

# VHF-UHF DIGEST

the official publication of the Worldwide TV-FM DX Association

**JULY 1979**

# BALTIMORE

**ELEVENTH ANNUAL  
WTFDA CONVENTION  
AUGUST 3, 4, 5**

**PRE-CONVENTION ISSUE**



# From The Staff :

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

**WTFDA DUES TO INCREASE...**Effective September 1, membership dues will increase to \$13 yearly. You can renew your membership at the old \$11 rate before the above date. The overseas rate will remain at \$18. A joint membership with WTFDA will be available at \$15, and the rate for VUD column editors will be \$10. Our basic dues have been at the \$11 mark since February 15, 1975. Rising printing costs, and the prospect of yet another increase in postage rates, have made this change necessary.

**NOW'S THE TIME...**If you're planning to attend the 1979 WTFDA Convention in Baltimore (August 3, 4, 5), make sure that your Convention Registration Form is sent in by July 25. In case you don't have a form, which appeared in the May issue, you can contact hosts Thomas J. Yingling, Jr., 221 Pinewood Road, Baltimore, MD 21222, (301)282-5649, or Don Blevins, 1715 Earhart Road, Baltimore, MD 21221, (301)574-2714. Complete convention details appear on page 6 of this issue. See you in Baltimore!

**NEW EASTERN TV DX EDITOR...**TV DXers east of the Mississippi, and in Ontario, Quebec, and the Maritime provinces should now report to Robert Kramer, 3406 W. Pierce, Chicago, IL 60651. Our new EDX editor's first column is on page 30.

**BEYOND SHORTWAVE...**A brand new updated edition of WTFDA's great introductory publication is now available for \$1.50 from WTFDA HQ. This is a useful basic reference to DXing TV, FM, and PSB transmissions above 30 MHz. Order your copy today!

**WTFDA NEWSWIRE...**Time and space limitations have delayed this feature column for another month. Look for its return in the August issue.

**UPCOMING...**In the next few months, we hope to feature much useful information on DXing foreign TV signals via F2 skip. The upcoming cycle peak promises to be a real treat for VHF DXers, and we're looking for your own ideas and approaches to catching some of this memorable DX. Let's hear from you!

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# MAILBOX

John Zondlo  
6617 Maryland  
Hammond, IN 46323  
(219) 844-8694  
Deadline: 10th

## New Members:

Alvin Berger	8669 Cedar St.	Omaha, NE 68124
Murray Bernstein	227 Berkeley Place	Brooklyn, NY 11217
Armand DiFilippo	1825 S. Posewood St.	Philadelphia, PA 19145
Melvin Goldberg	290 Bolten Road	E. Windsor, NJ 08520
James Gordon	MRC, Box 37-B	Bangor, ME 04401
Jim Korn	77-A Miguel St.	San Francisco, CA 94131
Paul Louks	10475 Tittabawassee	Freeland, MI 48623
Michael Rosen	9256 Cloisters West	Richmond, VA 23229
Robert Taylor	189 Inlet Ave.	Manahawkin, NJ 08050
Gary White	Box 96	Chanhassen, MN 55317
Roy Wilson	Route 1, Box 272-D	Harlem, CA 30814
Donald Woods	1131 Chautauqua Blvd.	Pacific Palisades, CA 90272
William Zumstein	c/o AID, 823 Commerce Drive	Oak Brook, IL 60521

## Renewals:

Richard N. Allen, Arthur Amorin, Jim Brann, Tim Cronin, Robert Dally, Larry Class, John Griffiths, Dave Hascall, Jim Hopkins, George Jensen, Leonard Jozwiak, Michael Lapinski, Rolland Lindblade, Andrew Mahoney, David McBride, Fred McCormack, Terry Morris, Gordon Nelson, Guy Orden, John Pilger, Kevin Slater, William Smith, Steven Sprachman, Ralph Strobel, Martin Theil, Alphonse Tobia, Mel Wilson.

## Rejoins:

Roger Bortree-28 Glengarnock House-Hollyrood Park-Liverpool, NY 13088  
Les Coins-Box 3837-Shreveport, LA 71103  
Paul Kalisz-2321 Powell Ave.-Bronx, NY 10462

## Address Changes:

John Czarnomski-378 S. 1300 E.-Salt Lake City, UT 84102  
Cuy Kroger-919 3rd Ave. S.-Denison, IA 51442  
Dr. Joel Rosenberg-10 Van Horn Court-Thornhill, ON L3T 5R1  
John Sulak-350 Congress St.-Troy, NY 12180  
David Walcutt-1521 Rutland #7-Houston, TX 77008  
Wayne Wesolowski-209 Glenview-Elmhurst, IL 60126  
David Wurl-Route 2, Box 5A-Stratford, WI 54484

## Renewals Due in August:

Fr. R.E. Ammons, Jim Ayers, Frank Balchick, Ron Bennett, Alex Berman, Roger Besch, Walter Chmara, Roosevelt Crawford, Al Ellis, Richard C. Evans, Joe Fela, Paul Caines, Steven Grimm, David Hammer, 1Lt. Michael Hollis, Robert Kramer, Robert Lantridge, Jr., Albert Lobel, J.O. Mallinson, David Nordmann, John Parillo, Paul Petosky, Robert Ross, Don Ruland, Mark Saran, Lloyd Scott, Richard Turcsany, Barry Wallner, Paul and Dave Wardell, Jim White, Craig Willard.

New member ARMAND DI FILIPPO is a 32 year old banker who's interested in FM, TV, PSB, SW, BCB and utility DX. His DX club memberships are many: RCMA, NAEWA, SPEEDY, ASWLC, NRC, NNRC, SDDXC and IRCA. He joined as the result of a mailing to NASWA members. Armand's gear includes a Luxman T110 FM tuner with an SCA adaptor and a Bearcat portable scanner.

A member of NASWA and NRC, MELVIN GOLDBERG makes a living as a court clerk. He's into SW and FM-TV DX, and uses a Panasonic RF-220 and a Bearcat 210.

Our Maine man this month is JAMES GORDON. He DXs with a Panasonic RF2000 and a KLH stereo. James is a member of NASWA and DXs the SW and FM bands.

Wolverine state member PAUL LOUKS is a 19 year old student. He's into FY, TV and 2 meter amateur DX. Gear in his shack includes a Sansui 9090 connected to a Finco FM-4C and a Sony KV-1510 TV. He heard about the club in Communications World magazine. He says, "I hope my membership will help me to enjoy one of my past hobbies to a greater extent."

MICHAEL ROSEN is a fourth year medical student. He uses an omni-directional TV/TW antenna because he lives in an apartment, and he uses a Jerrold preamp for both bands. He heard about the club while listening to skip on 27 meters.

From last year's mass mailing to NRC members we're happy to welcome GARY WHITE into the club. Gary is a computer engineer who enjoys BCB and TV IXing and uses a 12" Sony TV.

New member ROY WILSON is a radio operator for the Georgia Department of Transportation, which has eight base stations on 47.30 (for you PSB folks). He's interested in almost all of the IXing bands and belongs to IRCA, NRC and WCA. He uses a Sharp multi-band portable receiver and an RCA TV.

A high school senior, DONALD WOODS enjoys DXing the BCB, SW, LW and VHF bands. He's a member of NRC, and uses a Bearcat 250 with a Radio Shack tri-band ground plane and a Sears TV.

### Tidbits.....

Leading off this month, we have information on upconverters from Roger Bunney in England via member Peter Sawatzky: "The unit is basically a small box into which your VHF aerial is fed (input coverage is 40-250 MHz) and out of the socket will come the same information but converted to a higher frequency at UHF, thus channel A2 will be tuned in via the converter and your UHF TV at around channel E31 (about A27). So whatever is received at VHF is changed in frequency only, the signal content remains the same. So there will be no problems, apart perhaps with resolving BBC on 405 lines which uses a vastly lower line speed and a + going video signal. I have one of these units here and I can resolve weak MS OK, so it's ideal for weak fringe work. The problem is that it is made for our main voltage of 240V AC. I have been in touch with a friend at South West Aerial Systems and in turn he has investigated the supply of these, but for 120V AC. He is advised by the makers that none are available other than for 200-250V AC. So if you want to use one then you will need to get a step up transformer or simpler an auto transformer. They are by UK enthusiast standards expensive. However, South West has agreed to supply on a 1 off basis only at the below retail price of 35.20 pounds (about 75 dollars-jz) inclusive of postage and packing. However, if you can get other WTFDA members interested then an order of 5 will total 133.50 pounds inclusive of postage, a substantial reduction. It is important however that any money order for the equivalent sterling rate in dollars is made out to a London bank/clearing house and not to a North American bank, this to avoid delay in sending the goods and also to avoid payment of bank charges and commission. As I say, they are by our standards expensive but perhaps this is a reasonable price. 35 pounds is about half the average weekly wage in the UK! Do not send any money to me but to: South West Aerial Systems, 10 Old Boundary Road, Shaftesbury, North Dorset, England. I hope that these will be the answer to coverage below A2, etc. My experience has been they are generally quite good, although I would suggest that preamps over +20dB gain ahead of the unit are avoided." Now a few comments from Peter: "I obtained this information when I recently wrote Roger concerning the trans-Atlantic Es which he received and which John Combs of Orlando and others were trying to identify. In a note to him I mentioned some interest in an upconverter which John Combs had mentioned to me in a telephone call." On his further experiments with microprocessor IXing, he writes, "The hardware for starting on my computerized IX project is now set up and I am beginning with the development of programs. In writing my first program and not getting the expected results, I can see that this is going to be far more difficult and time-consuming than setting up the necessary hardware. Even hardware-wise, though, there is still much to be accomplished, as I still need to purchase a dedicated 5V supply, develop a tape interface, and buy an AJ-15 tuner through which to put the IF from the varactor tuner in my system."

IRCA is coming out with a new publication that should be of interest to FF IXers. It's the IRCA Almanac, which includes lists of network affiliates, sports networks, syndicated programs, and several articles on broadcasting history and the current state of the industry. For a copy, send \$5 to IRCA Goodie Factory, P.O. Box 17088, Seattle, WA 98107.

Many thanks to member Glenn Hauser for publicizing our EFM in his monthly magazine, Review of International Broadcasting. RIB is a must for any serious SW DXer, and is helpful to those who work other bands. For a one year subscription send \$12 to Review of International Broadcasting, c/o Glenn Hauser, University Radio WUOT, Knoxville, TN 37916.

Remember, Don Erickson is still offering a pre-publication discount on the World Radio-TV Handbook. For more info, see last month's Mailbox.

See y'all in Baltimore.....73.....jz



# EDUCATIONAL FM UPDATE

PART 2

by Mike Dorner, Jr.

Last time we looked at the tremendous overturn in the present educational FM radio band by the FCC's new laws limiting ten-watters presently in operation and forbidding any more ten-watt applications. This month we'll look at the new time requirements: all stations must operate 36 hours per week and 12 hours a day, or share time.

There has been no little confusion over this matter, due to the FCC's ambiguous bureaucratess that seemed to contradict itself. At the beginning of its rule making, the commission called for all "noncommercial educational FM stations, regardless of power, to operate at least 36 hours per week . . . and . . . a sharing of frequencies when stations are operated at least 12 hours per day." Later, the report called for a minimum of 36 hrs/week, with at least 5 hrs/daily on six days of the week. On a close call, the FCC decided not to demand stations stay on the air during school vacations, and "no additional hours will be required to compensate for vacation periods." But 15 paragraphs later, the FCC required stations that wish to avoid time-sharing arrangements to operate at least 12 hrs/day, six days of the week during the entire year or, if it observed vacations (three months maximum) it must operate enough hours during school term so that, if these were averaged out over the whole year, it would meet the time sharing test.

A month later the FCC issued a clarification: it meant to say that (1) any station operating less than 36 hrs/wk would be in trouble; (2) all stations must operate a minimum of 5 hrs/day, six days a week, but they were open to time-sharing arrangements against their will, unless they operated 12 hrs/day, six days a week, and, if they took vacations, they must operate more than 12 hrs/day, six days a week, in order to meet this demand on an averaged basis. These time requirements took effect last January 1st; this coming January 1st, would-be applicants may file for facilities in which the minima are not met.

These FCC rules, when first proposed, had evoked storms of protest. Most stations are low-budgeted, or run by volunteers. Economic factors of staff are urgent. Further, many universities require supervisory personnel and security men on duty during on-time operations--thus a major increase in expenditure, to which must be added program rentals in many cases, energy costs, etc. Some colleges have highly transient student bodies during the summer; skilled radio people are away at work or travel. High schools have similar problems and many state laws require teaching personnel on duty for any students' activities. Further, high school students are capricious and even more likely to tire and not show for work. Many saw the rule as a CPB pover play to force those stations not under its control off the air through subtle economic factors.

Given the increasingly scarce frequencies, however, many as well as the commission saw the need for some minimum operational requirements. Some suggested reductions during vacations; or the gradual incrementation of hours over several years; or proportioning hours to city size, or the type of audience--citywide or campus. Others proposed the exemption of ten watters, others the same, except in city areas, or in high school cases, or to the size of the school. The FCC rejected them all, citing the involved workload in keeping tabs of all these factors. Instead, it opted for the early commercial FM minimum of 36 hrs/wk, leaving open the possibility of raising the minimum as non-commercial FM continued to grow.

(continued on page 39)

# COME TO BALTIMORE

## AUGUST 3·4·5

# 1979 WTFDA ANNUAL CONVENTION

The 1979 WTFDA Convention in Baltimore should prove to be a most exciting event for VHF and UHF DXers! Convention hosts Tom Yingling, Don Blevins, and Gary Mullis are planning a program that should provide something for everyone, including the PSB DX enthusiast!

As usual, there will be plenty of time for the traditional gab sessions, especially for those who arrive early. You'll have a chance to meet and talk with many of your fellow FM, TV, and PSB DXers. Here's a great opportunity to listen to DX tapes, view DX photos and slides, and have a look at many QSL collections. If you're new to the DXing hobby, it's also a good time to get advice on DX equipment and technique from veteran DXers.

The schedule of events, now being set, will include a tour of WMAR-TV (channel 2), as well as a provocative lecture on the evolution of police PSB communications, a demonstration of the Bearcat 250 programmable VHF/UHF scanner and its inter-relationship to TV and FM DXing, and more! There'll be free literature on DX equipment, and WTFDA club supplies should also be available for those who wish to purchase them.

A representative from Maryland Public Broadcasting will speak on the history and evolution of public broadcasting in the state. MPB owns and operates WMPB-67 Baltimore, WCPB-28 Salisbury, and the 5 million watt WAPB-22 at Annapolis. Also John Pilger will speak on PSB communications in medical rescue work and the new system just put into use in the metropolitan Washington area.

On Saturday evening, the traditional banquet will be held. Our hosts are planning a hot buffet, and it should be super, as our convention site is well known for superior cuisine and exceptional service, as it is owned by a famous Baltimore restaurateur.

The WTFDA club business meeting will be on Sunday morning, with an open discussion about the club. This is your chance to put forth suggestions about the operation of WTFDA. We need your input, and this is an excellent opportunity for your comments and criticisms.

While the WTFDA Convention is going on, one of Baltimore's great annual events will be in progress--the Italian Festival at the Inner Harbor, featuring Italian food of every description, and a great display of crafts from Baltimore's Italian neighborhood. It's one of America's best ethnic cultural festivals.

Our convention is being held at Meushaw's Motor Inn, Security Boulevard at Baltimore Beltway Exit 17, easily accessible from the interstates and downtown and suburban Baltimore. Meushaw's is situated on a hilltop, near the main headquarters of the United States Social Security Administration.

The convention registration fee is \$14, payable in advance or upon arrival. To register, use the Convention Registration Form in the May issue. Please state whether or not you plan to stay at the motel. Rates will be \$19.50 per day for a single, \$23.50 for a double. Be sure to give the dates that you want the room reserved for. For those staying earlier or later than the convention dates, the room rates will be an additional \$2.00.



There's lots to do and see in the Baltimore area. Probably the northern-most city with true "southern hospitality", it's a world port, full of history. Historic Fort McHenry highlights any trip to Baltimore, and scenic cruises are available aboard the Baltimore Patriot and the M.V. Port Welcome --great for family sightseeing! Don't forget to take in the many sights and sounds of Washington DC, just 40 miles away by car or 55 minutes by Greyhound, Trailways, or Amtrack. For those who have the Navy in mind, the U.S. Naval Academy is located just 25 miles from downtown Baltimore--and you can cruise there on the M.V. Port Welcome!

