XEF-6 NL  
1800 XEPE-2 TAMS Monterrey  
1805 KACB-3 TX Tr 2200 KEMA-41 MO 2045 XEPE-2 TAMS  
1810 "XHFI or XHAB-5" 10 1415 WLUK-11 WI 29 0759 KMTC-27 MO  
1823 KWAB-4 TX 11 0900 WKJG-33 IN KTVJ-16 MO  
Big Spring 0800 KOZK-21 MO

"The program on 2-7 at 1810 on ch 5 was the same dramatic program as was showing on XEPE-2. I have received this ch 2 & 5 combination before but still have not been able to identify the ch 5 component. XEPE-2, XHFI-5(-) and XHAB-5(+) are Net 2 (Canal Dos) stations. That's the primary reason I was asking about the KSD-5 offset. Recently I saw WERZ-2 mentioned on ABC News. Have WERZ-2 and WRBT-33 exchanged affiliations? ABC is red hot. Finally, I wish to thank Bill Draeb for the fine job that he's done as CENTRAL TV-DX editor."

Steve West 432 Kenmore Road Havertown, Pennsylvania 19083 (215)449-1472 (BST)

November  
25 Es 1730 KTEW-2 OK 1150 January  
26 Es 1700 "Cuba-2" 1200 March  
10 Tr 0800 WUNK-25 NC 330  
December  
4 GW 2355 WFMZ-69 PA 50 February  
23 Tr 0800 WVIR-29 VA 220 "unusually strong"  
WSBA-43 PA 100

"Just enough DX this winter to keep my sanity. The spring tropo hasn't gotten here yet, even though it reached the 80's. It's cold again, in the 30's at night, so I'm hoping a warm snap will bring in NC & SC some morning. 73."

# WESTERN TV-DX

Doug Everitt  
1710 W Maine  
Enid OK 73701  
(405) 233-4890  
Deadline: 10th

For TV DXers in all states west of the Mississippi and Canadian provinces Manitoba & west

Well, after a good turnout last month, things seem to have dried up in the Western TV DX zone. Seems to be a feast or famine situation... No more of the long-haul ducting we were hoping for, like Rick Sanford saw in February, but Es seems to be picking up to some degree. On the other hand, I don't think it ever stops in San Antonio...

Pat Dyer, 5315 Silvertip Drive, San Antonio TX 78228 (CST) (07 Mar - 06 Apr)

Equipment: 1971 & 1976 models Penncrest 9-inch b&w sets; Archer V-100 and eight-bay UHF bowtie array at 20 feet with rotor.

|                             |                             |                            |
|-----------------------------|-----------------------------|----------------------------|
| 09 tr 0103 KPLC 7 LA 325    | 15 tr 0900 KARK? 4 AR 515   | 22 Es 1850-2230 YSR 2 E1 8 |
| 10 Es 1958 KTVQ 2 MT 1245   | (2 in until near noon)      | 23 Es 2050 WFMY 2 NC 1175  |
| KOTA 3 SD 1040              | 1740 WBRZ? 2 LA 450         | 2129 WMT 2 IA 945          |
| KDSJ? 5 SD 1065             | 17 tr 1029 KMID 2 TX 275    | 2215 f/outs                |
| KDIX 2 ND 1225              | KOSA 7 TX 280               | 24 Es 1645 KUTV 2 UT 1080  |
| 2025 KKLF? 4 MT 1365        | 1810 WBRZ? 2 LA 450         | 1715 KCPX? 4 UT 1080       |
| 2215 KTVI 2 MO 790          | 18 Es 1845-1910 KDIX 2 ND   | 1730 KSL? 5 UT 1080        |
| 2250 f/outs                 | 2002 KOTA 3 SD 1040         | 1753 KPVI? 6 ID 1195       |
| 11 Es 1640 TGV? 3 Guat 1120 | 2050 KTIWO? 2 WY 1015       | 1759 KBCI 2 ID 1370        |
| 1710 YSR? 2 E1 S 1200       | KOA? 4 CO 810               | 1829 KID 3 ID 1215         |
| 1735 YSU? 4 E1 S 1200       | 2100 KWGN? 2 CO 810         | 29 tr 0815 KPLC? 7 LA 325  |
| 1915 WEDU? 3 FL 985         | tr 2225 XHX? 10 NL 275      | KALB? 5 LA 385             |
| WPBT? 2 FL 1150             | XEFB? 3 NL 275              | 2227 WRBT 33 LA 450        |
| WESH? 2 FL 1055             | 19 Es 2005 KNXT? 2 CA 1190  | WGNO? 26 LA 510            |
| 1945 XHTV? 4 DF 690         | KEYT? 3 CA 1270             | 2345 WLPB 27 LA 450        |
| 2055 f/outs                 | 2025 f/outs                 | 05 Es 1410-20 WTHS? 2 FL   |
| 12 Es 0810 WITWO? 2 IN 935  | 2055-2100 KUTV 2 UT         | 1445-1510 Cuba 2           |
| 0834 WITV? 4 IN 950         | 2115 KID? 3 ID 1215         | 1920 Cuba? 2               |
| 0835 WRTV? 6 IN 995         | 20 Es 2029 KORK 3 NV 1050   | 2015 WTVJ? 4 FL 1150       |
| 0859 MUF 90.1 MHz           | KVVU? 5 NV 1040             | 2025 WPTV? 5 FL 1150       |
| 1045 f/outs                 | 2055 KOAI? 2 AZ 855         | WCIX? 6 FL 1150            |
| 13 tr 0750 WAPT? 16 MS 525  | 2115 KIVK? 3 AZ 835         | 2029 WPBT 2 FL 1150        |
| 0755 WGNO? 26 LA 510        | 2140 KNXT? 2 CA 1190        | WEDU? 3 FL 985             |
| KALB? 5 LA 385              | 2200 f/outs                 | MUF 89.7 MHz               |
| 0800 WRBT? 33 LA 450        | 21 Es 1845 KTIWO 2 WY 1015  | 2105 f/outs                |
| 0829 WLPB? 27 LA 450        | 1850 KOAI 2 AZ 855          | 06 Es 0850-0855 WTHS? 2 FL |
| 14 tr 0059 KTRE 9 TX 265    | 1900 f/outs                 | 1029 WESH 2 FL 1055        |
| Es 1640-45 MUF 3            | 22 Es 1845 YSU? 4 E1 S 1200 | 0959 WPBT/WTHS 2 FL        |
| 15 tr 0855 KETS 2 AR 515    | TGV? 3 Guat 1120            |                            |

Es levels in March kept up fairly well (March is usually the poorest of the year for it) with a lot of openings to the northern US, as well as the more normal Latin American stuff. However, for the second year now, there has been a lack of trans-Gulf ducting, which seemed common in 1973-75. Had some indirect information that the Midwest might have had an aurora on evening of March 23. With the low solar activity, prospects for any Es-TE link-ups this far north yet are very poor on TV. 73 Pat WA5IYX

Buck Battin, 4305 Pitt, Duluth MN 55804 (CST) (March)

I said in my last report (to Bill Draeb) that February was the second worst month for DX I'd ever had. Well, that's not true. I checked my back logs, and discovered that last March in Shreveport I only logged two stations...both were 210-mile tropes. February this year is thus downgraded to my third worst month. My new system is almost ready to go. My wind-damaged Jerrold 10-element 10-band yagi has been replaced with a Winegard. Conditions have changed so much since then, it's hard to say which is the better antenna. It appears too close to call. And I finally have the equipment I need to beef up my UHF capabilities. I never got the RG-11/u foam cable I ordered...the company says it never received my order. (If your check clears, be suspicious, hi...de) But I found it locally, so I'm in business there. And my CMA-Ub finally arrived from Blonder-Tongue... it was back-ordered for over a month. I should have everything installed within a few days. It will look like this: a 7-foot Finco dish at 35' with a CD-44 rotor; the 300 Ohm input on the CMA-Ub will be fed with Belden #8275 foam-filled twinlead. From there, the signal will be carried down the mast and into the house by Belden #8213 RG-11/u foam coax. Next report, I'll tell you how it works. It's started to warm up here, and hopefully, that means some decent tropo is in the offing. On March 7th and 8th, a couple of stations in the 150-mile range began trying to tear the antenna off the roof, but so far no long distance stuff. (best of luck with the new system, Buck...de)

|                           |                           |                          |
|---------------------------|---------------------------|--------------------------|
| 07 tr 2106 WHLA 31 WI 210 | 08 tr 0727 WPNE 38 WI 255 | 13 tr 0025 WJMN 3 MI 250 |
| 2203 WXOW 19 WI 210       | WHLA 31 WI 210            | WLUC 6 MI 225            |



Buck Battin continued...

14 tr 1230 WHLA 31 WI 210      15 ms 0545 WSYR 3 NY 830      May watchers of local programs be plagued w/CCI=Buck  
 1950 WPNE 38 WI 255      27 tr 1900 WHLA 31 WI 210

John Phillips, 4559 Downing Court, Pleasanton CA 94566 (PST)  
 CM 3617/0040b VHF Ant/preamp, CM 4248/0071b UHF Ant/preamp, 1975 Zenith Chromacolor II.  
 March 1977      08 tr 0930 KJTV 17 CA 239      08 tr 0945 KCOY 12 CA 218  
 08 tr 0930 KIXE 9 CA 205      KERO 23 CA 239      KBAK 29 CA 239  
 KRCR 7 CA 205      0945 KEYT 3 CA 247

(Here's the list of fulltime stations John sent in... Asterisk means snowfree 100% ..de)  
 KTVU-2 Oakland, 31 miles\*      KHSL-12 Chico, 163 miles      KQEC-32 San Fran, 31 miles\*  
 KCRA-3 Sacramento, 45 miles\*      KOVR-13 Sacrmto, 45 miles\*      KGSC-36 San Jose, 13 miles\*  
 KRON-4 San Fran, 31 miles\*      KCSM-14 San Mateo, 27 miles      KVOF-38 San Fran, 29 miles\*  
 KPX-5 San Fran, 31 miles\*      KLOC-19 Modesto, 50 miles\*      KTXL-40 Sacrmto, 45 miles\*  
 KVIE-6 Sacramento, 45 miles\*      KEMO-20 San Fran, 29 miles\*      KBHK-44 San Fran, 31 miles\*  
 KGO-7 San Fran, 31 miles\*      KFTV-21 Hanford, 160 miles      KMST-46 Monterey, 75 miles  
 KSBW-8 Salinas, 66 miles\*      KMJ-24 Fresno, 159 miles      KJEO-47 Fresno, 140 miles  
 KOLO-8 Reno, 152 miles      KTSF-26 San Fran, 29 miles\*      KTEH-54 San Jose, 23 miles  
 KQED-9 San Fran, 31 miles\*      KMPH-26 Visalia, 202 miles      KDTV-60 San Fran, 29 miles\*  
 KCTV-10 Sacrmto, 45 miles\*      KFSN-30 Fresno, 140 miles      Distances are measured to  
 KNTV-11 San Jose, 36 miles\*      KMOV-31 Sacrmto, 45 miles\*      actual xmtr site.....

I also receive a 1000-watt channel 29 translator rebroadcasting KGSC-36 San Jose. It is located in Monterey, 75 air-miles distant. (That would be K29AB...de)

John Anderson, Box 186, Lowe Farm MB ROG LEO (CST) (March)  
 Delhi 1057 at 64', CM traps, Panasonic 12" b/w, Radio Shack PRO-3A (for 41MHz monitoring)  
 13 Es 0000 KMDI 2 TK 1233      29 tr 1800 KWCM 10 MN 300      Tropo on the 30th was just  
 KMOL 4 TK 1380      30 tr 2000 KTTT 10 MN 432      detectable on the monitor  
 receiver, with no traces at all on the set itself. A weak signal, to say the least! I'm looking around for some sort of power supply that would allow me to run the Panasonic from a 12-volt power source, so far no luck, but I'm still looking. 73=John  
 (John, is your monitor directly coupled to the IF, or is radiation good enough? ..de)

Doug Everitt, 1710 W Maine, Enid OK 73701 (405) 233-4890 (CST) (11 Mar - 11 Apr)  
 11 Es 1710 XEW? 2 DF 1200      06 Es 1029 Cuba 3      08 Es 1215 WESH? 2 FL 1100  
 14 tr 0730 KMCC 28 TX 280      1142 Cuba 2      1746 WTHS/WPBT 2 FL  
 K66AQ Sayre OK      1201 Cuba 5      11 tr 0740 KXTX 39 TX 250  
 K68AU Sayre OK      1805 XHT? 2 SON      KGIN 11 NE, KERA 13 TX  
 K73AW? Turkey TX      XHBS? 4 SIN      KCBD 11 TX, KAIT? 8 AR  
 01 tr 1830 KXTX 39 TX 250      08 Es 1205 WTHS/WPBT? 2 FL

Conditions have been generally lousy around here for a while, with a lot of those annoying short-haul super-intense tropo openings, many of which I didn't bother logging. Cuba on 06 Apr was very solid thru 1300, with Palm Tree TP on 2 and 5, and c/b on 3. Channel 3 also had a music program and cartoons during the period. R.National audio was used with the 3/4 c/b---no color was noted, so I assume they are using SECAM, as Ken Simon indicated a while back. Both CBS and NBC (particularly the former) have been letting their New York flagship station IDs slip over the net a lot lately, notably the WCBS-2 ID seen on Carol Burnett 02 Apr. The dish may go to 50' soon... I'll probably replace the old preamp with a B-T CMA-Ub or CMA-ULN.

| Date         | March | 10 | 11   | 12 | 13 | 14 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | April | 05   | 06 | 08 |
|--------------|-------|----|------|----|----|----|----|----|----|----|----|----|----|-------|------|----|----|
| # reporters  | 1     | 2  | 1    | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1  | 1     | 1    | 2  | 1  |
| MUF at least | 6     | 4  | 90.1 | 4  | 3  | 4  | 3  | 5  | 2  | 4  | 2  | 6  |    |       | 89.7 | 5  | 2  |

A REMINDER...We're still accepting reports of MS/Au reception on Built-In antennas here. The deadline for the records listing will be 20 May. If you have any candidates, send them in before that time. If response is slow, the deadline may be extended, but we'd really like to get this project completed before the summer gets too hectic...

MORE REMINDERS...If you see a given station more than 15% of the time by tropo or extended groundwave, it probably isn't newsworthy, and beginning in June, these will be edited from reports reaching this desk. Comments should be submitted with a report, although these are not mandatory. If you like, you can list your phone # (with area code) so that other DXers can contact you during openings, etc. Distances should be given on tropo loggings (for statistical compilation by other members) in either miles or kilometres... in this column, distances are always in miles unless noted otherwise...

# PHOTO-NEWS

Jim Alexander  
4 Brook Court  
Parsippany, NJ 07054

May, 1977

Before beginning with this month's photos, a couple of items to take care of. First, WTPDA Hq has received a request from someone writing a book on DXing. It reads: "In order to 'garnish' the book I'm writing on DXing with photos... I would appreciate it if you could send me as soon as possible... photographs of interesting uses and installations." If you'd like to give the author any photographic material for his book, send the photos to: Van Waterford, c/o Van's Press, 228 El Molino Ave., Pasadena, CA 91101.

Second, the description of Andy Bolin's DX shack (March VUD, page 16) should read "The shack in detail (from right to left, around the room)..." Your editor mistakenly typed "from left to right." Hope this didn't cause any confusion!