Baltimore is served by most major U.S. airlines, Greyhound and Trailways interstate bus service, and Amtrack railroad service. Meushaw's provides free airport courtesy car service between 10 a.m. and 6 p.m. for groups of guests.

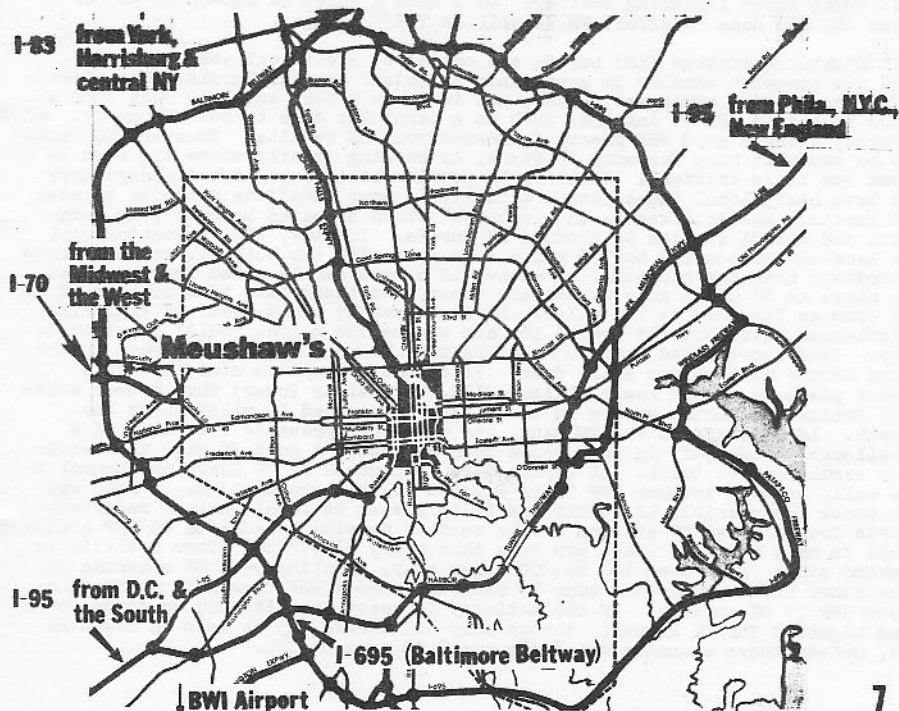
How to get there:

North...take I-83 south to I-695 towards Glen Burnie...exit at Security Blvd. (exit 17), go west on Security Blvd. (marked Woodlawn) to Meushaw's.

South...North on I-95 or Baltimore-Washington Parkway to I-695 north towards Towson. Exit at Security Blvd. (exit 17). Go east (marked Woodlawn) to Meushaw's Hilltop.

West...East on I-70 or US-40 to I-695 north towards Towson. Take exit 17, go east (marked Woodlawn) to Meushaw's.

East...West on I-695 towards Towson. Exit at Security Blvd. (exit 17) and go east (marked Woodlawn) to Meushaw's.



# TECHNICAL TOPICS



Q: "Is meteor scatter DX possible on rabbit ears?"

A: Yes, but not much. Attempting to DX meteor scatter (MS) with rabbit ears will produce only limited results. You'll note more meteor bursts on an FM receiver than you will on lowband (channel 2-6) TV using rabbit ears, but that's due to the much greater sensitivity of a good FM receiver. Rabbit ears, at best, have no real gain--zero dB (or even less) when compared to a half-wave dipole, the standard against which antenna gain is measured. However, if rabbit ears are all you can use for DXing, you still have a chance at MS DX, especially if you concentrate on it during the best of the major meteor showers, such as the Perseids in late July through mid August, and the Geminids in mid December. In general, the more antenna gain you have, the better your MS results will be; however, there are usually some very strong bursts during the best part of the showers (shower peaks) which can be seen very briefly on lowband TV with rabbit ears.

Q: "Is it possible to see meteor scatter on the UHF TV channels with good equipment?"

A: Consider this: in December of 1976, veteran TV DXer Bob Cooper, Jr. saw what was unmistakably a two second meteor burst on channel 16, CCI only (the report appears in the February 1977 VUD, page 28), after about 27 years of TV DXing, and many years of looking for exotic forms of DX, such as some kind of sign of MS on UHF. So while UHF MS may be possible on TV using an excellent DX setup including a parabolic dish antenna and low-noise, high gain preamps, it is an extreme rarity. It should be noted that it is still possible to note burst-type reception from the lightning scatter (LS) mode of DX propagation, and LS bursts have been confused with MS by some DXers on the UHF TV channels.

Q: "What about lightning scatter? Do I need a super DX set-up to see or hear it, and does it affect FM as well as TV?"

A: Lightning scatter (LS) bursts are caused by electrical storm activity, and are somewhat similar in appearance to meteor scatter bursts. The effects of LS seem to be strongest on UHF, and it doesn't take anything more than a good high-gain UHF TV antenna, such as a parabolic dish to note it on TV. Of course, using a good UHF preamp increases your LS results. However, LS tends to be somewhat rare for many TV DXers, as knowing exactly where and when to look for it is critical. Contrary to popular belief, you don't always have to have heavy local thunderstorm activity in your immediate vicinity to note LS bursts. All it takes is an electrical storm situated between your location and the DX station to produce LS bursts. Ideally, the DX station will be located between 200 to 300 miles from you, with the heavy electrical storm somewhere near the midpoint. However, LS bursts can be noted from stations as close as 80 miles away at certain times, and there have been reports of LS DX from as far away as 700 miles. LS is caused by cloud-to-cloud lightning discharges which briefly ionize the air around the actual "bolt" of electricity. This short-lived ionized area scatters VHF and UHF signals much in the same manner as a meteor trail does. It should be kept in mind that this takes place at a much lower altitude (30,000 feet or lower) than meteor scatter ionization, which occurs in the E layer at around 50 miles above the earth. LS does affect the FM band, and of course presents even more of a challenge to identify in that range than MS does. A good FM yagi and receiver should do the trick. LS bursts have been noted by TV DXers on channel 2 as well, so even lowband VHF TV is subject to this propagation. A good way to check for possible LS conditions is to listen to local weather radar reports from a local TV station or the weather service broadcasts on VHF available in many regions. When you know that heavy electrical storm activity is taking place in an area 100 to 200 miles away, pointing your DX antennas at the storm area may produce some LS results. Check UHF first, if you have a good UHF TV DX antenna. If the activity is heavy, results may be found on FM and highband VHF TV as well, though only CCI bursts may be seen on highband TV, unless those channels are "wide open" in your region.



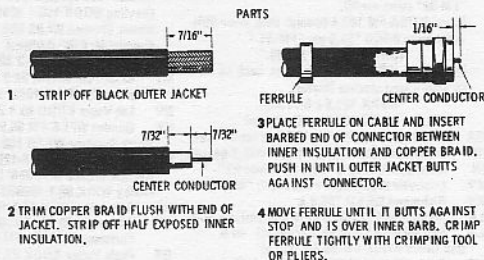
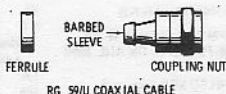
Q: "Why don't TV and FM DXers all use 300 ohm open-wire lead in? I understand this has the lowest losses of any kind of lead in made, and is great for UHF especially."

A: The specs for open-wire lead in, which is sometimes called open line, always look much better on paper than they turn out to be in practical use. To some extent, this is true of all types of lead in; however, open-wire lead in has some major disadvantages. There is no insulation on the conductors, the only thing between them is air, which is ultimately the best insulating material to use between them--but only under ideal conditions. In order to maintain the 300 ohm impedance, the conductors must at all times be kept at the correct relative spacing, usually about  $\frac{1}{2}$  inch. In open-wire lead in, this is done with spreaders every six inches or so. This means that this type of T-line has to be very carefully installed. Installation is made even more difficult by the fact that it should not be allowed to bend in a sharp curve, and should be kept well away from metal, with the use of specially-made standoff's often necessary. It is very susceptible to corrosion, and if placed near vegetation, can be rendered ineffective by nothing more than a wet leaf across the conductors! In spite of all these disadvantages, you might want to experiment with it, if you are very careful about how you install it, because the specs are very inviting: often less than 0.5 dB loss per 100 feet at 100 MHz, and only  $\frac{1}{4}$  dB loss for the same length at 1000 MHz!

Q: "Is there some other way to install coax without having to use F-type connectors? I have a lot of trouble using them."

A: Most TV and FM signal accessories such as traps, preamps, splitter/combiners, etc., that are of interest to the TV/FM DXer are now designed to be used with coaxial cable. Thus,

you really can't get along without F-type connectors these days, and because of the convenience they offer, you really should take time to learn how to install them properly. One way to do this is to practice on leftover pieces of any coax you might have lying around in a junkbox. For RG-59U type coax (commonly used by FM DXers, and by TV DXers for VHF-TV), refer to the illustration at right provided by Finco. By practicing on a few short lengths of coax, you can soon become skilled at using F connectors--and you'll have some useful patch cables made for yourself, too. These can be quite handy during hectic DX openings, when you might want to experiment with connecting and disconnecting various traps and similar items in and out of your feedline. Make sure that you use F connectors properly, as a bad job can cause a short in the coax, or drastically change the impedance of the line, resulting in unnecessary signal loss through mismatch. When properly installed, F-type connectors help maintain the high shielding properties of the coax T-line.



Q: "What's wrong with using RG-59U for a UHF TV DX set-up?"

A: RG-59U losses are much too high to be acceptable to most TV DXers on UHF, even when using a preamp. For serious UHF TV DXing, use aluminum shielded CATV type coax (.412 or similar), or lower loss conventional coax such as RG-11U. RG-59U is adequate for use at VHF frequencies, but try to keep the length of run down to 50 feet or less. Don't use coax for UHF unless you are either using a UHF preamp, or must run your T-line through or over metal obstructions.

(continued on page 23)



# FM NEWS

BRUCE F. ELVING, PH. D., EDITOR  
18 1/2 E. FIFTH STREET  
DULUTH MN 55805, U. S. A.

*Contributions Appreciated!*

## NEW

CO Paonia \*90.9 10 (990) N. Fork Pub.R.  
 MD College Park \*88.1 10 U of Maryland  
 MS Heidelberg \*91.3 3000 h,v; 300'  
 OK Claremore \*99.3 10 watts (not 13000;  
 365' as listed from FCC—budget too low for  
 such a power, I am second-guessing)  
 OK Oklahoma City \*88.9 3000 h,v; 300' g;  
 OK Christian College  
 PA Jersey Shore (near Lock Haven) 97.7  
 3000 h,v; 300'  
 TX Pampa 100.3 47300 h,v; 200' m  
 VA Luray 103.9 3000; 11'; k  
 AT Grande Prairie CHFA-5 90.5 5000 h,v; 678'  
 CBXP 102.5 10000h,v; 842'  
 AT Hinton (53-23-49; 117-42-30) CHFA-4  
 100.7 85 h,v; 278'; 31, 87 km covers  
 AT Lethbridge 91.7 c 100000; CBR-FM relay  
 BC Dawson Creek CBF-7 103.5 720 h,v;  
 969'; French language; mc music.  
 BC Ocean Falls (52-21-20; 127-41-20) CBXO  
 92.1 6 watts; .307' [386'  
 NS Liverpool (44-03-59; 64-43-20) 94.1 50000/  
 ON Attawapiskat (52-55-35; 82-25-25) CBCA  
 101.5 36 watts; 126' C-BCB (AM) relay  
 ON Belleville 94.3 50000; CBF-FM  
 ON Car Lake (51-42-10; 90-48-22) 28 watts  
 (rounded to 1 w) 90.1 ethnic/Indian  
 ON Fort Albany (52-12-15; 81-41-40) CBCI  
 102.5 1000; 117'  
 ON Peterborough 103.9 18000; CBF-FM

## DELETIONS

CO Glenwood Springs KCMK \*90.5  
 PQ Sept lies CBSI 95.7 (replaced by CBSI 98.1)

## FORMATS/NETWORKS

AL Mobile WKRG-FM 99.9 d (discos); G-100  
 AR DeQueen KDQD-FM 92.7 S; ON AIR, 3000  
 h,v; 220'  
 FL Bonita Springs WLEQ 95.9 d (from r)  
 Lehigh Acres WSWF 107.1 d (from m) "107  
 Rocket"; Live Oak WQHL 98.1 k (from m);  
 "FM-98" strict nonID.  
 Miami WQBA-FM 107.5 Spanish 50% disco 50%  
 Tallahassee WFSU \*91.9 p, "FM-91."  
 WBGW 98.9 rd, "FM-99."  
 Winter Park WFLR 98.9 r (not rc); back on the  
 air after a long absence (hiatus).  
 WPRK \*91.5 c (not pc)  
 WLOQ 103.1 m (from mc)  
 GA Hawkinsville WCEH-FM 103.9 k; has vertical  
 IN Greencastle WJNZ 94.3 r (from mk) 2.94, no \$  
 IN Indianapolis WDFG \*90.9 d, "Disco-91"  
 KY Louisville WGSN 99.7 r (from m); "JJ-100"  
 KY Richmond WEKU \*98.9 c  
 LA Alexandria KSLI 96.9 C, m (not rm); no SCA  
 LA Bastrop KTRY-FM 94.3 r (not m) no \$.

Oak Grove KWCL-FM 97.7 k (not g)  
 ME Calais WDDY-FM 92.7 m (from k); Mutual  
 Portland WHCS 97.9 Mutual; still  
 Skowhegan WYOS 105.1 (but belongs on 106.7)  
 (not rp) MI Detroit WABQ 99.9 rp, h,v; 96'  
 MN Litchfield KLDF-FM 95.3 S (AP Audio)  
 Rochester KRDC-FM 106.9 r (from m)  
 St. Peter KRFI-FM 105.5 md (discos after 6 pm)  
 MO Mexico KWWR 95.7 k (from m)  
 MO St. Louis KS KKSS 107.7 d, "Studio 108."  
 NJ Canton WNNM 101.7 l, has vertical  
 NY Albany WYOM 100.9 disco (d)  
 NY Glens Falls WYLR 95.9 r, \$, "Stereo Y-96."  
 WNIQ 107.1 r, "107-Q."  
 Herkimer WYUT 92.7 r, Y-93 ON AIR: 3000  
 h, v; 300'; stereo?  
 Troy WFLY 92.3 r (not rm)  
 PA Middletown WMSS \*91.1 (reported on 91.7,  
 but 91.1 is what they are officially listed for)  
 disco, power changed to 125 watts h,v; -105'  
 SC Charleston WPXI 95.1 Y  
 WKTM 102.5 no Y

MD Worton WKHS \*90.5 rd -no Stereo.  
 TN McKenzie WKTA 106.9 k (from kg)  
 TX Austin KUT \*90.5 PZ (from FM)  
 LaGrange KMUZ 104.9 m (from k)7 has v  
 VT Rutland WHWB-FM 98.1 k (from rm);  
 S (AP Audio), has vertical  
 VA Warrenton WORA 94.3 m, \$ C  
 ON St. Catharines CKTB-FM 97.7 k (was mr)