KMTV- 3 Omaha, NE  
855 mile Es (Le Blanc)



WTHI-10 Terre Haute, IN  
285 mile tropo (Gaines)



WPGH-53 Pittsburgh, PA  
205 mile tropo (Gaines)



KFSM- 5 Fort Smith, AR  
900 mile Es  
2/15/77, 0959 EST (Combs)

#### Contributors:

Ron LeBlanc, Marrero, Louisiana  
Paul Gaines, Detroit, Michigan  
John F. Combs, Orlando, Florida

# QSL CORNER

Thomas J. Vingling, Jr.  
221 Pinewood Road  
Baltimore, MD 21222  
Phone # 1-301-282-5649  
Deadline: 10th

- ONT CBL 94.1 Toronto, Box 500, Station A, MSW 1E6. Standard CBC QSL Card, with incorrect date (date of letter, not reception), signed by L. Caplan in 10 days. Simon
- FL WKGC 90.7 Panama City, Gulf Coast Community College, 32401. Letter from Charlie Wooten, CE in 5 days (and that includes a weekend). COX
- IL WITT 93.5 Tuscola, 600-D Main St, 61953. Letter from Frederick W. Seibold, owner & CE. Hathaway
- WRTL 95.3 Rantoul, Box 115, 61866. Prepared card in answer to third report from Bob Brown, CE. Hathaway
- IN WSMJ 99.5 Greenfield, Box 248, 46140. Letter signed by Curtis R. Steele, CE said they just completed a new 500 foot tower. Hathaway
- MD WCRH 90.5 Williamsport, Rt 2, 21795. Letter from Robert W. Dundkle, Station Manager, tells of new 200 foot tower that is only 27 feet above average terrain, also send bumper-sticker. Vingling
- WESP 106.3 Cambridge, Box 237, 21613. Send a memo note for QSL from the desk of Sam Cannon, CE. Vingling
- WJMD 94.7 Bethesda, 5530 Wisconsin Ave, Chevy Chase, 20015. Letter from Gary Hess, Tech. Dir. on sister station letter head paper from WUST-AM. Vingling
- WRBS 95.1 Baltimore, 3600 Georgetown Rd. 21227. Letter & bumper-sticker from Barry Freeman, CE, also send coverage map. Vingling
- WCAD 102.7 Baltimore, 40 W. Chase St., 21201. Send picture post card showing stations towers from the air. QSL from W. J. Marshner, Sr. Tech. Vingling
- WLIF 101.9 Baltimore, 1570 Hart Rd, 21204. Letter & coverage-map from Richard Seaby, CE. Vingling
- WTRR 100.7 Westminster, Box 828, 21157. Letter from Ronnie H. Wright, CE. Vingling
- WOLC 102.5 Princess Anne, Box 130, Cristfield Lane, 21853. Letter, map & bumper-sticker from David Downes, Eng. Vingling
- WGMS 103.5 Bethesda, 1 Central Plaza, 11300 Rockville Pike, Rockville, 20852. nice form letter from H. K. Leyh, CE. Vingling
- MI WJPD 92.3 Ishpeming, Box D, 49849. Letter from Steve Holmgren, PD Typed a verification while I was visiting their studio (they failed to answer my written reports) Station has been heard in Canada, but Duluth is as far as they have been heard in Minnesota. Elving
- MN KKWB 104.9 Breckenridge, Box 249, 56520. Letter from Charres Sjostrum, CE says "Duluth most distant. It is all the more interesting since we are a class A with only 3 kw & mounted on side of AM tower, which is not too high." Elving
- WKLK 100.9 Cloquet, P. O. Box 309, 55720. Letter from Kevin J. Abram, CE. Elving
- MO KOBC 90.7 Joplin, Ozark Bible College, 1111 N. Main St. 64801. Friendly non-date letter... "We have been picked up in CA & NC, we even were heard once in Springfield, VA while on 10 watts (I wonder who? Krs)-(L.T. Vogt ed.) Signed by James Taylog, gen. man. reply in 10 days. Simon
- KOPN 89.5 Columbia, 915 E. Broadway, 65201. Friendly letter from Dave Taylor, production director mentions that West P. B. Florida is a new dx record for station. Reply in 4 weeks. Simon
- NC WKNC 88.1 Raleigh, Box 5748, 27607. Friendly letter from Robert A. Sadler, CE tells me that my letter caused a lot of excitement for I'm the most forest to hear their station. They just had a power increase from 10 watts to 2.9kw, and is waiting for more reports from WTFDA members. Vingling
- PA WNCN 101.3 Lancaster, 24 S. Queen St, 17603. A short letter from Wayne Campbell, CE new call from WGAL-FM is because of ownership of station. Vingling
- TX KETR 88.9 Commerce, East Texas State University, QSL card on decal ogram & letter discussing other reception reports & telling of other Texas DX station I heard that day, plus an apology for being late in replying from Jerome A. Erickson, CE reply in 3 weeks. Simon
- WV WVPW 88.9 Buckhannon, West Virginia Westeyan College, 26201. Nice letter & map from Ronald E. Roth, Dir of Eng. tells me that I'm the first one who heard them in Maryland. New call sign from WVUC-FM. Vingling

Reporters are John D. Hathaway, Bruce Elving, Ken Simon, Tom Vingling, editor. This was a good month for the FM QSL's. Somehow I receive more FM reports then TV or PSB. Remember all are welcome. When you send in a report please give call, frequency, city & state. Some reports coming with not all of the information about a station, like no freq. given, etc. So please report all qsl's received on FM, TV & PSB for next month, I'm running low on items.

75' Tom





# STATIONS

Andy Bolin, Editor  
709 Lincoln Ave.  
Charleston, Illinois  
61920  
Deadline June 10th

MAY 1977

## 88 & 89MHz DX RECORDS

| MHz  | PROP | CALL | LOCATION            | Miles | DXer               | LOCATION         |
|------|------|------|---------------------|-------|--------------------|------------------|
| 88.1 | Es   | WAUP | Akron OH            | 1255  | Glenn Hauser,      | Von Ormy TX      |
|      | Tr   | ---- | Guatemala Guat      | 1125  | Mike Dalton,       | Clearwater FL    |
|      | MS   | KDPS | Des Moines IA       | 900   | Glenn Hauser,      | Von Ormy TX      |
|      | Au   | KSOZ | Point Lookout MO    | 565   | John Ebeling,      | Bloomington MN   |
| 88.3 | Es   | KQED | San Francisco CA    | 1375  | Robert Cooper,     | Oklahoma City OK |
|      | Tr   | KSUC | Keene TX            | 930   | Mike Dalton,       | Clearwater FL    |
|      | MS   | WHWC | Colfax WI           | 855   | Larry Vogt,        | Springfield VA   |
|      | Au   | WAER | Syracuse NY         | 675   | Andy Bolin,        | Charleston IL    |
| 88.4 | Es   | TGRT | Guatemala Guat      | 1130  | Glenn Hauser,      | Von Ormy TX      |
| 88.5 | Es   | WFCR | Amherst MA          | 1405  | Robert Cooper,     | Oklahoma City OK |
|      | Tr   | WRAS | Atlanta GA          | 890   | Glenn Hauser,      | Von Ormy TX      |
|      | MS   | WFDD | Winston-Salem NC    | 1160  | Glenn Hauser,      | Von Ormy TX      |
|      | Au   | WFCR | Amherst MA          | 705   | Russ Brown,        | Saint Joseph MI  |
| 88.7 | Es   | HRLP | Tegucigalpa Hond    | 1260  | Glenn Hauser,      | Von Ormy TX      |
|      | Tr   | HRLP | Tegucigalpa Hond    | 1035  | Mike Dalton,       | Clearwater FL    |
|      | MS   | WHA  | Madison WI          | 1080  | Glenn Hauser,      | Von Ormy TX      |
|      | Au   | Wha  | Madison WI          | 685   | Fred McCormack,    | Des Lacs ND      |
| 88.8 | Es   | TGRT | Guatemala Guat      | 1130  | Glenn Hauser,      | Von Ormy TX      |
|      | Tr   | TGRT | Guatemala Guat      | 1125  | Mike Dalton,       | Clearwater FL    |
| 88.9 | Es   | WEKU | Richmond KY         | 2000  | Jim Pizzi,         | Santa Maria CA   |
|      | Tr   | XHM  | Mexico City DF      | 1300  | Mike Dalton,       | Clearwater FL    |
|      | MS   | WKES | Chattanooga TN      | 875   | Glenn Hauser,      | Von Ormy TX      |
|      | Au   | WEKU | Richmond KY         | 675   | John Ebeling,      | Bloomington MN   |
| 89.0 | Es   | YSRI | San Salvador E S    | 1215  | Pat Dyer,          | San Antonio TX   |
| 89.1 | Es   | ZBM  | Hamilton Bermuda    | 1385  | Andy Bolin,        | Charleston IL    |
|      | Tr   | XHRA | Guadalajara Jal     | 1480  | Mike Dalton,       | Clearwater FL    |
|      | MS   | NONE |                     |       |                    |                  |
|      | Au   | KMUW | Wichita KS          | 640   | Russ Brown,        | Saint Joseph MI  |
| 89.2 | Es   | XEJT | Tampico Tams        | 990   | Glenn Hauser,      | Enid OK          |
| 89.3 | Es   | WPCS | Pensacola FL (AL)   | 1420  | Fred McCormack,    | Des Lacs ND      |
|      | Tr   | WPCS | Pensacola FL (AL)   | 800   | Russ Brown,        | Saint Joseph MI  |
|      | MS   | WPCS | Pensacola FL (AL)   | tie   | Carlton Howington, | Uniontown OH     |
|      | MS   | WHKW | Chilton WI          | 1165  | Glenn Hauser,      | Von Ormy TX      |
|      | Au   | WCAL | Northfield MN       | 500   | Frank Merrill,     | Milan MI         |
| 89.4 | Es   | TGD  | Quetzaltenango Guat | 1095  | Glenn Hauser,      | Von Ormy TX      |
| 89.5 | Es   | WPKN | Bridgeport CT       | 1365  | Robert Cooper,     | Oklahoma City OK |
|      | Tr   | WMOT | Murfreesboro TN     | 840   | Glenn Hauser,      | Von Ormy TX      |
|      | MS   | WNIU | Dekalb IL           | 1035  | Glenn Hauser,      | Von Ormy TX      |
|      | Au   | WPKN | Bridgeport CT       | 790   | Andy Bolin,        | Charleston IL    |
| 89.6 | Es   | TGDX | Guatemala Guat      | 1130  | Glenn Hauser,      | Von Ormy TX      |
| 89.7 | Es   | WMCU | Miami FL            | 1510  | John Ebeling,      | Bloomington MN   |
|      | Tr   | WMCU | Miami FL            | 1155  | Glenn Hauser,      | Von Ormy TX      |
|      | MS   | KGCC | Denison TX          | 1120  | Larry Vogt,        | Springfield VA   |
|      | Au   | WGBH | Boston MA           | 905   | Andy Bolin,        | Charleston IL    |
| 89.9 | Es   | WJCT | Jacksonville FL     | 1625  | Fred McCormack,    | Des Lacs ND      |
|      | Tr   | WJCT | Jacksonville FL     | 1020  | Glenn Hauser,      | Von Ormy TX      |
|      | MS   | WHSB | Brule WI            | 905   | Larry Vogt,        | Springfield VA   |
|      | Au   | WHSB | Brule WI            | 505   | Frank Merrill,     | Milan MI         |

### NEW DX RECORDS FOR 100+MHz

|       |    |      |                  |      |                 |               |
|-------|----|------|------------------|------|-----------------|---------------|
| 100.1 | Es | WIVE | Ashland VA       | 1420 | Fred McCormack, | Des Lacs ND   |
| 100.3 | Es | KIQQ | Los Angeles CA   | 2150 | Mike Dalton,    | Clearwater FL |
| 100.5 | Es | WCMS | Norfolk VA       | 1505 | Fred McCormack, | Des Lacs ND   |
| 100.7 | Es | WDAE | Tampa FL         | 1750 | Fred McCormack, | Des Lacs ND   |
| 100.9 | Au | KQAD | Luverne MN       | 420  | Fred McCormack, | Des Lacs ND   |
| 101.3 | Es | WWDM | Sumpter SC       | 1480 | Fred McCormack, | Des Lacs ND   |
| 101.3 | Au | WEZO | Rochester NY     | 1210 | Fred McCormack, | Des Lacs ND   |
| 101.5 | Es | CJBR | Rimouski PQ      | 1480 | Fred McCormack, | Des Lacs ND   |
| 101.7 | Es | WJJS | Lynchburg VA     | 1365 | Fred McCormack, | Des Lacs ND   |
| 101.9 | Es | WCIB | Palmouth MA      | 1580 | Fred McCormack, | Des Lacs ND   |
| 101.9 | Au | WRIG | Wausau WI        | 625  | Fred McCormack, | Des Lacs ND   |
| 103.3 | MS | KNTD | Wichita Falls TX | 1345 | John Jefferson, | Concord CA    |

# Memorabilia

May 1977

Robert J. Williams  
251 6th Avenue East  
Twin Falls, ID 83301  
Phone: (208) 733-3621  
Deadline: 10th of month

This month, MEMORABILIA presents:

## "THIS IS YOUR DX"

The following is an account of a day of FM DXing in the DX career of Mike Dalton. (Congrats, Mike---that was a nice "big fish"---rjw)

About a year ago, we (Mike Dalton and others) had a rather nice sporadic-E opening to the Texas-Oklahoma area. We were trying to add stations as fast as we could pick new ones out of the mess that was on the (FM) band.

Unfortunately, I had not yet learned the value of running a recorder while DXing, so I was unable to leisurely review the day's activity. But even though I did not have a tape machine in operation, I had an octave band equaliser in the circuit. This equaliser can really help in cutting down on noise and increasing intelligibility.

The day was passing with normal results. There was a very weak signal at just above 90 MHz. coming in. I was somewhat surprised to be hearing a weak signal, as most stations could really move the signal indicator for a while at least. My greatest fear was that I would wind up listening to some parasitic signal from a local radio station. In any event, I continued to listen to this station as it continued to play rock music. There was something very strange about this station! At first I was too dumbfounded to know what the problem was. After about what seemed like hours, it dawned on me that the announcer was speaking in Spanish. I couldn't figure out why I was logging songs in English which I recognised very well as a sort of "top 40", yet I couldn't figure out what the Spanish had to do with it. After checking Elving's log and the Mexican listings, I couldn't seem to find much on that frequency. After continuing down the list, I found a station on the frequency listed for Tijuana that played rock music.

Naw, that wasn't possible. No one around here had ever heard a station even close to that distance out from here. There wasn't any precedent for such a reception; if only we had heard something earlier during DX sessions from Colorado or some such place. Alas, no such signals had been received from these areas. Well, as you can imagine, the station took one fade too many and disappeared into the noise, never to be heard again.

After signals subsided that day, I had a chance to think about the station that I could scarcely hear with my equalizer in the audio chain. There wasn't a college-looking station in the log pages nor a suspect station in Oklahoma, Kansas, or elsewhere. With complete nonchalance I sent a QSL form to KHIS in Tijuana. I didn't ever expect to resolve this problem; in fact if I get a Mexican QSL returned it is a miracle since I don't speak or write Spanish.

Much to my delight I received a positive confirmation of reception from the people at KHIS. For quite some time, the reception has continued to bring me pleasure and to absolutely amaze people who have visited our store and looked at the DX map.

For some years now, I have been trying unsuccessfully to top this reception. That is the trouble with DXers...given one big fish they figure that there has to be something better out there that an antenna can touch. The trouble is, that unlike fish stories, DX stories about the ones that got away have little or no meaning, and, unlike the fisherman, we do not even have the pleasure of recognition!

(The above "fish" story from an account by Mike Dalton.--ed.) 73s, Bob

# A TRAIL OF BLEACHED BONES

Below is an incomplete list of defunct UHF TV stations and construction permits since UHF was first authorized in 1953. The listing, arranged by channel, was compiled by Mike Dornier, Jr., with minor additions by Bob Cooper and by this writer. Additional information on these outlets or other defunct UHF stations is most welcomed for our academic research.