## FACILITIES

AZ Scottsdale KOPA-FM 100.7 100000 h,v;  
 1840'  
 AR Conway KUCA \*91.5 1500 h,v; 58'  
 Jacksonville KEZQ 100.3 76000 h,v 1195'1  
 CA Angwin KANG \*89.9 560 h,v; 3310'  
 Berkeley KBLX 102.9 (calls changed from  
 KRE-FM) 6600 h,v; 1280'  
 CA Delano KDNO 98.5 50000 h,v; 330'  
 CA San Francisco KSXF 103.7 7800 h,v;  
 1470'  
 CA Twentynine Palms KQYN 95.7 16000 h,v;  
 -79' (significant increase in vertical power).  
 CO Denver KBPI 105.9 900' (100000 h,v)  
 CO Ignacio KSUT \*91.3 430 h,v; 19'  
 FL Miami WMTI 93.1 100000 h,v, 93000 v  
 (directional); 460'; Delby  
 FL Winter Park WLOQ 103.1 195' (3000h,v)  
 IL Chicago WNIB 97.1 5700 h,v 5500 v (directional)  
 1190', protects WKZN-FM 96.9.  
 IN Indianapolis WFMS 95.5 21000 h,v; 710'  
 reduces coverages to 32, 71 miles.  
 IN Richmond WQLK 96.1 50000 h,v (350')  
 IN South Bend WNDU-FM 92.9 12000 h,v; 880'  
 IA Council Bluffs KQKQ 98.5 530' (100 kw)  
 Storm Lake KAYL-FM 101.5 87000 h,v,  
 51000 v (400'); to add Stereo  
 KS Arkansas City 106.5 500' (100000 h,v)  
 KY Hodgenville WKMO 106.3 1500 h,v; 400'  
 Hopkinsville WHOP-FM 98.7 100000 h,v; 295'  
 Lexington WLP-AM 94.5 6400' (50000 h,v)  
 LA Baton Rouge WRKF \*89.3 51000 h,v; 410'  
 MA Boxford WBMT \*88.3 710 h,v; +19'  
 MI Detroit WCZY 95.5 100000 h,v; 430';  
 and reduces coverage to 34, 78 miles.  
 Mount WOOD 100.1 16500 h,v; 390'  
 Grayton Clemens WLBS 102.7 40000 h,v,  
 directional; 410', d (discos)  
 MO Branson KIRK 106.3 3000 h,v; 210'  
 MT Great Falls KAAK 98.9 26000 h,v 500'  
 Missoula KYLT-FM 100.1 3000 h,v; 200'  
 NV Las Vegas KUDO 93.1 25000 h,v; 16'  
 NY Dundee WFLR-FM 95.9 600 h,v; 600'  
 North Syracuse WEZG 100.9 235' (3000h,v)  
 NC Boone WASU \*90.5-120', not +120'  
 Kinston WGAM 97.7 250' (3000 h,v)  
 Shelby WXIK 96.1 100000 h,v; 285'  
 ND Bismarck KDDY 94.5 1090' (100000 h,v)  
 OH Akron WAPS \*89.1 1700 h,v; 70'  
 Portsmouth WXNT-FM 99.3 900 h, v; 490'  
 OK Pauls Valley KGOK 97.7 3000 h,v (300')  
 Ponca City KPNC 100.9 385' (3000 h,v)  
 Turgis KRCS 93.1 100000 h,v (1060')  
 Dayton WNFN 104.9-198' (not +198')  
 Gallatin WVKX 104.5 100000 h,v; 700'  
 Red Bank WSIM 94.3 2700 h,v; 330'  
 TX San Antonio KTFM 92.7 100000 h,v,  
 70000 v; 670'  
 VT Stowe WFRB 101.7 3000 h,v; 85'  
 VA Norton WNVFA-FM 106.3 700 h,v; 560'  
 WA Bremerton KBRFO-FM 106.9 1380' (not  
 2380'); 30000 h, [1320']  
 WA Seattle KNHC \*89.5 1500 h, directional/  
 WI Appleton WAPL "-FM" 105.7 100000 h,v;  
 420'  
 WI Eau Claire WUEC \*89.7 640 h,v; 630'  
 Superior WSSU \*91.3-72' (940 h)  
 PR Aguadilla WIVA 100.3 15000 h,v (1000')  
 Mayaguez WKJB-FM 99.1 13300 h,v; -10'  
 Ponce WOOI 93.3 14500 h,v; -225'  
 Vieques Island WZVS 98.9 950' (50000 h,v)

AT Courts-Milk River 90.9 720 h,v; 63 meters  
 Edmonton CKO-FM 101.9 511' (100000 h,v)  
 Lake Louise CJAY, 97.5 1 w DA 2660'  
 Red Deer CKRO-FM 98.9 737' (69000) \$, m  
 BC Burns Lake CBX8 99.1 DA  
 Chase CFM-8 93.1 140 DA, 460'  
 Dawson Creek CBKQ from 93.7 to 89.7,  
 1100 h,v; 949'  
 Invermere CFWL 107.1 1 watt DA (not 910 w);  
 2398', 4 miles primary; 25 mi secondary  
 Pritchard CFFM-7 (not CFFM-9) 106.3-1185'  
 (nineteen watts)  
 Smithers CBRS 97.5 directional  
 Vanderhoof CBRV 96.7 "  
 Vancouver (no frequency assigned) 100000  
 h,v; 2000'; g; Ralph Jacobson grant  
 CBUF 97.7 46000 h, DA, 1861'  
 CBU-FM 105.7 1861' (50000 h DA)  
 Vernon CBYV 105.5 1900 h,v; 145'  
 MB Brandon 92.7 100000 h,v; 912', Stereo  
 Winnipeg CKO-FM 97.9 (to change frequency)  
 Not on air; 516' (100000 h,v)  
 NB Fredericton-Saint John CBZ-FM 101.5 v  
 NF St. John's CKO-FM11 101.9 510' (100kw hv)  
 105.9 45600 h,v; 725'  
 NS Halifax CBHA 90.5 no directional antenna  
 ON Brockville CB0F-7 102.1 330' (2500 h,v)  
 104.9 282' (3000 h,v); \$

Sault Ste. Marie CJOQ 104.3 493' (100000)  
 Timmins CFTI 92.1 502' (16670 h,v)  
 PQ Asbestos-Danville 90.1 3000 h,v; 286'  
 Duplinter CHL-5 100.1 130 v (H, DA), 634'  
 Fort Chimo 90.1 11.2 meters (1 watt)  
 Lac Megantic 93.7 4400 h,v; 589'  
 Mount-Laurier 96.3 38000 h,v; 415'  
 Sherbrooke 101.1 100000 h,v; 547'  
 Victoriaville 96.5 100 h,v; 393'  
 SCA (67 KHZ) WJLWJuring WVRM 102.7  
 GA Augusta WZZW 103.1 no SCA heard  
 WAUG 105.7 " " " Jwas  
 Elberton WWRK 92.1 no SCA heard iMutual  
 NY Newark WHBI 105.9 no SCA recently;  
 main carrier said to be changing call letters  
 and will go Spanish when that happens.  
 NY Albany WHIR 103.1 music (103.1,  
 SC Honza Path 1T (AP Radio News) WR1X /  
 TX Fort Worth KESB 93.10 (Physicians Radio)  
 KPLX 99.5 1X (telemetry noise)

## STEREO

CA San Luis Obispo KCPR \*91.3, has vertical  
 IL Aledo WRMJ 103.5, has vertical, I  
 IA Creston K1TR 101.7, has vertical  
 LA Bastrop KJBS 100.3 d, music SCA, nonID:  
 "KJ-100."  
 Franklin KFRA-FM 105.5 no SCA heard.  
 Jena KJNA 99.3 MI Detroit, WMZK  
 NE Kearney KOVF \*91.3 97.9  
 NY Albany WAMC \*90.3  
 OH Lancaster WHOK-FM 95.5, drops music  
 SCA (now carried on SCA of WRMZ 99.7  
 Columbus Ohio)  
 Wapakoneta WAXC 92.1, no vertical  
 PA Mechanicsburg WQVE 93.5  
 TX Tyler KROZ 92.1 KYTLE 93.1, r  
 WA Richland KJMT 94.9, r  
 WI Merrill WJOT-FM 93.5

## NONIDENTIFICATIONS

DC Washington WKYS 93.9, Disco-93 (not  
 Disco 94, incorrectly).  
 IL Alton WABC, Disco-100  
 KY St. Matthews /NUU 103.1 U-103  
 IL Decatur WSDY-FM 102.9 FM-103  
 LA Shreveport KROK 94.5 Super Rock 94  
 MD Morningside WPGC-FM "PGC" not Stereo  
 95 and one-half.  
 FL Boca Raton WKOS 99.9 Kiss  
 Gainesville WGVL 105.5 FM Quad Ship  
 Holiday WHBS 106.3 106% Stereo?



FL	Vero Beach 167.1 53.5 FM-93	PQ	Blanc Sablon 102.7 CBMS 100 (DA) 333'	KY	Harrodsburg WBNB-FM 99.3	
MU	Springfield KTXR 101.5 FM-101		107.1 CBSI-21 100 (DA) 333'		Leitchfield WKHG 104.9	
NY	Southampton WSBH 95.3 Stereo 95		Camp LG1 (53-41-09; 78-33-54) 100.7 CHL-G-		London WFTG 5.5 FM 102.9	
OH	London WZ WSYX 106.3 FM-106 (strict)		8, 8 watts (DA); 176' (applies to move to 95.1)		Louisville WLRG 103.9	
TX	Houston KRLY 93.7 Disco 94		Chicotites (not yet Saguenay) 96.7 CJAB		Whitesburg WXXQ 103.9	
VA	Arlington WAVA 105.1 FM-105, pr		320'; 28600, DA.	LA	Baton Rouge WRKF *89.3 650' (100000)hv	
WI	Port WOODC 100.1 C-100		Dulbeau 93.1 CBJ-3 (from CBJ-1)		Donaldsonville KSMI 104.9	
ON	Tillsonburg CKQT-FM 101.3 Stereo 101		Harrington Harbour 95.5 CBMU 210h,v; 263'		New Orleans WWL-FM 101.9	
	Windsor CJOH 88.7 Easy 88; CKLW-FM 93.9		100.5 CBSI-15 200 h,v; 313'	ME	Portland WMEA *90.1	
	CALL LETTERS Country 94 FM.		Iles Madeleine 95.3 CBVM 4500 h,v; 720'	MD	Cumberland WKLA-FM 106.1	
CA	Sacramento 96.9 KROY-FM (KROI), has		La Tabatiere 100.1 CBSI-19 200 h,v; 267'	MA	Boston WERS *88.9	
	vertical polarization		101.5 CBMT 215 h,v; 488'		Lowell WSSH 99.5	
FL	Jupiter 96.7 WCEZ (WRYZ-FM); new for-		Manouane CBFA-1 103.5 22 h,v; 83-82'		North Adams WJWW *91.1	
	mat said to be all m, but one reporter said		Obedjivan (48-39-21; 74-56-19) 92.9 CBFA-2,	MI	Ludington WKLA-FM 106.3	
	he heard k on it, but before WCEZ call		32' (83 watts)		Owasso WQAF-FM 103.9	
	letter change.		Old Fort Bay 91.7 CBSI-19 42 h,v; 199'		Ypsilanti WEMU *89.1	
	Melbourne 106.3 WCIF		95.9 CBMV 43 h,v; 124'	MN	Marshall KMHL-FM 100.1	
HI	Honolulu *88.1 KHPR		Quebec 93.3 CJMF 70800 h,v; 1104'		Willmar KQIC 102.5	
ID	Grangeville 92.7 KORT-FM		Riviere St-Paul 103.1 CBSI-20 35 h,v; 278'	MO	Gulfport WTAM 102.3	
ID	Oronofino 95.3 KLER-FM		104.3 CBMY 36 h,v; 253'		WROA-FM 107.1	
IL	Granite City 106.5 WWWW (WGN-U-FM), r		St. Augustin-Saguenay 102.3 CBMX 237' (17 w)		Oxford WOOB 97.5	
	(from k); has vertical polarization		107.3 CBSI-18 17 h,v; 267'		Tylertown WTYL-FM 97.7	
MN	Virginia WHLB-FM (WIRN)		St. Georges de Beauce 96.7 CBV-7		West Point WKBB 100.9	
MO	Bolivar 106.3 KBLR-FM (KLTB)		Sept Iles 98.1 CBSI (replaces deleted CBSI 95.7)		Yazoo City WJNS 92.1	
NC	Ashville 99.9 WLOS (WLOS*-FM")		36750 h,v; 784'	MO	Cape Girardeau KFMP 102.9	
TX	Bonham 98.3 KFYZ*-FM"		Tete-a-La-Baleine 103.5 CBSI-16 20 h,v; 69'		Carthage KRKG 104.9	
AT	Fort McMurray 99.3 CBXN 20200 h,v; 178'		Trois Rivieres 102.3 CIGE 11000 h,v; 820'		Columbia KCMQ 96.7, KFMZ 98.3	
	101.5 CHFA-6 20200 h,v; 178'		106.9 CBMZ 1326 h,v; 925'		Osage Beach KRMS-FM 93.5	
	Fox Creek (not Fort Creek; Fox Creek is		SA		St. Charles KCLC *88.1	
	located at 94-23-44; 116-47-18) 91.3 CBXV,		Bellegarde 91.9 CBKF-4 347' (4700)	NJ	Egg Harbor (City) WRDR 104.9	
	178' (38 watts)		Saskatoon 105.5 CBKS 486' (98000; \$)		Long Branch WRLB 107.1-still Spanish?	
BC	Aiyansh 102.3 CBYA 87 w (DA), -1271'		Zenon Park 93.5 CBKF-3 401' (1340 watts)		Newton WJL 103.7	
	Atlin 93.9 CFAT-2, -210' (3 watts)		NWT Hay River 107.3 CKHR 32 h,v; 180'		Upper Montclair WMSC *90.3	
	Casin Flats 97.3 CBYC 120 (DA); 787'		YT Jakes Corner 99.9 CFAT-1 1970' (16 watts)	NM	Zarephth WAWZ-FM *99.1	
	Cranbrook 101.3 CBRR 230 (DA), 3437'		THOSE ELUSIVE VERTICALS		Albuquerque KJWJ 100.3	
	Kamloops 96.5 CBUF-6 4750 h,v; 397'		All the stations below apparently have vertical,		Farmington KRYY 92.9, KRAZ 96.9	
	87.5 CHNL-FM 4300 h,v; 469'		in addition to the usual horizontal polarization.		Gallup KQVO 94.5	
	Kelowna 99.1 CBUF-2		This list obtained after comparing my printout with		Las Cruces KRWG *90.7	
	Kitimat 105.1 CBUF-5 160 h,v (DA); -918'		a commercial data-set.		Santa Fe KAFEFM 97.3	
	Lytton 102.3 CIAK (from CFFM-7)		AL		Binghamton WHRW *90.5	
	Masset 103.9 CBTM 85 h,v; 274'		Guntersville WTWX 95.9	NY	Elmira WLEZ 92.7	
	Port Clements 102.9 CBYB 90 h,v; 10'		Oneonta WKLD 97.7		Hyde Park WHVS 97.7	
	Prince George (no frequency assigned) CIOI		Ozark WOAB 104.9		Ithaca WEIV 103.7	
	3500 h,v; 63'		Phoenix KNIX-FM 102.5		Tucson WBPB 94.3	
	91.5 CBGK 100000 h,v; 1087'		Tucson KCEE-FM 96.1		Port Jervis WDLC-FM 96.7	
	95.5 CBUF-4 200' (130 w)		Yuma KTTI 95.1		Troy WRPI *91.5	
	Queen Charlotte (53-14-43; 132-00-47) 104.9		AR		NC	Asheville WBMU *91.3
	CBYQ 90 h,v; 416'		Camden KWEH 97.7		Buies Creek WCCE *90.1	
	Sparwood 97.9 CBY5 220 (DA); -658'		Mountain Home KTLO-FM 98.3		Clinton WRZ-FM 107.1	
	Terrace 95.3 CBTH 54 h,v (DA); 1463'		Rogers KAMD-FM 94.3		Jacksonville WXOR 105.5	
	96.9 CBUF-3 54 h,v (DA) 1463'		Ceres *89.5		Rocky Mount WRSV 92.1	
	Vancouver (frequency to be assigned) CJAZ		FR		Cedarville WCDR *90.3	
	52000 h,v (DA); 2084'; CKWX radio, j		Fresno KFRY 101.9	OH	Coshocton WBSB-FM 99.3	
MB	Brandon 99.5 CKSB-8 21500 h,v; 712'		Livermore KYKQ 101.7		Waverly WITD 100.9	
	Limestone (94-07-41; 56-30-33) 96.1 CHGG		Dakdale 95.1	OR	Youngstown S WYSU *88.5	
	8' (15 watts horizontal)		Vacaville KUIC 95.3		Gresham KMHD *88.5	
	Winnipeg 103.1 CKWG 100000 h,v; 361'; m		Woodland KSFM 102.5		Medford KBOY-FM 95.3	
NB	Richibucto 98.5 CBFA-11 (CBHM)		Aspen KSPN 97.7		Portland KGOB 92.3, KXL-FM 95.5	
NF	Marystown 90.3 CBNM		Boulder KBVL 94.7	PA	Bedford WAKM 100.9	
	Port au Port 94.3 CBFA-16 (CBFN)		Groton WSUB-FM 105.5		Danville WPGM-FM 96.7	
	Swift Current 104.3 CBNO		Hartford WCCC-FM 106.9		Erie WQLN-FM *91.3	
NS	Cheticamp 103.9 CBFA-17 (CBHI); this is		Melbourne WLLV 107.1		Franklin WVEN 99.3	
	the station Glenn Hays says cannot be heard		Miami WEDR 99.1 70000 h, 47000v		Greenville WGRP-FM 107.1	
	in Cheticamp itself)		Naples WRGI 93.5		Huntingdon WRLR 106.3	
	Church Point 95.9 CBFA-18 (CBAC)		Pensacola WTKX 101.5		Linesville WVCC 101.7	
	Halifax 92.3 CBFA-19 100000 h,v; 711'		Punta Gorda WQLM 92.7		North East WHYP-FM 100.9	
	Margaree 101.9 CBFA-15 (CBHJ)		Sarasota WSPB-FM 106.3		Philadelphia WXPB *88.9	
	Sydney 105.9 CBI-FM 376' (100000)		Winter Park WLOQ 103.1		Sellingsrove WOSU *88.9	
ON	Gogama 104.9 CBON-21 6900 h,v; 560'		GA		Shamokin WISL-FM 95.3	
	Kingston 92.9 CB8K 1600 h,v; 395'		Cordelle WFAV 98.3		Previdence WJBF 103.1	
	London 99.3 CJB-20 ON AIR1		Moultrie WMTM-FM 93.9	RI	Greenville WEPB *90.1	
	North Bay 95.1 CBON-17 (CBJN)		Thomasville WTUF 107.1	SC	Moncks Corner WTVF 105.5	
	Peterborough-Cobourg 93.5 CBPC 28400 h,v,		IL		Chattanooga WDTN *89.7	
	directional; 558'		Peru WIVQ 100.9		Fayetteville WYTM 105.5	
	Peterborough 106.3 CJB-5 (CJB-16)		Pittsfield WBBA-FM 97.7		Johnson City WQUT 101.5	
	Red Lake 90.5 CBEA		Shelbyville WSHY-FM 104.9		Lewisburg WJLM-FM 94.3	
	Sarnia 106.3 apparently remaining CBEG (not		IN		Nashville WPLN *90.3	
	CBC), as Canada list shows CBEG.		Salem WSLM-FM 98.9		Pulaski WJLE 96.3	
	Thunder Bay 89.3 CBON-20, French		Terre Haute WVT5 100.7		Smithville WML-FM 101.7	
			IA			
			Clinton KLNQ 97.7			
			KS			
			Kansas City KUDL 98.1			
			KY			
			Danville WMGE 107.1			
			Greensburg WGRK-FM 103.1			