— CLARKE INGRAM

|         |                               |         |                               |         |                                  |
|---------|-------------------------------|---------|-------------------------------|---------|----------------------------------|
| KTRB-TV | 14 CA Modesto                 | KHEC    | 20 CO Denver                  | KTVQ    | 25 OK Oklahoma City <sup>o</sup> |
| KIHP-TV | 14 CA Santa Barbara           | KIRV    | 20 CO Denver                  | WCOS-TV | 25 SC Columbia                   |
| WFAN-TV | 14 DC Washington              | KIUI-TV | 20 HI Honolulu                | KAVU    | 25 TX Victoria                   |
| WJYY-TV | 14 IL Jacksonville            | WIND-TV | 20 IL Chicago <sup>1</sup>    | WACO-TV | 25 TX Waco                       |
| WTVG    | 14 IL Joliet                  | WJMR-TV | 20 LA New Orleans             | WVNA-TV | 26 AL Florence                   |
| WJZB-TV | 14 MA Worcester               | WAAB-TV | 20 MA Worcester               | KDEN    | 26 CO Denver                     |
| KACT-TV | 14 MO Festus                  | WOAC-TV | 20 MI Ann Arbor               | WNLC-TV | 26 CT New London                 |
| WJET    | *14 NY Ithaca                 | WPAC-TV | 20 MI Ann Arbor               | WHFC-TV | 26 IL Chicago <sup>p</sup>       |
| KLPR-TV | 14 OK Oklahoma City           | WHCU-TV | 20 NY Ithaca                  | WJBE    | 26 IN Indianapolis               |
| WFSJ    | 14 FR Ponce                   | WHRP-TV | 20 PR Ponce                   | WISU-TV | *26 IN Terre Haute               |
| WVEW-TV | 14 WV Wheeling                | KUAB    | 20 TX Houston                 | WCKG    | 26 LA New Orleans <sup>q</sup>   |
| KLUZ    | 15 AZ Phoenix                 | KCTL    | 20 WA Seattle                 | WUOM-TV | *26 MI Ann Arbor                 |
| WFFA    | 15 FL Pensacola               | WTVS    | 21 AL Gadsden                 | WNYP    | 26 NY Jamestown <sup>r</sup>     |
| WBLN    | 15 IL Bloomington             | KUSH    | 21 CA San Diego               | WSWO-TV | 26 OH Springfield                |
| WIPT    | 15 IN Waterloo                | WIRK-TV | 21 FL West Palm Beach         | WSTF    | 27 CT Stamford                   |
| KLML-TV | 15 LA Lafayette               | WKLO-TV | 21 KY Louisville              | WMIE-TV | 27 FL Miami                      |
| KNIO-TV | 15 NE Omaha                   | WBOK-TV | 21 NY Poughkeepsie            | WHKP-TV | 27 NC Hendersonville             |
| WCBF-TV | 15 NY Buffalo                 | WROH    | *21 NY Rochester <sup>1</sup> | KPTV    | 27 OR Portland <sup>s</sup>      |
| WCAF-TV | 15 NY Oneonta                 | WUTV    | 21 OH Youngstown <sup>j</sup> | WCMB-TV | 27 PA Harrisburg <sup>t</sup>    |
| WICA-TV | 15 OH Ashtabula               | WVLA    | 21 PA Lancaster <sup>k</sup>  | KLIF-TV | 27 TX Dallas                     |
| WLBR-TV | 15 PA Lebanon <sup>a</sup>    | KFWT    | 21 TX Fort Worth              | WTOV-TV | 27 VA Norfolk                    |
| WACA-TV | 15 SC Camden                  | KVAN-TV | 21 WA Vancouver               | WRLU    | 27 VA Roanoke                    |
| WPDT    | 15 SC Florence                | KNGO    | 22 CO Fort Collins            | WROV-TV | 27 VA Roanoke <sup>1</sup>       |
| KMYO-TV | 16 AR Little Rock             | WJNR-TV | 22 FL Clearwater              | KDWN-TV | 27 WY Cheyenne                   |
| KPIC-TV | 16 CA El Centro               | WIFE    | 22 OH Dayton <sup>1</sup>     | KUSC-TV | *28 CA Los Angeles <sup>v</sup>  |
| KKOC-TV | 16 CA Ventura                 | WENS    | 22 PA Pittsburgh <sup>c</sup> | WSSS-TV | 28 FL Tampa                      |
| WOMH-TV | 16 FL Lakeland                | WURM-TV | 22 PR Mayaguez                | WNBB-TV | 28 MA New Bedford                |
| WTAC-TV | 16 MI Flint                   | KTVW    | 22 TX Wichita Falls           | WCTV    | 28 MI Flint                      |
| KRFB-TV | 16 OH Kettering <sup>b</sup>  | KTLP    | 22 WA Seattle                 | WETV    | 28 NC Raleigh                    |
| WENS    | 16 PA Pittsburgh <sup>c</sup> | KETV    | 23 AR Little Rock             | WNAO-TV | 28 NC Raleigh <sup>v</sup>       |
| WUHM-TV | 16 PR Mayaguez                | WFTL-TV | 23 FL Ft. Lauderdale          | KIKS-TV | 29 LA Lake Charles               |
| WRBT    | 16 RI Providence              | WJIA-TV | 23 GA Auburn                  | WGCT-TV | 29 MN St. Paul                   |
| KVVV-TV | 16 TX Galveston               | WMCN    | 23 MI Grand Rapids            | KVMP    | 29 OK Tulsa                      |
| KHER    | 16 TX Longview                | KIMA-TV | 23 MN Minneapolis             | WTP-TV  | 29 PA Philadelphia <sup>x</sup>  |
| WWOD-TV | 16 VA Lynchburg               | WPTV-TV | 23 NY Albany                  | WTIE-TV | 29 PA State College              |
| KBTU    | 17 AR Little Rock             | WTVF    | 23 NY Buffalo                 | KLIP-TV | 29 TX Dallas                     |
| WITV    | 17 FL Ft. Lauderdale          | WMAC-TV | 23 OH Massillon <sup>m</sup>  | KXYZ-TV | 29 TX Houston                    |
| KCTV    | 17 IA Des Moines              | KCEB    | 23 OK Tulsa                   | KBRT    | 29 TX San Antonio                |
| KSO-TV  | 17 IA Des Moines              | WGTH    | 23 PA Philadelphia            | WOTV    | 29 VA Richmond                   |
| WTBO-TV | 17 MD Cumberland <sup>d</sup> | WGLV    | 23 SC Greenville              | WDUV-TV | 30 FL Jacksonville               |
| WLAM-TV | 17 ME Lewiston                | KDXT    | 23 TX Dallas                  | WOBS-TV | 30 FL Jacksonville               |
| WCOW-TV | 17 MN St. Paul                | KTPV    | 23 TX Houston                 | WMSB    | *30 MI East Lansing <sup>y</sup> |
| WKDN-TV | 17 NJ Camden                  | KIT-TV  | 23 WA Yakima                  | KFUC-TV | 30 MO Clayton                    |
| WRTV    | *17 NY Albany <sup>o</sup>    | WTIP-TV | 23 WV Charleston              | WCOG-TV | 30 MS Meridian                   |
| WBUF    | 17 NY Buffalo <sup>f</sup>    | KAON-TV | 24 AR Fort Smith              | WRLO    | 30 OH Plymouth                   |
| KSPC    | 17 OK Tulsa                   | WCHF    | *24 CT Hartford               | WURT-TV | 30 PR San Juan                   |
| WSCV    | 17 SC Spartanburg             | WDAK-TV | 24 IL Danville                | WKTO-TV | 30 TN Nashville                  |
| KITV-TV | 18 CA San Bernardino          | WNET-TV | 24 MD Baltimore               | WMKE-TV | 30 WI Milwaukee                  |
| KSTT-TV | 18 IA Davenport               | KGSL-TV | 24 MO St. Louis               | KTVJ    | 31 CA Stockton                   |
| WTLF    | 18 MD Baltimore               | WTVF    | 24 NY Elmira                  | KTOV-TV | 31 CO Denver                     |
| KWLB-TV | 18 NC Fayetteville            | KFVC-TV | 24 OR Portland                | WPCT    | 31 FL Melbourne                  |
| WBCT    | 18 NY Elmira <sup>e</sup>     | KPIC    | 24 OR Salem                   | WSFO-TV | 31 IN Marion                     |
| WTSJ    | 18 PR San Juan                | WGLJ    | 24 TN Memphis                 | WDCL    | 31 KY Owensboro                  |
| KCTV    | 18 TX Austin                  | KTVV    | 24 TX Austin <sup>n</sup>     | WRLH    | 31 NH Lebanon                    |
| KDCD-TV | 18 TX Midland                 | WBTM-TV | 24 VA Danville                | WEOL-TV | 31 OH Elyria                     |
| KWCS-TV | *18 UT Ogden                  | WCAN-TV | 24 WI Milwaukee               | WGSF    | *31 OH Newark <sup>z</sup>       |
| WVJS-TV | 19 KY Owensboro               | WJUD    | 25 FL West Palm Beach         | WRNR-TV | 31 OH Port Clinton               |
| KTIC-TV | 19 MN St. Cloud               | KTAG    | 25 LA Lake Charles            | WETX    | *32 DC Washington                |
| WLNS-TV | 19 NC Jacksonville            | KCTY    | 25 MO Kansas City             | WPCT    | 32 FL Clearwater                 |
| WTLV    | *19 NJ New Brunswick          | WROA-TV | 25 MS Gulfport                | WTLF    | 32 IL Evanston                   |
| KLPR-TV | 19 OK Oklahoma City           | WJAG-TV | 25 MS Jackson                 | WCNO-TV | 32 LA New Orleans                |
| KAEC-TV | 19 TX Nacogdoches             | WGTV    | *25 NY New York               | KWKC-TV | 32 TX Abilene                    |
| KETX    | 19 TX Tyler                   | WQXN-TV | 25 OH Cincinnati              | KGPA-TV | 33 AZ Phoenix                    |