FCC -FM

TX Austin KMFA \*88.5  
 KOKE-FM 95.5  
 KHFI 98.3  
 Denison KGCC \*89.7  
 Lubbock KSEL-FM 93.7  
 KLBK-FM 94.5  
 VT Burlington WEFZ 92.9  
 VA Altavista WKDE-FM 105.5  
 Charlottesville WWWW 97.5  
 Culpeper WCUL 103.1  
 Front Royal WFFV 99.3  
 Harrisonburg WQPO 100.7  
 Richmond WEZS 103.7  
 Tasley WESR-FM 103.3

WV Parkersburg WQAW 103.1  
 Wheeling WVNP \*89.9 [2050' w /  
 PR Guayama WXR-FM 106.9 50000 h /  
 Mayaguez WAEL-FM 96.1  
 WIOA 97.5  
 Ponce WIOC 105.1  
 San Juan WKAC-FM 104.7  
 WKKM-FM 105.7  
 Utuado WERR 104.1  
 BC Alert Bay CBRV 105.1  
 MB Winnipig CJUM 101.5  
 PQ Lithium Mines CHLM-197.3

JULY, 1979  
 ABBREVIATIONS

Program codes: c classical, d disco, e ethnic, g gospel, j jazz, k country, L Latin/Spanish, m middle of the road (but no rock), p progressive rock, P rock hits, oldies and rock songs that never made any hit list, including easy-rock, s soul. Network codes: A ABC-FM (ABC standing for American Broadcasting Co.), B National Black Network, C Columbia Broadcasting System, E ABC Entertainment, I ABC Information, M Mutual, N National Broadcasting Co., P National Public Radio, S Associated Press Audio, U United Press Audio, Y ABC Contemporary, Z Mutual Black. \$ is stereo, h is horizontal effective radiated power in watts; v vertical radiated power in watts.

FM NEWS AND READERS' REPORTS

Florida's John Combs is being a media activist along with his DXing. He's called on WQHL 98.1 Live Oak FL and directed them to give legal calls on the hour, instead of always calling selves "FM-98," and he's called WQLM92.7 to complain about their being on 92.9 (the engineer there admitted to not having a frequency check for quite some time). He also heard WKLT 97.7 Kalkaska MI, on air! WOMC 104.3 Detroit heard with Italian; a new format for them? Both WMNF \*88.5 Tampa and now WDNA \*88.9 Miami are off the air. John is also gonna complain to WTLN-FM 95.3 Apopka FL for leaving their carrier on all night! And WSWF 107.1 Lehigh Acres claims to give a legal i.d. in a jingle once per hour, but John has not heard this jingle with the legal i.d., and he's about to open fire against that station—more power to you, John! (WQLM 92.7 is in Punta Gorda FL.)

New public FM stations are planned for Camden ME, Portland ME (a public-access station, probably another slow-to-build station like Nora Blatch \*90.7 New Orleans and WMNF Tampa), and another in Concord NH, says antenna artist Rod O'Connor. Peter Sawatzky claims WERG Erie has been heard on 89.5, instead of their supposed-to-operate-on frequency of 89.9, but he's checking further. He heard a "KOYR" 92.5 on skip, but my data show nothing like that.

The Cleveland Public Library is buying WBOE \*90.3 from the schools, and it will be operational by the end of the year. New calls applied for WCPL.

WFMT-FM 98.7 Chicago will become the nation's first radio superstation, going on the satellite, RCA's Satcom I 24 hours per day, piggyback on the WGN-TV uplink at Lake Geneva WI. The classical format of WFMT-FM will give it an unique appeal to many cable subscribers, and will help WFMT-FM sell advertising, particularly mail-order ads (FM Atlas?).

Richard Wood would like the FM Atlas to list stations whose transmitters are in a state or a province other than that of their city of license. I'm not going to promise that, but look for a lot of exciting changes in the next FM Atlas, when it is out.

KQRS-FM 92.5 Golden Valley will be carrying NBC's special new newscast, "The Source" for album-rock stations. I'll be watching to see if "The Source" qualifies for listing as a network. You will notice that I now recognize disco as a legitimate radio station format and music form in its own right. After studying the matter (doing more of that than actually listening to disco, as I am not a masochist), I concluded that disco with its peculiarity of beat qualifies it as a distinctive and evolving musical form, unlike album-oriented rock or middle of the road, as opposed to beautiful music. Late summer is when stations like KQRS-FM are expected to move to the 800+ IDS tower.

In Muncie, WBST 92.1 back on regular schedule noon to midnight after complaints of interference to TV channel 6 have been resolved. KIOB 103.9 Coeur d'Alene ID was to have come on the air June 4. "A horrid hillbilly station!" is how Ralph Strobel describes WKTA 106.9 McKenzie TN, with slogans used including "Truckers Country Music," "Big Country Radio," "No. 1 Country." KVIL 103.7, r, \$, identifies as Highland Park-Dallas-Fort Worth, in that order.

Mark Lucas, an SCA listener, has a stereo tape of Muzak, sent from England, which is said to be of as good quality as main-channel FM. It was dubbed off one of their masters, probably not with Muzak's approval. Al Ellis enjoys student FM stations from the U.S., and has heard WERG Erie, implying that they are on 89.9 as they are supposed to be. "This of course does little for WKSU of Kent OH close by in frequency (89.7); they do fortunately breakfast that useless CBC station in Windsor (89.9) busily broadcasting the same stuff as CBC in Toronto and London's CBC outfit. We uns are going to be fed Kulture if it kills us, it might, ifn we listen and most do not. This catering to junk receivers by the idiots we have in Ottawa is beyond me... Four powerful FM stations all within 200 miles is a bit too much... I suppose fiddle players have to live, but off a record?" Phil Boersma says WJFM 93.7 Grand Rapids' transmitter is at Gunn Lake, between GR and Kalamazoo. WSRX \*88.5 Allendale has given up going up to 1 kw from 10 watts.

WJOI 93.7 Pittsburgh has its own background music, "Musicast," 24 hours without ID. The state whose radar detector prohibition was recently struck down was Virginia. In Chicago, Dialogue Publications is looking for a station to start a talking book service; thinking of WBEZ. According

to one source who wants to be unnamed, WXRT 93.1 Chicago modulates its SCA fully 13%, which is above the 10% maximum the FCC permits stereo stations. He says they favor SCA at the expense of their main channel because "their main channel ratings are poor, and they make a large part of their money from their background music SCA service. Meanwhile WEFM 99.5 Chicago doesn't much care about their subcarrier, which they give just 7-8% of their total modulation. They also modulate their main carrier more densely, which is probably why their PRN comes through so poorly on the SuperSnooper."

Another SCA listener notes that the audio quality of the Physicians Radio Network is good on both WGNA 107.7 Albany and WEVD-FM 97.9 New York, but "it's awful" on WDJF 107.9 Westport CT. WHBI 105.9 "should be sold in a distress sale soon and should change calls to WUOK and become all Spanish. Also, I have not heard their Chinese SCA in a while, although the competing SCA on WRVR 106.7 is still cooking." Also expected to change call letters is 99.7 Louisville KY, WCSN, now rock and nonDing as "JJ-100." They want WKJJ-FM.

A response came to my contest to sit on 102.3 and listen to the Fredericton-Saint John NB CBC station give its legal calls and cities of licence, with Pierre Daigle sending a tape with its complete sign off, which doesn't say much more than their regular hourly identification, translated, which would be: "CBAF is CBC's French network of the Atlantic." He sent a quality 7 1/2 ips stereo tape, recorded at 513 km via tropo, with sign off occurring 0010 EST April 30, 1979.

Very interesting was a letter that I received from Gilles Courtemanche, P. Eng., director, Broadcasting Regulation Branch, Telecommunication Regulatory Service, Canadian Department of Communications, Ottawa, who said:

"... The Department will soon gazette for public comment guidelines and regulations for the assignment and usage of call letters for identification purposes. There are no mandatory procedures for FM station identification under existing regulations."

So all you DXers, living on either side of the border and who expect to receive Canada FM stations, here is (or soon will be) your chance to comment to the Canadian DCC at 300 Slater Street, Ottawa, Ontario K1A 0C8, and perhaps effect a change that would result in Canadian stations giving proper identifications at regular intervals.

Also received were updated Canadian FM station lists, on-air and authorized, with the new data dutifully recorded on the preceding pages, notably under "facilities" and "call letters."

David Walcutt sent a long article from the Houston Business Journal going into local radio formats, and the expanding audience for FM. The article noted how KRRLY 93.7 went from album rock to disco, and how KFMK 97.9 has applied to change from religious to rock, which is being sold to the Marriott hotel and amusement park company.

KJFF 106.9 Jefferson City made signal improvements, so KWWR 95.7 in Mexico Mo switched from middle of the road to country, alleges one of my correspondents.

Andy Smith says the fate of WGTB \*90.1 Washington DC still being decided. Probable license is the University of DC. There is a suit to retain the format by whomever gets license. Former WGTB staffers have formed a group to try to retain as much of the present format as possible. Their address: Friends of WGTB, Box 32370, Georgetown Station, Washington DC 20007. "When station went off the air, about 200 marched to FCC at 1919 M Street, N.W. chanting "GTB" and "Disco sucks." Andy points out that WPGC-AM-FM Morningside MD is owned by Marriott Corp., the same company planning to take over Houston's KFMK.

CONTRIBUTORS

Phil Boersma, Muskegon Heights MI; John F. Combs, Orlando FL; Pierre Daigle, Sainte-Foy PQ; Vernon Eaton, Beonton AR; John Ebeling, Bloomington MN; Albert H. Ellis, Brantford, Ont.; Ted Fleischaker, Louisville KY; Mark S. Lucas, Lancaster OH; Morris S. Goldman, Chicago IL; Robert Goodman, Cicero IL; Gregory Monti, Bayville NY; Richard Noelke, Washington MO; Rod J. O'Connor, South Portland ME; W. G. Robson, Ottawa, Ont.; Peter Sawatzky, Guelph, Ont.; Larry Short, Canon GA; Andy P. Smith, Dillsburg PA; Ralph Strobel, Muncie IN; Rudy Urban, New Haven CT; David L. Walcutt, Houston TX; Richard E. Wood, Ph.D., Cape Girardeau MO. And some data came as the result of my skip reception to LA and TX of June 7.

I appeared early in June at a Minnesota state church convention, attended by about 1,000 clergy and lay delegates. While there I submitted a resolution describing SCA as a means of increasing service to the public, including minorities, the elderly and the handicapped, with the recommendation that MN State Services for the Blind not resist public utilization of this resource, and for the national body to request the FCC, Washington DC, to encourage the public to tune in SCA and to make available low cost variable-tuned SCA radios. The group unanimously approved referral to its Social Action Committee for study of my resolution, which action came about after I spoke to that point. I will serve as consultant to the committee on that matter. Also contributing: Robert Grant, Detroit MI; David Leibold, Blyth ON (who says Toronto cable station CKRG 91.9 has an outdoor mike and broadcasts birds chirping, street noises, etc. when normally off air, 0100-1700).



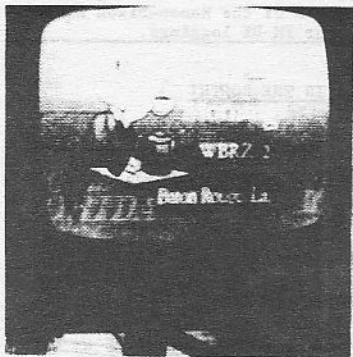


# PHOTO-NEWS

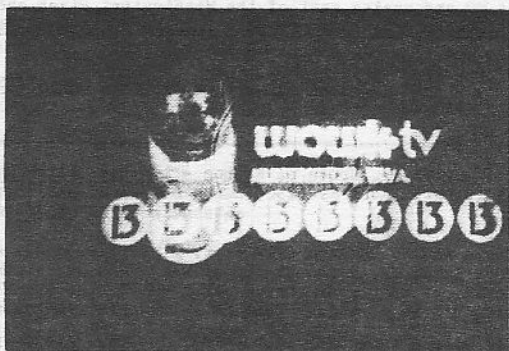
Jim Alexander  
4 Brook Court  
Parsippany, NJ 07054

July, 1979

Texas-to-Florida tropo came late this year, but was worth waiting for, as evidenced by this month's photo of KHTV-39 by John Combs. 855+ mile tropo signals of such quality are not often received -- much less turned into photos such as this month's!



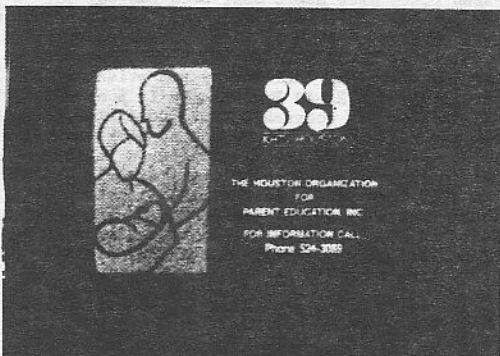
WERZ-2 Baton Rouge, LA  
E-skip (Simon)



WOWK-13 Huntington, WV  
280 mile tropo (Gaines)



WRAU-19 Peoria, IL  
345 mile tropo (Gaines)



KHTV-39 Houston, TX  
855 mile tropo  
5/21/79 (Combs)



KQTV-2 St. Joseph, MO  
E-skip (Barber)

## Contributors:

Ken Simon, (photo taken at  
West Palm Beach FL)

Paul Gaines,  
Detroit MI

John Combs,  
Orlando FL

John Barber,  
Carolina RI

73 and good DX, *Jim*

# NORTHERN FM-DX

Ralph Strobel, editor  
2510 E. McGalliard Rd.  
Muncie, Indiana 47303  
(317) 288-5815

Deadline: the 10th

July 1979

For FM DXers in Canada, the Northwest-Central states of WA OR ID MT WY ND SD NE MN IA MO and states east of the Mississippi River and north of the Mason-Dixon Line. All DXers from this area are encouraged to send me your FM DX loggings.

## JUNE 1st E-SKIP BOMBARDS FM ANTENNAS IN THE NORTH!

Dr. Bruce F. Elving - 18 1/2 East Fifth Street - Duluth MN 55805

Equipment: Sony ST-5130, using 6-element horizontal or 5-element vertical yagi antenna mounted on front porch.

There was no DX here from Sept. 7 until Dec. 25, when I picked up K280AW 103.9 Hoyt Lakes MN, a translator of WAKX-FM 98.9 Duluth. I even called WAKX-FM and found out what time they would identify the translators, so I got a nice tape of K280AW's legal i.d.! This is a 10-watt translator.

The only skip to date was Friday June 1, when skip was in solid from 10:25 am EDT to 1:15 pm. New stations received: KWCL-FM 96.7 Oak Grove LA, \$; KTRY-FM 94.3 mono rock, announcing they will go 24 hours starting June 4, KJBS, "JB-100," stereo Disco with music SCA, both Bastrop LA. I purposely tuned in KJBS on the hour to hear their legal i.d., as I do not count stations only giving their slogans. KJNA 99.3 Jena LA heard in stereo with the monaural Earl Nightingale Program, ending 12:30 pm, then KEFR 88.9 Commerce TX also with false stereo and "Options" at 1:02 pm, followed by reception of KNUE 101.5 Tyler TX, m, \$, music SCA. I re-received KPRA-FM Franklin LA in \$ on 105.5, having been received in 1975 on 95.3 when it was monaural; KRHV 100.3 Alexandria LA (previously as KDBS-FM); KSLI 96.9 Alexandria LA with CBS and no rock (only m music), no SCA heard, although listed as SCA music (previously heard in 1952 as KALB-FM). Also heard with new call letters: KAFM 92.5 Dallas (formerly KRLD-FM, verified as such in 1952), KPLX 99.5 (previously as KKOL-FM), and KROK 94.5 Shreveport LA, using non-ID "Super Rock 94," except on the top of the hour when I heard their full i.d. (heard in 1953 as KWKE-FM). Distances for these receptions ranged from 975 to 1225 miles. I now have 1464 stations heard on FM, since I started DXing from the Duluth area in 1948.

73, Bruce

\*\*\*\*\*  
Harry J. Hayes - 9 Henry St. - Wilkes-Barre, PA 18702

Equipment: Zenith Trans-Oceanic, Stacked Quad loop cut to 104 MHz, in Wilkes-Barre Zenith w/built-in antenna at Gouldsboro. \*DXing at Gouldsboro. New underlined.

*4/13	tr	1958	WNYU	89.1	NY	New York	100
		2007	<u>WVHC</u>	88.7	NY	Hempstead Irish mx, verie received	110
		2100	WRSU	88.7	NJ	New Brunswick disco mx	75
4/18	as	2200	WMGM	103.7	NJ	Atlantic City (on airplane scatter)	130
5/22	Es	1740	WQTD	93.7	MS	Biloxi	1000
		1744	WBYU	95.7	LA	New Orleans	1100
		1757	WYYL	97.7	MS	Tylertown local nx	
		1800	KTDY	99.9	LA	Lafayette (ex-KPEL)	
		1805	WALT	97.1	MS	Meridian r	950
		2035	<u>WQST</u>	92.5	MS	Forest k	
		2100				Sitting on 93.5 at this time, the following ID's scooped up within one minute:	
			<u>KVPI</u>	93.5	LA	Ville Platte s/off of 1050 AM ID's	
			<u>WXIY</u>	93.5	MS	Bay Springs taking place of KVPI	
			<u>WHJT</u>	93.5	MS	Clinton taking place of WXIY. ID "The FM Alternative" backed by Beethoven mx.	
		2111	KSNS	96.1	LA	Lake Charles "FM-96" ID	

All skip received on quad loop. Not too much skip. It looks like 1978 again.

\* READ ON! \*





Peter Sawatzky - R.R. #4 - Guelph, ON N1H 6J1

Equipment: Sony ST-5130 tuner; Delhi 1047 antenna @70'; homebrew automated tape DX setup as outlined in previous reports. All stations received via automated setup asterisked\* and time span during which received given as time not precisely known unless given on tape by announcer. All loggings EST to April 28 and EDT thereafter.

<u>3/29</u>	<u>GW</u>	0730-2100	<u>CFMX*</u>	103.1 ON Cobourg	110
				(new station testing with ID)	
<u>5/5</u>	<u>tr</u>	2034	WAUS	90.7 MI Berrien Springs	325
<u>5/10</u>	<u>Es</u>	2128	KCFR	90.1 CO Denver	1270
<u>5/18</u>	<u>Es</u>	0800-1300	<u>KETR*</u>	88.9 TX Commerce	1080
		0800-1300	<u>KWPM*</u>	93.9 MO West Plains	770
		0800-1300	<u>KOBC*</u>	90.7 MO Joplin	855
		0800-1300	<u>KWEY*</u>	97.3 OK Weatherford	1125
<u>5/19</u>	<u>Au</u>	0000-0100	While driving on Highway #17 west near Pembroke, Ontario, (between Ottawa and North Bay) witnessed the most spectacular display of northern lights I have ever seen. Tuned through the FM band on car radio and found every frequency affected although no ID's were attempted. Effects of the Au on FM was particularly noticeable in this area due to the absence of locals.		
<u>5/22</u>	<u>Es</u>	1735-2100	<u>WPAP*</u>	92.5 FL Panama City	955
		1735-2100	<u>WFSU*</u>	91.5 FL Tallahassee	920
		1735-2100	<u>WJAC*</u>	100.9 FL Marianna	925
<u>5/24</u>	<u>GW</u>	2223	<u>WWOR</u>	104.1 NY Buffalo	85
				(first time by new calls - ex-WWOL-FM)	
<u>5/30</u>	<u>Es</u>	1800-2000	<u>WMCU*</u>	89.7 FL Miami	1205
		1800-2000	<u>WSHE*</u>	103.5 FL Fort Lauderdale	1190
		2000	<u>WHRS*</u>	90.7 FL Boynton Beach	1160
		2005	<u>WWWL*</u>	93.9 FL Miami Beach	1225
				(first time by new calls - ex-WBUS)	
		2000-2145	<u>WRMB*</u>	89.3 FL Boynton Beach	1160
				(no longer on 88.7 as listed in FM Atlas - ID heard including frequency)	
<u>6/1</u>	<u>Es</u>	1255	<u>KEBC*</u>	94.7 OK Oklahoma City	1045
		1255-1330	<u>KCSC*</u>	90.1 OK Edmond	1070
		1330	<u>KTEZ*</u>	101.1 TX Lubbock	1350

Also note that in my report in the May/79 VUD, my 3/7 logging of Fredonia NY should read WCVF, not WCBF as I listed them (this per Bruce Elving). Also, Bruce mentions that WERG Erie PA is on 89.9 MHz. rather than the 89.5 MHz. that I listed and now with 3 KW rather than their previous 10 W on 89.1 MHz. Al Ellis has apparently heard them on 89.9 although I am reasonably certain that they were on 89.5, since I logged them on 2 separate occasions with ID's although they did not include their precise frequency in the ID. I'll reserve judgement on this until I hear them again. The 89.5 frequency was noted while I still had my Pioneer TX-9500 which has superior frequency readability and accuracy than my present Sony ST-5130.  
73, Pete

\*\*\*\*\*

John Ebeling - 9209 Vincent Ave. So. - Bloomington, MN 55431

Equipment: Heath AJ-15 & Sony ST-5130 all at Bloomington location. New mode dashed. Time is CST. New underlined.

<u>4/1</u>	<u>Au</u>				
1930	<u>KCKN</u>	94.1	KS	Kansas City	
2000	<u>KRGI</u>	96.5	NE	Grand Island k	
<u>4/24</u>	<u>tr</u>				
0645	<u>KRGS</u>	104.9	IA	Spencer g	
0700	<u>KIOW</u>	102.3	IA	Forest City	
<u>5/15</u>	<u>MS</u>				
0550	<u>KQXY</u>	94.1	TX	Beaumont "Here at KQXY.."	
<u>6/1</u>	<u>Es</u>				
1033	<u>WRJH</u>	97.7	MS	Brandon g	
1044	<u>WJNS</u>	92.1	MS	Yazoo City	
1046	<u>WCCA</u>	94.1	MS	McComb k	
1055	<u>WLIN</u>	95.5	MS	Jackson m	
1100	<u>WTUL</u>	91.5	LA	New Orleans	
1100	<u>WWNO</u>	89.9	LA	New Orleans	
				This has been a rotten year up here for any DX. Even channel 2 has had Es only a couple of times, and the opening never made it to the FM band. June started out with a bang, but there has been nothing since the 1st. Hope to have more to report next month if nature cooperates. 73John	
<u>6/1</u>	<u>Es</u>				
1110	<u>WVLA</u>	105.5	MS	Indianola	
1116	<u>WTGT</u>	103.3	LA	Hammond	
1125	<u>WTYX</u>	94.7	MS	Jackson r "94-Ticks"	
1127	<u>WQUE</u>	93.3	LA	New Orleans r "Q-93"	
1129	<u>WBAD</u>	94.3	MS	Leland	
1135	<u>KTXF</u>	88.1	TX	Lubbock "FM-88" E nx	
1137	<u>KIVY</u>	92.7	TX	Crockett	
1141	<u>WAFB</u>	98.1	LA	Baton Rouge	
1147	<u>KROZ</u>	92.1	TX	Tyler k	
1153	<u>KUHF</u>	88.7	TX	Houston promo SS ID	
1200	<u>WYNK</u>	101.5	LA	Baton Rouge	
1201	<u>KDQN</u>	92.7	AR	De Queen AP nx, new	
1215	<u>KEPT</u>	96.5	LA	Shreveport g	

A second report arrived from John Ebeling of Bloomington, MN indicating more Es -

6/5 Es					
1745	KOB	93.3 NM	Albuquerque	1800	KLYT 88.3 NM Albuquerque
1747	KRST	92.3 NM	"	1800	KRWG 90.7 NM Las Cruces
1757	KHFM	96.3 NM	" + SCA (music)	1823	KAVI 95.9 CO Rocky Ford SS, mono,
1759	KFMG	107.9 NM	" r (thru local		h polar. only (in for 25 min.)
			KTWN)	1859	KINL 92.7 TX Eagle Pass r

Also on 94.1, a "KYNN" which is what call sounded like, but didn't get city nor can I find call. Music was k.

\*\*\*\*\*

Paul Mount - 35 1/2 West Columbus St. - Nelsonville, Ohio 45764

RX: Sanyo AM/FM Stereo M 9980

5/10	GW	0809	WKFI	102.3 OH	Wilmington r	85
5/14	tr	0100	WFBC	94.7 IN	Indianapolis rp, WVKO off	225
		0107	WAKW	93.3 OH	Cincinnati g, o/unID	121
		0110-0126	WBZT	95.3 OH	Xenia r "I-95"	99
5/23	tr	0113	WNUD	92.9 IN	South Bend r "FM-95" wx	265
	GW	0117	WILE	96.7 OH	Cambridge on late w/Reds BB	52
		2100	WCJO	97.7 OH	Jackson r, ID into Earth News	36
		2121	CECL	93.5 ON	London CBC	250
		2138	WRIA	101.3 IN	Richmond "FM-101"	136
		2224	WMHE	92.5 OH	Toledo rp (ex-rs)	168
5/28	tr	0007-0230	WPEZ	94.5 PA	Pittsburgh r, WVKO off	137
		0013	WQLK	96.1 IN	Richmond k, WBES QRM	136
		0052-0110	CJOM	88.7 ON	Windsor rjk	200
	GW	0102	WMRT	88.3 OH	Marietta s/off	42
		0155	WCSU	88.9 OH	Wilberforce	99
		0200	WATF	88.3 OH	Cincinnati r	121
		0215	WLQA	98.5 OH	Cincinnati m	121
	tr	0236-0455	WIKS	99.5 IN	Greenfield rs "Kiss-99"	210
		0250	WSHH	99.7 PA	Pittsburgh m, WRMZ off	137
		0455-0500	WMEF	97.3 IN	Fort Wayne m	190

Not having the call change in my atlas, hearing "Kiss-99" ID's on 99.5 had me hanging on for hours as there's a KISS in San Antonio on 99.5. Looking up other SAT stations had WOAI on 97.3 w/m, so my hopes were doubled when I heard m on 97.3. Then within five minutes, my three hours of listening gave two disappointing ID's. However, new to my log. Call to KISS unanswered. At least I didn't have school that day. I'm working part time at WLGN 98.3. Send reception reports to me at P.O. Box 429, Logan, OH 43138. Paul Mount

\*\*\*\*\*

Michael L. Hogan - 13910 Chippewa Ave. Apt. 1 - Burnham, IL 60633

5/22 Es WMCU 89.7 FL Miami

Total stations heard is currently 241. 53 of those on the ed. band, TPU-19 73, Mike

\*\*\*\*\*

Jim Alexander - 4 Brook Court - Parsippany, NJ 07054

Equipment: Heath AR-15 receiver, two Radio Shack 6-element FM antennas at 25'

5/22	tr	0600	WESR	103.3 VA	Tasley (250)	5/30	Es	2004	WHSF	92.1 AL	Fairhope
	Es	1920	WJNS	92.1 MS	Yazoo City			2036	WPAP	92.5 FL	Panama City
		1930	WCPC	93.3 MS	Houston	5/31	tr	2000	WCYX	92.1 PA	Palmyra (125)
		1949	KQTD	93.1 LA	Alexandria	6/2	tr	2000	WFOG	92.9 VA	Suffolk (305)
		2000	WQST	92.5 MS	Forest			2130	WSFL	106.5 NC	Bridgeton(420)
		2025	WERH	92.1 AL	Hamilton			2330	WITN	93.3 NC	Wash. (390)
		2100	KVCL	92.1 LA	Winnfield	6/3	tr	0021	WNCT	107.7 NC	Greenville
5/30	Es	1946	WLHI	92.3 AL	Montgomery			0242	WYVD	96.1 NC	Raleigh (405)
		1958	WZGC	92.9 GA	Atlanta			0300	WRAL	101.5 NC	Raleigh (405)
		2000	WBLX	92.9 AL	Mobile						

E-skip was good in late May but has dropped off considerably since-it's been very slow for early June. Making up for the lack of E-skip in June was the excellent tropo opening of June 2/3, which brought new stations from both coastal and inland North Carolina. The coastal NC stations logged all had good signals at nearly 400 miles. 73 and good DX, Jim



Richard E. Wood, Ph.D. - 1943 Carolina Lane - Cape Girardeau, MO 63701  
 Equipment: Heathkit AJ-15, aligned and modified by ex-WFFDAer Andy Bolin; CADCO  
 FM amplifier; two Channel Master Stereo Probe 9s atop a CDE rotor, horizontally  
 stacked at 35 feet. GST/CDT used.