|         |                                |         |                                |         |                                   |
|---------|--------------------------------|---------|--------------------------------|---------|-----------------------------------|
| WGCT    | 33 FL Miami                    | WONH    | 43 NY Syracuse                 | WCEB-TV | 58 NJ Asbury Park                 |
| WMFL    | 33 FL Miami                    | WTVT    | 43 TN Chattanooga              | WRTV    | 58 NJ Asbury Park                 |
| WEEU-TV | 33 PA Reading                  | KTLG    | 43 TX Corpus Christi           | WJTN-TV | 58 NY Jamestown                   |
| KMEC-TV | 33 TX Dallas <sup>a</sup>      | WOPT    | 44 IL Oak Park                 | KMIV    | 58 OK Miami                       |
| KXTX    | 33 TX Dallas <sup>a</sup>      | WSCS    | 44 IN Evansville               | WELI-TV | 59 CT New Haven                   |
| WACH    | 33 VA Newport News             | WJDW    | 44 MA Boston <sup>p</sup>      | WPTV    | 59 KY Ashland                     |
| WNPU-TV | 33 VA Norfolk                  | KWLH    | 44 MN Winona                   | WSES-TV | 59 NY Buffalo                     |
| KSLN-TV | 34 KS Salina <sup>b</sup>      | KALR    | 45 NE Lincoln                  | QJQC    | *60 CA San Francisco <sup>v</sup> |
| WILK-TV | 34 PA Wilkes-Barre             | WKNE-TV | 45 NH Keene                    | WLXT    | 60 IL Aurora                      |
| KMXN-TV | 34 TX Lubbock                  | WOWE-TV | 45 NY Albany                   | WLTH-TV | 60 MD Baltimore                   |
| KANG-TV | 34 TX Waco                     | WKST-TV | 45 NY New Castle <sup>q</sup>  | WKAR-TV | *60 MI East Lansing <sup>z</sup>  |
| WRDU-TV | 35 FL Orlando                  | KBLE-TV | 46 CA Sacramento               | WUHF-TV | 61 CT Hartford                    |
| WSWB-TV | 35 FL Orlando                  | WSEB-TV | 46 MA Fall River               | WKBF-TV | 61 OH Cleveland                   |
| WEEQ-TV | 35 IL La Salle                 | WCGT-TV | 46 NC Durham                   | WHUM-TV | 61 PA Reading                     |
| WTVM    | 35 MI Muskegon                 | WFGP-TV | 46 NJ Atlantic City            | WAXN    | 62 IN Hammond                     |
| WTRI-TV | 35 NY New York                 | WQTV    | *46 NY Binghamton <sup>f</sup> | WHEP-TV | 62 MA Brockton                    |
| WIMA-TV | 35 OH Lima <sup>o</sup>        | WCHA-TV | 46 PA Chambersburg             | WPMO-TV | 62 MD Frederick                   |
| WUHY-TV | *35 PA Philadelphia            | WKNA-TV | 46 WV Charleston               | WBID-TV | 62 MI Detroit                     |
| KALA    | 35 TX San Antonio              | WNEK-TV | 47 GA Macon                    | WXON    | 62 MI Detroit <sup>aa</sup>       |
| WRTU-TV | 35 VA Richmond                 | KCTR-TV | 47 MN Rochester                | KPTC-TV | 62 MO Kansas City                 |
| WJFB    | 35 WV Fairmont <sup>d</sup>    | WNCI-TV | 47 OH Columbus                 | WISE-TV | 62 NC Asheville                   |
| KSTN-TV | 36 CA Stockton                 | WTVQ    | 47 PA Pittsburgh               | WBAS-TV | 62 NY Syracuse                    |
| WJHP-TV | 36 FL Jacksonville             | WJLD-TV | 48 AL Birmingham               | WCNE    | *63 CT Norwich                    |
| KWTV    | 36 IA Sioux City               | WKAB-TV | 48 AL Mobile                   | KWIG-TV | 63 IA Des Moines                  |
| WQXI-TV | 36 GA Atlanta <sup>c</sup>     | WCIG-TV | 48 CA San Jose                 | WAZI-TV | 63 PA Hazleton                    |
| WACE-TV | 36 MA Northampton              | WIRM-TV | 48 MI Jackson                  | WEKZ-TV | 64 MI Battle Creek                |
| WNOH    | 36 MA Northampton              | WTVX    | 48 NC Gastonia                 | WVIR-TV | 64 VA Charlottesville             |
| WKMI-TV | 36 MI Kalamazoo                | WUBC    | 48 NC Greensboro               | WWIV-TV | 65 MI Battle Creek                |
| KSTM-TV | 36 MO St. Louis                | WOSH-TV | 48 WI Oshkosh                  | WVNE    | 65 NJ Vineland                    |
| KTVU    | 36 MO St. Louis                | WSJL    | 49 CT Bridgeport               | WERE-TV | 65 OH Cleveland                   |
| WAYS-TV | 36 NC Charlotte <sup>f</sup>   | WBBU-TV | 49 NY Buffalo                  | WONB-TV | 65 OH Defiance                    |
| WTVG    | 36 OH Mansfield                | WAKR-TV | 49 OH Akron <sup>s</sup>       | WFNT    | 66 IL Elgin                       |
| WRAX-TV | 36 PA Williamsport             | WNOW-TV | 49 PA York <sup>t</sup>        | WAAC-TV | 66 IN Terre Haute                 |
| KFIZ-TV | 36 WI Fond du Lac              | WUOC    | 49 TN Chattanooga              | WHAX-TV | 66 MI Flint                       |
| WGOV-TV | 37 GA Valdosta <sup>u</sup>    | WTFQ    | 49 VA Norfolk                  | WKNT-TV | 66 NY Kingston                    |
| WSUN-TV | 38 FL St. Petersburg           | KFTY    | 50 CA Santa Rosa               | WSPA-TV | 66 PA Erie                        |
| WGNO-TV | 38 LA New Orleans <sup>h</sup> | KHGD    | 50 CA Santa Rosa               | WLEU-TV | 66 PA Erie                        |
| WPTV    | 38 MN Duluth                   | WSON-TV | 50 KY Henderson                | WAIY-TV | 67 IN Anderson                    |
| KWTT    | *38 TX Tyler                   | KCIT-TV | 50 MO Kansas City              | WNES-TV | 67 IN Indianapolis                |
| WTLB    | 38 WI LaCrosse                 | WXPO-TV | 50 NH Manchester               | WMTI-TV | 67 OH Canton                      |
| WTML    | 39 FL Miami                    | WLEW-TV | 51 PA Bethlehem                | WHRH-TV | 67 OH Warren                      |
| KAKS-TV | 39 NE Omaha                    | WRPA-TV | 51 PA Reading                  | WFMZ-TV | 67 PA Allentown <sup>bb</sup>     |
| WQCY    | 39 PA Allentown <sup>i</sup>   | WLTV    | 51 WV Wheeling                 | WCFG-TV | 68 AL Birmingham                  |
| WSHA    | 39 PA Sharon                   | KCOA    | 52 CA Corona                   | WQTV    | 68 MA Boston                      |
| KDTV    | 39 TX Dallas <sup>a</sup>      | WRAY-TV | 52 IN Princeton                | WMSO-TV | 68 OH Marion                      |
| KNUZ-TV | 39 TX Houston <sup>j</sup>     | WTBO-TV | 52 MD Cumberland               | WMSU    | 69 PA Allentown                   |
| KCCC-TV | 40 CA Sacramento <sup>k</sup>  | WCOC    | 52 NJ Atlantic City            | WCEB    | *71 CT Bridgeport                 |
| WNFA-TV | 40 FL Tallahassee              | WCIC    | 52 NY Ithaca                   | WCTB    | 71 CT Bridgeport                  |
| KHTV    | 40 LA Baton Rouge              | KBID-TV | 53 CA Fresno <sup>h</sup>      | WTPA-TV | 71 PA Harrisburg <sup>cc</sup>    |
| WWHO-TV | 40 MS Jackson                  | WEJF-TV | 53 PA Pittsburgh               | WLOK-TV | 73 OH Lima                        |
| WCCT    | 40 NC Fayetteville             | WAHB    | 54 GA Augusta                  | WFMJ-TV | 73 OH Youngstown <sup>dd</sup>    |
| WQHO    | 40 PA Greensburg               | WTRT-TV | 54 GA Columbus                 | WTVU-TV | 73 PA Scranton                    |
| WLOU-TV | 41 KY Louisville               | WTVI    | 54 IL Belleville               | WMGT    | 74 MA North Adams                 |
| WQXI-TV | 41 KY Louisville <sup>l</sup>  | WUHF-TV | 54 MD Baltimore                | WTOH-TV | 79 OH Toledo                      |
| WROW-TV | 41 NY Albany <sup>m</sup>      | WILS-TV | 54 MI Lansing                  |         |                                   |
| KWID-TV | 41 OK Tulsa                    | WMKG    | 54 MI Muskegon                 |         |                                   |
| KTVR    | 41 TX Galveston                | WDKS-TV | 54 OH Toledo                   |         |                                   |
| KCOR-TV | 41 TX San Antonio <sup>n</sup> | WCMN-TV | 54 PR Arecibo                  |         |                                   |
| WSCN-TV | 42 AL Birmingham <sup>o</sup>  | WLIC-TV | 55 FL Leesburg                 |         |                                   |
| KCFP-TV | 42 CA Concord                  | WPNG    | 55 IL Springfield              |         |                                   |
| WIL-TV  | 42 MO St. Louis                | WPAQ-TV | 55 NC Mount Airy               |         |                                   |
| WLEC-TV | 42 OH Sandusky                 | WRIV-TV | 55 NY Riverhead <sup>v</sup>   |         |                                   |
| WNAM-TV | 42 WI Neenah                   | WCOT-TV | 55 OH Akron <sup>w</sup>       |         |                                   |
| KAKI    | 43 CA Visalia                  | WKRL    | 55 WI Kenosha                  |         |                                   |
| KICU-TV | 43 CA Visalia                  | WGMI    | 56 IN Gary                     |         |                                   |
| WFTT    | 43 CT Bridgeport               | WGCM-TV | 56 MS Gulfport                 |         |                                   |
| WICC-TV | 43 CT Bridgeport               | WKNX-TV | 57 MI Saginaw <sup>x</sup>     |         |                                   |
| WGNH    | 43 IL Bloomington              | WCOG-TV | 57 NC Greensboro               |         |                                   |
| WACH-TV | 43 IN Richmond                 | WGLV    | 57 PA Easton                   |         |                                   |
| KPAZ    | 43 LA Monroe                   | WEEX-TV | 57 PA Harrisburg               |         |                                   |
| WHTV    | *43 NY Syracuse                | WBEK-TV | 58 MI Battle Creek             |         |                                   |

\* = educational UHF station.  
 NOTES, FIRST PAGE: (a) Channel now occupied by WLVI-15. (b) Channel now occupied by educational WOBT-16. (c) When WQEX was authorized on this channel, WENS CP was altered to specify channel 22. It never returned. (d) Revival of WTBO-17 on channel 52 failed, too. (e) Channel now occupied by educational WHEP-17. (f) Channel now occupied by educational WNED-17. (g) Channel now occupied by WSYE-18, a satellite of WSYR-3.

NOTES, FIRST PAGE (continued): (h) Channel now occupied by educational WXXW-20, which itself has temporarily suspended operations. (i) Channel now occupied by educational WXXI-21. (j) Channel now occupied by WFMJ-21. (k) Channel re-assigned to Harrisburg and now occupied by WHP-21. (l) Channel now occupied by WKEF-22. (m) Channel re-assigned to Akron and occupied by WAKR-23. (n) Channel now occupied by KVUE-24. (o) Channel now occupied by educational KOKH-25. (p) Channel now occupied by WCIU-26. (q) Channel now occupied by WGNO-26. (r) Channel now occupied by a high-powered translator of WNED-17. (s) Merged with channel 12, Portland, which now bears its call letters. (t) WCMB-27 switched channels, towers, and transmitters with WTPA-71; the former never returned. (u) First UHF station to fold following the FCC's 1948-52 freeze, after transmitting less than three months. (v) Channel now occupied by educational KCET-28. (w) Channel now occupied by WRDU-28. (x) Channel now occupied by WTAF-29. (y) Originated as WKAR-60, switched to WMSB-30, then to channel 10, then went dark and was revived as WKAR-23. (z) Ohio ETV now operates a 1000-watt translator on this channel.

NOTES, SECOND PAGE: (a) KMEC-33 became KKTIX, then moved to channel 39 when KDTV owners donated facilities. (b) Channel now occupied by translator K34AA. (c) Channel now occupied by WLIO-35. (d) Switched to channel 5, later calls to WDTV. (e) Now operates as WXIA-11. (f) Channel now occupied by WRET-36. (g) Only known station on channel 37, now reserved for radio astronomy. (h) Switched to channel 26; see note (q), first page. (i) Channel now occupied by educational WLVT-39. (j) Channel now occupied by KHTV-39. (k) Channel now occupied by KTKL-40. (l) Channel now occupied by WDRB-41. (m) Switched to channel 10, changing calls to WTEN. (n) Channel now occupied by KWEX-41. (o) Channel now occupied by WFMG-42. (p) Channel now occupied by educational WGEX-44. (q) Moved to Youngstown OH, later to channel 33, using calls WYTV. (r) Channel now occupied by educational WSKG-46. (s) Switched to channel 23; see note (m), first page. (t) Channel now occupied by translator W49AB. (u) Channel now occupied by KAIL-55. (v) WRIV-55 was to be satellite of WSNL-67 Patchogue NY, which is now temporarily off the air itself. (w) CP was held by Rex Hubbard, the Sunday-morning TV evangelist. (x) Switched to channel 25, later calls to WBYL. (y) Channel now occupied by KDTV-60; KQEC was recently revived on channel 32. (z) See note (y), first page. (aa) Channel now occupied by WCPR-62; WXON moved to channel 20. (bb) WPMZ was recently revived on channel 69. (cc) See note (t), first page. (dd) WFMJ bought CP for channel 21; see note (j), first page.