4/12	tr	2230	KQIT	93.1	LA Alexandria live r, "93-QIT FM"	450
5/2	Es	1848	XEDA	90.5	DF Mexico m	1375
		1858	XEBS	89.7	DF Mexico c "El Sonido de los Clasicos," change format in <u>FM Atlas</u> , still mono	1375
		1901	XHM	88.9	DF Mexico full ID, live	1375
5/6	tr	1100	KERA	90.1	TX Dallas-Ft. Worth Jewish Music Hall, 1st TX	510
		2000	WLRH	89.3	AL Huntsville German pgm., presumably for German scientists there	250
		2300	KWJS	94.9	TX Arlington UPI nx, mono	510
		2300	KXXA	95.7	AR Little Rock nx	220
		2305	KCUR	89.3	MO Kansas City state nx	300
5/13	tr	1805	KCKN	94.1	KS Kansas City m\$, 1st KS here	300
5/17	tr	0725	WAZY	96.5	IN Lafayette state nx	260
5/18	Es	0956	WNGX	93.1	ME Portland m, auto sounding but not per QSL	1105
		0959	WEZF	92.9	VT Burlington m, QSL	975
		1000	WNHV	95.3	VT White River Junction (tx: NH) Ai nx, QSL	1000
		1003	CTEL	98.5	PQ Longueuil-St. Lambert chansons	1010
		1010	WEEB	100.3	NH Portsmouth r, "FM-100"	1080
		1011	CITE-1	102.7	PQ Sherbrooke chansons	1080
		1012	WXLQ	103.7	NH Berlin "XLQ", local ads, QSL	1075
		1014	CFDM	104.3	PQ Drummondville c	1105
		1015	CEVE	104.7	PQ Quebec EE political discussion, mono	1165
		1022	CKO-FM1	106.9	ON Ottawa EE political comment, travel	920
		1025	CHEZ	106.1	ON Ottawa (tx: Camp Fortune PQ), live DJ, QSL	920
		1040	CFLY	98.3	ON Kingston local ads, note new calls (ex-CKLC- FM), QSL as most distant FM report.	900
		1050	CJBC-20	96.5	ON Penetanguishene FF, talk, mono	725
		1100	CBV	95.3	PQ Quebec \$, informations de Radio-Canada	1165
		1118	MLVH	93.7	CT Hartford state nx in SS	950
5/22	Es	1648	WBKF	92.1	FL Macclenny \$, local ads, nx	860
		1650	WKNE	90.5	NC Kinston "Star Ward" type IS, nx, s/off 1658	770
		1658	WFO5	90.5	VA Chesapeake s/off 1700, QSL as 1st report outside local area.	810
		1700	WFOG	92.9	VA Suffolk-Norfolk m, ment. Tidewater	800
		1706	WWOR	98.3	NC Murfreesboro m, local wx	805
		1717	WCMS	100.5	VA Norfolk r, wx, QSL	810
		1800	WMCU	89.7	FL Miami played wrong tape and in QSL said my report had pointed out error; was most distant.	960
		1805	WCMQ	92.1	FL Hialeah Cuban mx, \$, SS DJ	960
		1813	WMYK	93.7	NC Elizabeth City noisy r\$	810
		1827	WKEZ	95.7	VA Norfolk "WK-Easy"	810
		1849	MYCS	91.5	VA Yorktown student DJ, PSAs, bumbling nx, mono	800
		1852	WFGT	90.1	NC Roanoke Rapids g mono, QSL-most distant rpt.	785
		1858	WAFG	90.3	FL Ft. Lauderdale semi-c, ID, nx	950
		1944	WHRO	89.5	VA Norfolk c\$	810
		2005	WDYL	92.1	VA Chester g, Richmond address	760
		2030	WTVR	98.1	VA Richmond m, "FM-98," nx	760
		2100	WTMI	93.1	FL Miami c, QSL-trans. on Palm Beaches at 102.3	960
5/23	Es	2008	KFAH	92.1	NE Alliance m "\$-92" local ads, MDT t/c	685
		2015	KHOW	95.7	CO Denver m, local ad, PSA, QSL	860
		2215	KBYU	88.9	UT Provo c	1265
		2220	KUER	90.1	UT Salt Lake City j, student DJ, QSL as only distant report in recent years.	1275
5/28	tr	0800	WUBE	105.1	OH Cincinnati k, live DJ, 1st OH here	290
	Es	1957	KJOK	93.1	AZ Yuma re, ann.// MW KVOY	1450
		2050	KMCR	91.5	AZ Phoenix \$, theatre, ballet, ID	1270
		2100	KXTC	92.3	AZ Glendale-Phoenix r\$	1270
6/1	Es	1130	KRAI	93.1	CO Craig k\$, nx	995
		1138	KQSW	96.5	WY Rock Springs ID for MW KRKK	1090
		1148	KSID	95.3	NE Sidney mono, public service interview	775
		1153	KDLY	97.5	WY Lander k\$	1080
		1157	KERM	98.3	WY Torrington auto k, ads for Scottsbluff, NE	850
		1211	KTAK	93.5	WY Riverton auto m, "FM-\$"	1075
		1222	KFBQ	97.9	WY Cheyenne m\$, local ads	870
		1231	KRCS	93.1	SD Sturgis-Rapid City auto m\$	875

<u>6/1</u>	<u>Es</u>	1234	<u>KFYR</u>	92.9 ND Bismarck \$, "Y-93" wx	860
		1257	<u>KOLY</u>	99.5 SD Mobridge wx, live DJ greeting Es listeners in Nashville, TN	790
		1300	<u>KSJM</u>	93.3 ND Jamestown \$, nx, wx, o/semi-local WKYQ	790
		1315	<u>FIVE</u>	96.5 MT Glendive "\$-96", local ads	1025
		1320	<u>KGGM</u>	95.7 MT Scooby \$, nx by Ole Olson	1100
		1337	<u>KOLL</u>	93.5 WY Gillette \$, wx, Cosell sports	960
		1340	<u>KROE</u>	94.9 WY Sheridan rs, "FM-94"	1040
		1354	<u>CBKF</u>	97.7 SA Regina mono, informations des Prairies, o/KSTG	1170
		1758	<u>CEWV</u>	97.9 MB Brandon mono, ID as "CBC Radio in Manitoba"	990
		2130	<u>KFLG</u>	92.9 AZ Flagstaff m, "\$92.9"	1240
		2142	<u>KTOB</u>	89.7 NM Ramah mono, live folkley show: prize day at local grade school	1060
<u>6/4</u>	<u>tr</u>	0738	<u>WBQM</u>	91.7 AL Decatur g, wx	250
<u>6/5</u>	<u>Es</u>	1043	<u>XHQK</u>	91.3 DF Mexico ads	1375
		1045	<u>XHFO</u>	92.1 DF Mexico r, mono	1375
		1047	<u>XEBS</u>	89.7 DF Mexico c, Many IDs as Estereomil, call, freq.	1375
		1048	<u>XEUN</u>	96.1 DF Mexico c\$	1375
		1055	<u>XHSH</u>	95.3 DF Mexico PSAs, mixed	1375
		1056	<u>XHQK</u>	94.3 Tam Tampico local ads	1150
		1233	<u>KXMS</u>	92.1 TX Alice local nx, wx, 1st TX by Es	800
		1330	<u>KAMA</u>	93.1 TX El Paso \$, network nx in SS	1050

To reintroduce myself, I am the former editor of "FM South" in VUD and have DXed most bands since 1957. I am a native of Dundee, Scotland and am Associate Professor of Applied Linguistics at Southeast Missouri State University, Cape Girardeau. Until Jan. I lived in New Hampshire, which was a better location for SWBC but I think this is a superior one for FM and TV. Thanks to WFPDAer Michael Hollis for helping build the stacked array with which these were caught; the 2 x 4 cross-bar, reinforced with flanged metal and center plates top and bottom, was the fourth tried after three others of plastic pipe or 1 x 4 were found too weak; the two SPs are held parallel with rope. Almost all the above were reported, and initial QSLs have been prompt and enthusiastic. Will attend ANARC in Minneapolis later this month and display a table with my publications, QSLs and souvenirs.

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Dave Hascall - 211 N. Merrill - Fortville, IN 46040  
 Equipment: Capehart Stereo RX (asterisked\*), Portable w/whip.

<u>12/29</u>	<u>tr</u>			<u>4/8</u>	<u>tr</u>		
1005*	<u>WDAO</u>	107.7 OH Dayton "Disco 10-77"		0133	<u>WTUE</u>	104.7 OH Dayton	
1030*	<u>WTHI</u>	99.9 IN Terre Haute \$		0158	<u>WLFO</u>	103.9 IN Crawfordsville m	
<u>1/26</u>	<u>tr</u>			<u>4/9</u>	<u>tr</u>		
2300*	<u>WILL</u>	90.9 IL Urbana j\$		2200*	<u>WAUS</u>	90.7 MI Berrien Springs	
<u>1/29</u>	<u>tr</u>			<u>4/10</u>	<u>tr</u>		
1230	<u>WDWS</u>	97.5 IL Champaign ID		2205	<u>WUOL</u>	90.5 KY Louisville	
<u>3/30</u>	<u>MS</u>			2225	<u>WVUB</u>	91.1 IN Vincennes	
2345	<u>KCFM</u>	93.7 MO St. Louis in for five sec. "...degrees at CFM..." darn! State #8		2229	<u>WVJC</u>	89.1 IL Mt. Carmel rs	
<u>4/7</u>	<u>tr</u>			2230	<u>WFPL</u>	89.3 KY Louisville	
1225	<u>WFFR</u>	102.7 IN Terre Haute ID		<u>5/3</u>	<u>tr</u>		
1750*	<u>WHIO</u>	99.1 OH Dayton m\$		2201	<u>WTSU</u>	89.7 IN Terre Haute c	
1800	<u>WCRD</u>	100.1 IN Bluffton "Music for Wells County"		2215	<u>WWWV</u>	106.7 MI Detroit "W-4" ID	
<u>4/8</u>	<u>tr</u>			<u>6/1</u>	<u>Es</u>	(My first FM Es!)	
0033	<u>WIUC</u>	98.3 IN Winchester ad		1240*	<u>KILO</u>	93.5 CO Colo. Springs \$	
0047	<u>WOKV</u>	103.5 OH Hamilton wretching rs		1245*	<u>KYGO</u>	98.5 CO Denver r\$	
				1255*	<u>KTCL</u>	93.3 CO Ft. Collins rs\$	
				1310	<u>KICS</u>	93.5 NE Hastings	

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Robert S. Ross, VE3JFC - Box 4373, Stn. C - London, ON  
 Equipment: Panasonic RF1115, Marantz 2226B w/rabbit ears

<u>6/24</u>	<u>tr</u>	0334	<u>WTWR</u>	92.3 MI Detroit	<u>6/29</u>	<u>tr</u>	0248	<u>WLBS</u>	102.7 MI Mt. Clemens
		2345	<u>CJBC</u>	99.3 ON London			0254	<u>WPOS</u>	102.3 OH Holland
		2347	<u>CBBL</u>	100.5 ON London			0320	<u>WKCQ</u>	98.1 MI Saginaw
<u>6/29</u>	<u>tr</u>	0243	<u>WIQB</u>	102.9 MI Ann Arbor	<u>6/30</u>	<u>tr</u>	0302	<u>WLQR</u>	101.5 OH Toledo

All stations logged this time are new or relogs of stations with call changes.

Fred Nordquist - 7945 Boxford Rd. - Clay, NY 13041

Equipment: Heathkit RX AJ-15, with JFD LPL 10A FM Antenna at 45 feet less several elements lost in 70 mph wind storm.

<u>5/20</u>	<u>tr</u>	2200	<u>CBOF-6</u>	98.1	ON	Cornwall Ffc	EE ID "CBOF"	150
		2205	<u>CBOC</u>	95.5	ON	Cornwall	ID/EE o/u CJBC Kingston relay	150
<u>5/22</u>	<u>Es</u>	1905	<u>WKESJ</u>	94.9	AL	Mobile	k\$ TC	1090
		1917	<u>WGUF</u>	96.7	MS	Gulfport r,	local ad	1040
		1921	<u>WTAM</u>	102.3	MS	Gulfport r,	ID	1040
		1924	<u>WNOE</u>	101.1	LA	New Orleans	"S-101" local ad	1190
		1938	<u>WYLD</u>	98.5	LA	New Orleans	3, ID, navy ad	1190
		1943	<u>WEZE</u>	97.1	LA	New Orleans	"Disco-97"	1190
		1959	<u>WREZ</u>	103.3	AL	Montgomery	m ID	935
		2116	<u>WESJ</u>	107.5	MS	Magee k\$, TC,	PSA, local ads	1015
		2119	<u>WHMD</u>	107.1	LA	Hammond r,	8:19 TC, ID	1175
		2130	<u>WXEL</u>	105.3	LA	Slidell r\$,	"X-105"	1165
		2131	<u>KHOM</u>	104.1	LA	Huoma r\$,	wx, ID	1240
		2145	<u>WFFF</u>	96.7	MS	Columbia	SID, PSA, local ad	1115
<u>5/30</u>	<u>Es</u>	1946	<u>WTUF</u>	107.1	GA	Thomasville	r, ID	970
		1947	<u>WQWD</u>	103.1	FL	Tallahassee	local ad, talk program	1000
		2015	<u>WAMR</u>	92.1	FL	Venice o/local	WSEN!, o/off antenna	1170
		2038	<u>WTAN</u>	95.7	FL	Clearwater	rs\$, (home of Mike Dalton)	1110
		2056	<u>WRCC</u>	103.9	FL	Cape Coral	promo for late nite talk show	1195

73 - Fred

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Eric Fader - 23-35 Bell Blvd. - Bayside, NY 11360

Equipment: Concord CR-260 receiver, BIC FM-8 Beam Box

<u>4/24</u>	<u>tr</u>	1700	<u>WLNQ</u>	92.1	NY	Sag Harbor	80	<u>5/22</u>	<u>Es</u>	80	1919	<u>KDBH</u>	97.7	LA	Natchitoches	1255
		1705	<u>WSBH</u>	95.3	NY	Southampton	(ex-WWRJ)	75			1928	<u>KMAR</u>	95.9	LA	Winnboro	1170
<u>5/13</u>	<u>tr</u>	1240	<u>WDAC</u>	94.5	PA	Lancaster	135				1932	<u>KTRY</u>	94.3	LA	Bastrop	1150
		1300	<u>WGCB</u>	96.1	PA	Red Lion	150				1935	<u>WQNZ</u>	95.1	MS	Natchez	1190
<u>5/22</u>	<u>Es</u>	1911	<u>KVCL</u>	92.1	LA	Winnfield	1225	<u>5/30</u>	<u>Es</u>	1125	1930-2100,	MUF below	91.1,	no IDs.		
		1915	<u>KWCL</u>	96.7	LA	Oak Grove	(ex-KDDI)	1125			1930-2100,	MUF below	91.1,	no IDs.		

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Ralph Strobel - 2510 E. McGalliard Rd. - Muncie, IN 47303

Equipment: Heathkit AJ-1510, Winegard antenna w/rotor at 60 ft.

<u>4/11</u>	<u>tr</u>	0100	<u>WYMS</u>	88.9	WI	Milwaukee	s/off, WSNB off	210
<u>4/22</u>	<u>tr</u>	2200	<u>GJBC</u>	99.3	ON	London	m mono, FF, hockey	275
		2300	<u>CBCL</u>	93.5	ON	London	c mono	275
<u>5/3</u>	<u>tr</u>	2200	<u>CKOT</u>	101.3	ON	Tillsonburg	m\$, "\$-101" o/WRIA	280
<u>5/6</u>	<u>tr</u>	0330	<u>WWWM</u>	105.7	OH	Cleveland	"M-105" o/WTLC/WOOD	210
<u>5/7</u>	<u>tr</u>	0030	<u>WKTA</u>	106.9	TN	McKenzie	k\$, o/WVEZ, WMRI off	360
	<u>Es</u>	0143	<u>KVIL</u>	103.7	TX	Highland Park-Dallas-Ft. Worth	r\$	850
	<u>tr</u>	0208	<u>KTXR</u>	101.5	MO	Springfield	m\$, wx, "FM-101"	490
	<u>Es</u>	0241	<u>KHEZ</u>	100.3	TX	Dallas	m\$, "EZ-100"	850
		0300	<u>KOPM</u>	104.1	OK	Oklahoma City	r\$	775
		0332	<u>KRMD</u>	101.1	LA	Shreveport	k\$	740
	<u>tr</u>	0345	<u>WZEN</u>	100.3	IL	Alton	rs\$, "\$-disco-100" (ex-WOKZ)	290
		0400	<u>WWWK</u>	106.5	IL	Granite City-St. Louis	MO r\$, (ex-WGNU)	290
<u>5/21</u>	<u>tr</u>	0300	<u>WLBS</u>	102.7	MI	Mt. Clemens	rs\$, (ex-WBRB)	220
<u>6/1</u>	<u>Es</u>	1010	<u>KILO</u>	93.9	CO	Colorado Springs	r\$, "Kilo-94"	1040
		1020	<u>KSPZ</u>	92.9	CO	Colorado Springs	r\$, "Z-93"	1040
		1025	<u>KLYT</u>	88.3	NM	Albuquerque	r\$	1250
		1145	<u>KRWM</u>	92.9	NM	Farmington	m\$	1300
		1210	<u>KPLV</u>	98.9	CO	Pueblo	r\$, "Love-99"	1040
		1212	<u>KYTX</u>	98.7	TX	Amarillo	"KY-99"	1000
		1222	<u>KAVI</u>	95.9	CO	Rocky Ford	r mono	1025
		1232	<u>KYNR</u>	99.9	CO	Pueblo	m\$	1040
		1235	<u>KGNU</u>	88.5	CO	Boulder	j\$	1075
		1250	<u>KMJD</u>	91.7	CO	Castle Rock	mono	1050



6/1	Es	1256	KTCL	93.3	CO	Ft. Collins	\$	1050
		1300	KWBI	91.1	CO	Morrison-Denver	"8-91" nx (2nd Es)	1070
		1301	KGRE	92.5	CO	Greeley	m\$	1050
		1302	KPKZ	96.1	CO	Greeley	m\$ o/WQLK	1050
		1312	KFLN	97.1	NE	North Platte	r\$	840
6/2	tr	0700	WCRF	103.3	OH	Cleveland	g\$, "FM-103"	210
		0712	CEL	94.1	ON	Toronto	"CBC-5" nx	375
		0934	WSH	95.5	TN	Nashville	r\$, "SM-95" o/WFMS	300
		0940	WKDF	103.3	TN	Nashville	pr\$, "KDF" o/WXTZ	300
		0710	WFCB	94.3	OH	Chillicothe	"8-94" ad, wx	155
6/6	tr	1200	WLPX	97.3	WI	Milwaukee	rp\$, "LPX-97-FM" o/WMEF	210

Your new "FM North" editor is an Assistant Professor of Musical Performance, School of Music, Ball State University, where I teach oboe and English horn, as well as courses in all woodwind instruments. I am principal oboist with the Muncie, Richmond, and Marion, IN Symphonies. Therefore, I keep very busy. DXing here has worsened, since many FM stations in this area are now on the air 24 hours. Semi-locals are very strong, making DXing more difficult. I have searched day and night for more skip, but so far, no luck. Thank you all for the great reports!