CANADIAN NEWS REPORT (continued from page 13)

MAY 1977

TV APPLICATIONS CONT'D

|                     |        |                |                           |
|---------------------|--------|----------------|---------------------------|
| KELONA, BC          | ch. 21 | 1675 watts ERP | Sat. CBUFT Vancouver      |
| MT. THOMPSON        | ch. 80 | 100 watts      | Sat. CHAN-TV Vancouver    |
| CRANBROCK/KIMBERLEY | ch. 3  | 234 w.         | Sat. "                    |
| CRANBROCK/KIMBERLEY | ch. 13 | 37 w.          | Sat. CFCN-TV-5 Lethbridge |

TIDBITS

- ## CFVO ch. 30 Ottawa-Hull is off air due to bankruptcy. (as of late March)
- ## CKVR-TV-3 ch. 5 100 watts in Haliburton, Ontario left the air on Nov. 1/76 when the site lease expired. Since 1974, parent CKVR Barrie with increased BHAAT has made the Haliburton xmtx redundant. Thus, application to move to ch. 6 was withdrawn.
- ## Licence revoked for 3rd French network at Montreal ch. 29 and Quebec ch. 2.
- ## OBJET ch. 58 Châcoutimi PQ on air in late Dec./76. Sat. of CBMT Montreal.
- ## Applications will be considered later this year for Multicultural TV in Toronto. One includes CFMT-TV ch. 45 180 kw. for 20 language programming.
- ## New Call: CKMG-TV ch. 12 Swift Current SK, Sat. of CKMJ Marquis.
- ## Satellites of CKSO-TV Sudbury in Timmins (ch. 3 55 kw.), Kearns (ch. 11 162 kw.), and Kapuskasing (ch. 10) will carry separate local newscasts out of Timmins. (i.e. departure of some programs from parent in Sudbury)
- ## Decision Deferred: ST. JOHN'S, NFLD CJOJN-TV-5 now ch. 2, 5 watts xmtx power, requested move to ch. 4 with 4220 w. ERP. The ORTC requested that the signal of CJOJN parent (full power ch. 6) be improved, rather than allowing 2 identical high power stations to operate in the same city. We feel that ch. 4 is reserved for CBC FRENCH!
- ## CBUFT ch. 26 Vancouver took to the air in about early October/76 at a cost of \$2.5 million, protested by a petition signed by 40,000! An audience survey has shown a peak prime time audience of 3600 and fewer than 100 viewer during mid-day, considered by many to be the worst ratings in Canadian TV history.
- ## FM NEWS: CN AIR- CBOK-FM Kingston 107.5 100 kw. ID A3 CBOK Kingston & CBOB Brockville  
CFNY-FM Brampton, CMT 102.1 finally approved to go to 100 kw.





# VHF UTILITY DX

Pat Dyer  
5315 Silvertip Drive  
San Antonio, TX 78228  
Deadline: 10th of month

MAY 1977

Hank Holbrook, 7211 Chestnut St., Chevy Chase, MD 20015 QSLed, GMT

8-29: 1448, N9404P 134.5 8 mi w Phil.Int.Aprt.(Hardberger, Bran-  
ton & Herrera, Inc., Piper Comanche 260C)  
11-28: 1542, N6728 131.55 nr Bal.(TWA 243,707-131B; 25 watts)

Now, my loggings. Allied A-2586, Hallicrafters SX-62, Hammarlund SP-600  
JX-10; two 30' long wires at 12' (run ne-sw, se-nw); all are F2 unless  
noted with daily peak MUF; bs-backscatter; GMT used

|                               |                               |                              |
|-------------------------------|-------------------------------|------------------------------|
| <u>3-11:</u> 2005, 36.15      | <u>22:</u> 2030, 35.28        | <u>30:</u> 2307, KKV 690 bs  |
| 2103, KKI 445 bs              | 35.62 bs                      | <u>31:</u> 2235, 37.35       |
| <u>12:</u> 0108, OK City (Es) | 2115, LA-a (Es)               | <u>4-1:</u> 2155, 35.28      |
| 0245, L Ang-b (Es)            | LA-b (Es)                     | 2250, 35.58 bs               |
| 1912, S Die-a (Es)            | <u>23:</u> 2104, LA-b (Es)    | <u>4:</u> 0000, 32.82        |
| 2145, 35.28                   | 2105, SD-a (Es)               | 2045, 30.30                  |
| <u>13:</u> 2020, 38.85        | 2230, 35.58 bs                | <u>5:</u> 2000, 37.000       |
| <u>14:</u> 1925, 35.28        | 2300, 35.28                   | 2042, KIN 645 (Es)           |
| <u>15:</u> 1920, 36.45        | <u>24:</u> 1821, KSC 645 (Es) | <u>6:</u> 2142, low-33 nw US |
| <u>16:</u> 1905, 35.28        | 1930, 37.000                  | 2205, 42.14                  |
| <u>17:</u> 2050, 35.22 bs     | <u>25:</u> 1840, 30.30        | 2305, KIP 651 (Es)           |
| 33.14                         | <u>26:</u> 2030, 36.55        | <u>7:</u> 0218, KAA 893 (Es) |
| <u>18:</u> 2228, 35.28        | <u>27:</u> 2220, 35.28        | 2220, 35.28                  |
| <u>19:</u> 2205, 32.96        | 35.62 bs                      | 2225, 35.62 bs               |
| <u>20:</u> 2205, 35.28        | <u>28:</u> 2127, 37.35        | <u>8:</u> 1945, 37.000       |
| 2207, KKI 445 bs              | <u>29:</u> 2120, 37.35        | <u>9:</u> 1900, 36.55        |
| <u>21:</u> 2140, KIP 651 bs   | <u>30:</u> 2135, 38.85        | <u>10:</u> 2310, 32.000      |
| 2235, 37.35                   | 2217, KKI 445 bs              |                              |

|                                  |                               |
|----------------------------------|-------------------------------|
| CAA 893 35.22 St. Louis, MO      | KSC 645 35.58 Chicago, IL     |
| KIP 651 35.58 Ft. Lauderdale, FL | Los Ang 35.38 Los Angeles, CA |
| KIN 645 35.22 Miami, FL          | b-35.46 (mobile phone)        |
| KKI 445 35.58 Houston, TX        | OK City 35.58 OK City, OK     |
| KKV 690 35.62 Houston, TX        | S Die 35.38 San Diego, CA-mp  |

mp-mobile phone; rest are tone pagers with A2 Morse ID, except OK City  
which is still voice message with voice ID

Starting in May there will be a beacon on 50.1 MHz from France. The call  
is FX3VHF. It will be running c.w. f.s.k. (170-Hz shift) with about 100  
watts into a 5-element beam aimed at Central America. Plans call for it  
to be active for 24 hrs/day thru August. Reports of reception should go  
to W1HDQ (and also to this column). This experiment to observe Es across  
the North Atlantic has been carefully planned and its results may be a  
step in reclaiming some portion of 50-MHz in Europe/Africa for amateur  
use.

Where are they now? (continued) -

|                                |                                |
|--------------------------------|--------------------------------|
| KIP 650 35.58 Birmingham, AL   | KIP 653 35.-- Memphis, TN      |
| KIG 844 35.58 Augusta, GA      | KIQ 510 35.58 Jacksonville, FL |
| KIQ 999 35.34 Mobile, AL       | KIY 508 35.22 Orlando, FL      |
| KIY 757 35.22 Montgomery, AL   | KKJ 460 35.22 Dallas, TX       |
| KMB 305 35.22 San Fran., CA    | KMD 342 35.22 Fresno, CA       |
| KMD 347 35.58 Stockton, CA     | KMD 349 35.58 Bakersfield, CA  |
| KOA 796 35.58 Portland, OR     | KQD 303 35.22 Detroit, MI      |
| KQD 600 35.22 Mansfield, OH    | KQD 607 35.50 Grand Rapids, MI |
| KQD 609 35.22 E. Lansing, MI   | KSC 864 35.58 Peoria, IL       |
| KSD 326 35.58 Indianapolis, IN | KSJ 815 35.22 Ft. Wayne, IN    |
| KUA 217 35.58 Honolulu, HI     | WWA 335 35.22 San Juan, PR     |

73, Pat WA5IYX

-more later-





Post Office Box 202 - Whiting, Indiana 46394  
**WORLDWIDE TV-FM DX ASSOCIATION**



**TOUGH  
TO BEAT!**

**Established 1967**

SERVING THE  
VHF-UHF DX  
ENTHUSIAST

DUES: USA and Canada, \$11 (via first class); overseas, \$18 (via air mail).

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