73, *Ralph*

## TECHNICAL TOPICS (continued from page 9)

July 1979

**Q:** "I have a programmable PSB scanner and am purchasing a VHF low/high and UHF ground plane antenna. I will be using this set up for PSB DXing. I was told to use RG-58U coax cable, but I hear RG-8U would be much better. What about using TV coax such as RG-59U? Wouldn't it work just as well?"

**A:** First of all, forget about using RG-59U for PSB DXing with a scanner; the majority of scanners on the market are designed for 50 ohm antenna inputs with Motorola-type plugs, and RG-59U is designed for use with 75 ohm equipment. While you might be able to adapt RG-59U to plug into your scanner's antenna input, there still would be an impedance mismatch. Although some might even argue that the mismatch wouldn't be too bad, it would not be good for DXing purposes. Since your antenna's impedance is designed to match 50 ohm coax, you should use 50 ohm coax. The most commonly used coax for PSB monitoring set-ups is RG-58U; however, RG-8U would be a better choice from a DXer's standpoint, due to much lower losses. RG-58U has a loss of 3 dB per 100 feet at 50 MHz. Low loss RG-8U has about 1.2 dB loss per 100 feet at the same frequency. On the VHF-high PSB frequencies, RG-58U will have a loss of more than 6 dB per 100'--compared to only slightly more than 2 dB for RG-8U. Losses are much more drastic on UHF, just as they are for TV lead in. On the UHF PSB channels above 470 MHz, losses for 100' of RG-58U are typically 18 dB and greater, compared with only about 5 dB for the same run of RG-8U! Thus, if you want to do some serious PSB DXing at high band VHF and above, you'll need good 50 ohm coax, such as RG-8U. The drawbacks of using RG-8U are that it is expensive (more than twice the price of an equivalent length of RG-58U) and requires an adapter to allow it to be plugged in to the scanner. However, if you're looking for DX on the PSB frequencies, the lower loss of RG-8U coax is well worth the price, especially if there's a long run of coax between your scanner and antenna. With RG-58U, you could easily lose any advantage that your antenna height gives you in DXing the higher bands.

**MORE ON AVIATION BAND SCANNERS...**In the May TECHNICAL TOPICS, we mention the new Regency "Digital Flight Scan" programmable scanner for 108-136 MHz DX. It should be noted that the new Bearcat 220 scanner also tunes the 108-136 MHz band, as well as all the regular PSB bands, and it's similar to their famous Bearcat 210 model.

## DX IMPROVES REMARKABLY BUT STILL BELOW PAR

This year's Es season finally got on track for many DXers during May after a nearly blank April. One relative newcomer was calling it a "blast", but for most others the May DX, especially Es wise, was a bomb since conditions remained below normal and in one case, at least, even more so than at the same time last year.

May's activity peaked around the 21 to 23rd. Several good Es openings and some Gulf tr were highlighted. Most tr stayed in the 300 to 600 mile range. Es was not real impressive since few loggings over 100 Mhz were made, but early June reports indicate the MUF has definately been up to 107.9 Mhz.

To top things out, an aurora logging made in Arkansas may raise a few eyebrows. Now on to the reports.

Neil Dickerson, 426 State St., Sharptown, MD 21861

Equipment: Panasonic Technics SA-5570, two Channelmaster ants. stacked at 50 ft., rotatable. New underlined.

1/27 tr			5/22 Es	
2010 <u>WNBP</u>	94.9 PA Harrisburg	150	1930 <u>WTBG</u>	95.3 TN Brownsville, g 790
2230 <u>WWDN</u>	104.7 MD Hagerstown	130	1930 <u>KSSN</u>	95.7 AR Little Rock, k 985
2/4			1932 <u>KSCS</u>	96.3 TX Ft. Worth, k 1300
0030 <u>WTJU</u>	91.3 VA Charlottesville	100	1935 <u>KWAM</u>	101.1 TN Memphis, g 855
0100 <u>WACC</u>	89.9 MD Arnold	60	1940 <u>KKYK</u>	103.7 AR Little Rock 985
5/16			1945 <u>WXBL</u>	105.3 LA Slidell 1000
2000 <u>WUOT</u>	91.9 TN Knoxville	460	1945 <u>KLJF</u>	105.1 TX Lufkin 1200
2100 <u>WZGC</u>	92.9 GA Atlanta, "Z-93"	600	1950 <u>KQUE</u>	102.9 TX Houston, "K-Q" 1275
5/18			1955 <u>KFXI</u>	100.7 TX Mt. Pleasant 1170
1900 <u>WRSV</u>	92.1 NC Rocky Mt.	225	2000 <u>KTAL</u>	98.1 TX Texarkana 1100
5/22 Es			2000 <u>KWTX</u>	97.5 TX Waco 1300
1740 <u>KSNS</u>	96.1 LA Lake Charles, "\$96"	1175	2025 <u>KALO</u>	95.1 TX Beaumont, "K-Lo-95" 1225
1745 <u>KKRG</u>	92.1 AR Fayetteville	1050	2030 <u>WNJC</u>	90.1 MS Senatobia 850
1750 <u>WJNS</u>	92.1 MS Yazoo City	930	2050 <u>KFUO</u>	99.1 MO Clayton 800
1800 <u>KSPJ</u>	95.5 TX Diboll	1225	2100 <u>KDQW</u>	92.7 AR De Queen, "FM 93" 1190
1800 <u>KAMA</u>	93.1 TX El Paso	1800	2107 <u>KPFT</u>	90.1 TX Houston 1275
1805 <u>KQTD</u>	93.1 LA Alexandria	1085	2120 <u>KPLN</u>	90.7 TX Plains 1590
1805 <u>KTYL</u>	93.1 TX Tyler	1210	2130 <u>KTCS</u>	99.9 AR Ft. Smith 1075
1810 <u>KOTN</u>	92.3 AR Pine Bluff	975	2145 <u>KYKR</u>	93.3 TX Port Arthur, Kicker rad. 1225
1815 <u>KTEP</u>	88.5 TX El Paso	1800	2150 <u>KRLY</u>	93.7 TX Houston, Disco 94 1275
1830 <u>KETR</u>	88.9 TX Commerce	1200	2200 <u>KLRE</u>	90.5 AR Little Rock 985
1830 <u>KCBI</u>	89.3 TX Dallas	1250	2215 <u>KIKK</u>	95.7 TX Houston 1275
1845 <u>KADL</u>	94.9 AR Pine Bluff	975	5/25 Es	
1855 <u>KMRC</u>	96.7 LA Morgan	1110	1400 <u>CMQ</u>	87.5 Havana Cuba 1300
1900 <u>KLAZ</u>	98.5 AR Little Rock	985	1430 <u>WFYN</u>	92.5 FL Key West 1100
1900 <u>WMC</u>	99.7 TN Memphis	855	1500 <u>WAFG</u>	90.3 FL Ft. Lauderdale, g 950
1910 <u>KFJZ</u>	97.1 TX Ft. Worth	1300	1530 ....	88.3 Cuban Ticker, very low mod.
1920 <u>WKBJ</u>	92.3 TN Milan	810	5/26 Es	
1926 <u>WCKW</u>	92.3 LA La Rlace, Ri. Parish Rad.	1500	1500 <u>CMQ</u>	90.5 Havana Cuba 1300
			1545 <u>WFYN</u>	92.5 FL Key West 1100

Pat-Dyer, 5315 Silvertip Dr., San Antonio, TX 78228 - Feb 1 - June 5, 1979 CST used

Equipment: Hallicrafters SX-62 with International Crystal model SAX-1 preamplifier(s); 6-el Archer FM ant. at 20 ft. with rotor. new underlined, t-tentative

5/3 Es			5/19 Es	
0959 <u>WPNE</u>	89.3 WI Green Bay	1190	1055 <u>KSUB</u>	92.5 UT Cedar City, k, ID 1005
1000 <u>WHA t</u>	88.7 WI Madison	1065	1110 f/outs	
1025 f/outs			5/20 Es	
5/11 Es			1706 <u>WNEV</u>	93.9 VA Marion, town ID 1100
1610 <u>WFNET</u>	89.3 WI Green Bay	1190	1710 <u>MUF</u>	99.3
<u>WHA t</u>	88.7 WI Madison	1065	1732 <u>WXNC</u>	92.5 NC Henderson, ad 1255
1620 <u>MUF</u>	to 94.7		1737 <u>WEQR</u>	96.9 NC Goldsboro, ad 1260
1622 f/outs			1755 <u>WRQK</u>	98.7 NC Greensboro, ad 1175
5/19 Es			1820 f/outs	spotty after 1800
0959 <u>KXTZ</u>	94.1 NV Henderson, ad	1040	1900-1920 unIDs	to 98.5
1000 <u>KILAt</u>	95.5 NV Henderson, g		5/22 tr	
1008 <u>KJJC</u>	98.5 NV Las Vegas, psa	1050	0832 <u>KGUL</u>	95.9 TX Port Lavaca, ID 135
<u>KENO</u>	92.3 NV Las Vegas, ID			
1014-40 lull				
1050 <u>KDXUt</u>	93.5 UT St. George, m	1005		

cont.

5/22 Es		5/29 Es	
0838 WTOct 94.1 GA Savannah, k	1050	0994 KSDZ 95.5 NE Gordon, ID	940
0940 WBIU 98.7 SC Beaufort, ID	1075	1000 KYSR 97.9 SD Rapid City, ID, g	1040
0846 WWVZ 93.5 SC Summerville, ID	1110	1010 KKHJ 93.9 SD Rapid City, ID, r	
0901 WRAS 88.5 GA Atlanta, ID	880	1016 KSID 95.3 NE Sidney, wx	845
0910 f/outs		1031 KOLL 93.5 WY Gillette, ID	1090
1940 WRVQ 94.5 VA Richmond, ad	1325	1040 f/out	
1943 WSEZT 93.1 NC Winston-Salem, Z-93	1150	1113 KBYUT 88.9 UT Provo	1045
1945 WQDR 94.7 NC Raleigh, ID	1230	KALLt 94.1 UT Salt Lake City, m	1080
1947 MUF 97.9		1116 KWHO 93.3 UT Salt Lake City, r, ID	
1959 WEQR 96.9 NC Goldsboro, ID	1260	1131 KNIS 94.7 NV Carson City, ID	1370
2003 WRNS 95.1 NC Kinston, ID, k	1275	1140 KCPXt 98.7 UT Salt Lake City	1080
2018 WHPET 95.5 NC High Point, g	1160	1142 KYA 93.3 MT Billings, ad, Y-93	1245
5/23 Es		1150 f/outs	
1201 KRAIt 93.7 CO Craig	910	5/31 Es	
1205 KQSW 96.5 WY Rock Springs	1025	2102 KWHot 93.3 UT Salt Lake City, r	1080
1220 KNEB 94.1 NE Scottsbluff, psa	900	2113 KSUB 92.5 UT Cedar City, k, ID	1005
1227 KSID 95.3 NE Sidney, twon ID	845	2115 KBYUt 88.9 UT Provo, drama	1045
1230-1255 lull		2123 KENO 92.3 NV Las Vegas, ID	1050
1259 KKHJ 93.9 SD Rapid City, ID	1040	2124 KUER 90.1 UT Salt Lake City, ID	1080
1305 f/outs		2125 KRBET 94.9 UT Cedar City	1005
1458 WEKUt 88.9 KY Richmond, KY psa's	995	KXTZt 94.1 NV Henderson, m	1040
1621 WESC 92.5 SC Greenville, ad, k		2127 KZANt 97.9 UT Ogden, k	1100
1629 WPRV 88.9 SC Rock Hill, net ID	1085	2130 KZEZ 93.5 UT St. George, m, ID	1005
1642 WOAYt 94.1 WV Oak Hill, promo		KLLAt 95.5 NV Henderson, g	1040
1649 MUF 99.1 then lull to 1710		2132 KLUct 98.5 NV Las Vegas, r	1050
1713 WHFI 94.1 MI Jackson, ads	1180	2212 KFACT 92.3 CA Los Angeles, c	1190
1730 f/outs(unIDs 88-90)		lull to 2235 then 92.5 and soon f/out	
2254 KUSDt 89.7 SD Vermillion, j	920	6/1 Es	
5/27 Es		1025 KFJMt 89.3 ND Grand Forks	1240
2050 KFSDt 94.1 CA San Diego, c	1120	1050 KYTnt 84.7 ND Grand Forks, m	
KYXYt 96.5 CA San Diego, m		1126 KEYA 98.5 ND Belcourt, psa	1335
KIFMt 98.1 CA San Diego		1135 f/outs	
2055 f/outs		1250 KCSnt 88.5 CA Northridge	1210
5/28 Es		KPCSt 89.3 CA Pasadena, lull to 1315	1185
1758 KZEZt 93.5 UT St. George, m	1005	1317 KPBSst 89.5 CA San Diego	1120
1759 KSUB 92.5 UT Cedar City, k, ID	1005	KYXY 96.5 CA San Diego, area ad	
1835 KENOt 92.3 NV Las Vegas	1050	1320 KEBRt 93.3 CA El Cajon, g	1100
1837 KALL 94.1 UT Salt Lake City, ads	1080	KWXYt 98.5 CA Cathedral City, m	1080
KCPX 98.7 UT Salt Lake City, r		1328 KPFD 94.1 CA San Diego, local ad	1120
1845 KUER 90.1 UT Salt Lake City		1330 KZLA 93.9 CA Los Angeles, r, ID	1190
1910 KNIS 94.7 NV Carson City, wx, r	1370	KLLAt 95.5 NV Henderson, g	1040
1930-1950 lull		1335 KJOIt 98.7 CA Los Angeles, m	1190
1957 KZAN 97.9 UT Ogden, ID, k	1100	KNACt 105.5 CA Long Beach	1180
1959 KBYU 88.9 UT Provo, c, ID	1045	2018 KVSrt 97.9 SD Rapid City, g	1040
2001 KWHO 93.3 UT Salt Lake City, ID	1080	2024 KKHJ 93.9 SD Rapid City, wx	1040
		2035 f/outs	

A rather sluggish FM Es season in May. MUF's not going very far into the FM band when they do get there. Only got thru 100 MHz once during the month (vs. 5 such openings last May). Also, the time open down some 34% from last May (620 min. vs 940 min.).

Vernon Eaton, 82-Springhill Acres, Benton, AR 72015 501-375-0143

My job took me out of DXing all of March and most of April. Starting with May, I got back into it good, finding a nice Gulf Tropo opening from SE to SW on 5/6 which lasted into the night and faded out. And then 30 hours later one of the most exciting things happened in my short 18 months of DX experience. I caught some good sun-up Tropo (very scarce for me this year) to the west and low and behold in comes KTYT 88.1, Lubbock, TX (585 mi.) perfectly clear and an actual ID within five minutes. My 100th freq. logged. Up to then the only sound I could get on that channel was short meteor burst, never knowing where it came from. The rest of May has been about as bad as I have seen. As of 5/31 it appears to be opening up again as our weather tries to get back to normal.

4/15 tr		5/6 tr	
1838 WEBQ 99.9 IL Harrisburg, ID, \$	225	2000 KUHF 88.7 TX Houston, ID, \$	360
4/24 tr		2015 KVTT 91.7 TX Dallas, ID, \$	275
1845 KIXS 93.3 TX Killeen, ID, \$	350	2023 KOUL 103.3 TX Sinton, ID, \$	580
1900 WKIR 104.1 TN Jackson, ID, \$	250	2030 KNCN 101.3 TX Sinton, ID	
Aurora:		2037 KZFM 95.5 TX Corpus Christi, ID	600
2018 WQMC 95.3 VA Charlottesville, ID	800	2050 KQIX 99.5 TX Ft. Worth, \$	285
4/25 tr		2125 KOOI 106.5 TX Jacksonville, ID	275
1638 WKTA 106.9 TN McKensie, ID	250	2208 KSUC 88.3 TX Keene	280
1639 KCOY 106.9 TX Conroe, ID	350	2215 WJJC 89.1 IL Mt. Carmel, ID	400
1705 KUDI 106.5 TX Jacksonville, ID	275	2238 WPCS 89.3 FL Pensacola	475

5/7 tr		5/14 tr	
2015 KMOX 103.3 MO St. Louis, ID	350	1820 WKIR 104.1 TN Jackson	275
2018 KADI 96.3 MO St. Louis		5/20 tr	
5/8 tr		0900 KVIU 91.3 TX Beaumont, ID	350
0755 KTXK 88.1 TX Lubbock, ID	575	5/23 tr	
(Yipee! My 100th freq. logged after two years trying. It came in very plain and was topped.)		1830 KVTY 91.7 TX Dallas, ID	275
5/8 tr		5/28 tr	
0805 KBID 92.9 TX Wichita Falls, ID, \$		0725 KOSU 91.7 OK Stillwater	275
0817 KPIX 99.5 TX Dallas, \$	275	5/31 tr	
KSCS 96.3 TX Ft. Worth, \$	285	0900 KIRS 92.7 MO Mountain Grove, ID	210
		1945 WJFR 96.3 MS Jackson, ID	275
		1952 KSCS 96.3 TX Ft. Worth	285
		2100 KFJZ 97.1 TX Ft. Worth	285

Randall B. Clark, Rt. 5, Dutch Ridge, Parkersburg, WV 26101 - May 11 to June 2 EDT

Hello! MY HAVE THING'S CHANGED!--Es is finally picked up to what would be termed "1977 levels." Yes I'd have to agree with Mike Dalton's observations about these Es openings coming in cycles--just about the same would go for the "super-trop" openings as well!--very interesting!.....also the comment to Vernon Eaton's report about Es not being affected by the weather is not quite accurate. Some propagation experts believe that Thunderstorms may have SOMETHING to do with Es cloud formation especially with very violent types of thunderstorm activity. (SEE Feb-77 VUD p. 23.) (What I was trying to get across was not to connect Es with the weather going on at the time of the opening. DB)

I recently paid a visit to WTFDA'er Robert Eddy, Newport, OH. Speaking of an antenna farm!--He has an article in the works about his FM rhombic which is a HUGE antenna!!

I hope to see a lot of fellow DXers at this year's WTFDA convention in August. If there are any persons who are interested, I may give a lecture on remotes....STILL interested in hearing from those persons having info on the remotes

HERE'S HOPING THAT SKYLAB WON'T HIT YOU!

Just think of the ionization trail it will leave! Here's your chance for all of you MS fans for some DX via this space Debris.

5/11 tr		5/20 tr	
0143 WUWZ 103.5		1132 WVAQ 101.9 ID's as "Q-102" & "Album-102"	
2135 WCLG 100.1 (like a LOCAL!)		11?? WJER 101.7 OH Dover	
other area northern stns in super!		5/29	
5/18 Es		0949 WSGS 101.5 KY Hazard	
1145-47 unID stn in w/ pledges, etc., gave a WATTS line no. 1-800-662-5797 (WHERE?!?)		5/30	
MUF peaked around 93 Mhz or so. Opening faded from FM by 1215.		Most Columbus, etc. stations in PLUS.....	
		0236 WDFW 94.3 OH Marion, switching tx for unknown reason	

JUNE

6/1 Es			
1309 KILQ 93.9 CO Colorado Springs (finally a real good Es opening!-ah!)			
MUF shot way up past 100 MHz!! , state No. 17! "Kilo-94"			
1340 KOAQ 103.5 CO Denver, ID as "Q-103"			
1356 KTCL 93.3 CO Ft. Collins.....at 1347-141? "Lunchtime-Little Theater"			
		with Steve Martin and others & Chevie Chase	
Es out by 1500 EDT, MUF 107.9+!		(a real hilarious lunchtime treat indeed!)	
1523 WOMC 104.3 MI Detroit and WELA & others			

6/2 tr  
0920 WQRS 105.1 MI Detroit, plus both WOMC, WRIF, WGCL and many, many others!  
Apparently we are in the midst of a "Semi-Super trop" duct that is rather intense!  
1150 CKLW 93.9 ON Windsor, QSLing!  
Throughout the day...WQOD, WSRD, WVUD, WHIO, WIOT, etc  
Including WKFI 102.3 (Class A freq.) at 2145 (PHEW!, I got out 10 QSL reports within past week.)  
Sunday had remnant's of Saturday's Tr DX. A Patrolman-6 Multi-band used.

John Combs, 2485 Ivan Court, Orlando, FL 32807 - May 11 to June 3 EST

5/11 Es		5/16 tr	
1830 KERA 90.1 TX Dallas-Ft. Worth	965	0040 WBEU 98.7 SC Beaufort	290
(w/pledge drive, had to leave just as MUF reached here, but subsequent check on car rx showed nothing more).		0050 WCLF 104.1 FL Tallahassee	230
5/16 tr		0105 WBGW 98.9 FL Tallahassee	
0030+Savannah FMs	240	1645 WPXI 95.1 SC Charleston	305
0030 WFSU 91.5 FL Tallahassee	230	1645 WXTX 96.9 SC "	"
full quieting--I thought WPRK was still on.		1648 WEZL 103.5 SC "	"
0037 WIGA 95.9 GA Valdosta	200	1650 WSCI 89.3 SC "	", (under WPIO)
		1654 WKTM 102.5 SC "	"
		cont.	



5/19 tr  
 2135+Savannah FMs  
 2142 WHHR 106.3 SC Hilton Head Island  
 2150 WBEV 98.7 SC Beaufort 290  
 5/21 tr  
 0717 WPAP 92.5 FL Panama City 270  
 0723 WPFM 107.9 FL Panama City  
 0725 WML? 101.9 LA New Orleans, tent.  
 0729 KPPT 90.1 TX Houston 855  
 0730 KUHF 88.7 TX Houston, s/on  
 0732 KLEF? 94.5 TX Houston, Tent.  
 0735 KMQJ? 102.1 TX Clear Lake City, Tent.  
 0740 KRLY? 93.7 TX Houston, Tent.  
 (92-108 largely blocked by in-state, sub-200 mile semi-locals--the two educationals were near full quieting--HAD to LEAVE at 0745!! Shazbot!)

At this point, I have decided to delete all loggings under about 250 miles, new or re-log, unless I deem them particularly outstanding or unusual.

2220 WBLX 92.9 AL Mobile 415  
 "Beat of the Bay"  
 2235 WKRG 99.9 AL Mobile, "G-100"  
 2309 WOOF 99.7 AL Dothan 300  
 2310 WRTB 96.9 AL Enterprise 325  
 2329 WGFU? 96.7 MS Gulfport, Tent.  
 2339 WKCG 90.7 FL Panama City 270  
 2340 WPAP 92.5 FL Panama City 270  
 2400 Dropped FM to concentrate on TV  
 5/21 tr  
 0628 WTVY 95.5 AL Dothan 300  
 0628 WIRB 96.9 AL Enterprise 325  
 0629 WQHQ 98.1 AL Andalusia 350  
 0630 WAYD? 103.9 AL Ozark, Tent.  
 0630 WPAP 92.5 FL Panama City 270  
 0635 WMTM 93.9 GA Moultrie 245  
 0637 WALT 97.1 MS Meridian 510  
 0638 WJAD? 97.3 GA Bainbridge, Tent.  
 0640 unID 97.7 w/gospel, evangelist  
 0641 WSLY? 99.3 AL York, Tent.  
 (wx forecast, ment, SE MS)  
 0642 WKRG 99.9 AL Mobile 415  
 0644 WDAL 101.3 MS Meridian 510  
 0647 WKXB 102.7 FL Milton, Tent.  
 0652 WCPC 104.5 GA Albany 245 245  
 0654 WTBI 105.7 MS McComb 565  
 0655 WPFM 107.9 FL Panama City 270  
 0705 WTSU 90.1 AL Troy 355  
 0715 unID 102.7 ?? w/gospel  
 0732 WBHM 90.3 AL Birmingham 470  
 0733 WFTW 99.9 FL Ft. Walton Beach 330  
 0733 WYOK 99.5 AL Birmingham 470  
 0738 WOOF 99.7 AL Dothan 300  
 0738 WTUN 100.1 AL Selma 435  
 (farthest Class A Troop)  
 0815 Had to Leave....  
 1500 WPFL 88.9 FL Winter Park, 10 watts  
 (Back on after many months of silence!)  
 Es:  
 1708 WEMY 89.1 MI Ypsilanti 960  
 1708 WMMV 90.1 MI Marquette 1315  
 1708 WKAR 90.5 MI East Lansing 990  
 1710 WIAA 88.3 MI Interlochen 1160  
 1711 WUOM 91.7 MI Ann Arbor 960  
 1717 WKJF 99.3 MI Cadillac 1130  
 1721 WHWC 88.3 WI Menomonie 1185  
 1726 WHLA 90.3 WI La Crosse 1170  
 1728 WHRM 90.9 WI Wausau 1160  
 1730 WQUC 90.9 OH Cincinnati 740  
 1730 WHAD 90.7 WI Delafield 1085  
 1735 WJAI 92.9 OH Eaton 790  
 1738 WVIC 94.9 MI East Lansing 990

Combs, cont.

5/21 Es  
 1740 WHWL 95.7 MI Marquette 1315  
 1740 WZZR 95.7 MI Grand Rapids 1065  
 1740 WHNN 96.1 MI Bay City 1040  
 1749 WLAV 96.9 MI Grand Rapids 1065  
 1759 WHBD 95.9 OH Archbold 915  
 ("Voice of the Cincinnati Reds")  
 1800 WWJ 97.1 MI Detroit 965  
 1802 WKLT 97.7 MI Kalkaska, new on air 1145  
 1803 WKQC 98.1 MI Saginaw 1040  
 1810 WLEN 103.9 MI Adrian, w/police blotter  
 1812 WOMC 104.3 MI Detroit, w/Italian 965  
 1814 WGER 102.5 MI Bay City 1040  
 1815 WPOS 102.3 OH Holland 910  
 1818 WLQR 101.5 OH Toledo 920  
 1819 WNCO 101.3 OH Ashland 835  
 1823 WDRQ 93.1 MI Detroit 965  
 1824 CKLW 93.9 ON Windsor 960  
 1825 Had to leave once again--BUSY DAY!!  
 (MUF at least 105 Mhz--many unIDs and tents too numerous to mention!)

5/28 tr  
 0859 WJAD 97.3 GA Bainbridge 240  
 0900 WIRE 96.9 AL Enterprise 325  
 0903 WTVY 95.5 AL Dothan 300  
 0905 WPAP 92.5 FL Panama City 270  
 0906 WPFM 107.9 FL Panama City 270  
 2133 WFPAM 91.1 FL Jacksonville, 930w. 120  
 2305 WKXM 102.7 FL Milton 400  
 2310 WPFM 107.9 FL Panama City 270  
 2314 WAFB? 107.3 FL Pensacola, Tent.  
 2315 WBOP 101.5 FL Pensacola 400  
 Next four Es:  
 2324 KTXT? 88.1 TX Lubbock, Tent.  
 2325 KERA 90.1 TX Dallas 965  
 2325 KSUC 88.3 TX Keene 985  
 2342 KVTT 91.7 TX Dallas 965  
 More Tr now!  
 2350 WKGC 90.7 FL Panama City 270  
 2359 WTSU 90.1 AL Troy 355  
 2359 WRES? 105.7 AL Troy, Tent.  
 5/29 tr  
 0002 WPGS 89.3 FL Pensacola 400  
 0003 WMEZ? 94.1 FL Pensacola, Tent.  
 More Es!  
 0119 unID 91.7 ?? on & off testing w/oc  
 0120 KBID? 91.7 TX Wichita Falls, Tent.  
 (very confusing day with Es & Tr at same time!)

5/30 Es (another busy opening!)  
 1924 CJRT 91.1 ON Toronto 1060  
 1932 CHAY 93.1 ON Barrie 1095  
 1952 WBFO 88.7 NY Buffalo 1005  
 (Have they upped power? In solid for two hrs.)  
 1955 WBUP 92.9 NY Buffalo 1005  
 2007 WCRQ 96.9 NY Buffalo 1060  
 2014 CKFM 99.9 ON Toronto 1060  
 2015 WDCX 99.5 NY Buffalo 1005  
 2035 CFPL 95.9 ON London 1010  
 2036 WHLD? 98.5 NY Niagara Falls, c, Tent.  
 2039 WMHR 102.9 NY Syracuse 1035  
 2043 CFMP 101.5 ON Peterborough 1115  
 2045 CKOZ 99.1 ON Toronto 1060  
 2045 WHPM 98.9 NY Rochester 1050  
 2050 WHCV 97.3 NY Ithaca 990  
 2056 WDUQ 90.5 PA Pittsburgh 830  
 2059 WCPA 93.5 PA Clearfield 855  
 2130-MUF sharp dive to Ch. 4--may have topped 107.9 at one point--for each station  
 IDed there were at least 3 or 4 unIDs.  
 6/1 Es  
 1100 KSMV 91.1 MO Springfield, wx, ID 895  
 (plus many other 88-92 unIDs)

6/2 tr		2038 KPFT? 90.1 TX Houston, tent.	
2030 Charleston FMs	310	2038 KIXS 93.3 TX Kileen, local ads	1005
6/3 Es		2041 KAMV 90.9 TX College Station, ID	905
2035 KSUC? 88.3 TX Keene, tent.		2157 KWIT 90.3 IA Sioux City	1330
2038 KERA? 90.1 TX Dallas, tent.		2210 WOI? 90.1 IA Ames, tent.	

(plus several 88-92 uNIDs--200-300 mile tropo confusing situation)

Am I ever having a blast on FM!! I'm only sorry that I didn't get serious about it earlier. It's really a trip to hear those Es loggings coming in with full quieting and stereo!! Lots of Es and some surprising mid-month tropo (which usually doesn't occur to any great degree after May 1st) have kept this a busy month. If things continue as they have been, I predict that this year's peak period will see many hours-long openings topping 107.9! So far it looks like the best summer ES here in several years! Log at 203.

Danny Buntin, 1020 S. Duncan, Stillwater, OK 74074 CDT

Equipment: Pioneer TX-9100 tuner, Antennacraft 10 el. ant., 3/4 ft. high, rotorized.			
6/8 Es		6/8 Es	
2042 WPXI 95.1 SC Charleston	1030	2133 WSHG 106.3 SC Georgetown, wx	
"Super 95 Soul"		2147 WQDR 94.7 NC Raleigh, ID	1060
2058 WKTM 102.5 SC Charleston, ad, ID		2202 WXYR 93.5 SC Columbia	
(all other Charleston pre-logged freq. in)		2231 WYAK 103.1 SC Surfside Beach, "Yak rx"	
2101 WAGC 90.7 GA Augusta	890	2235 WGBE 97.7 SC Georgetown	
2102 WMFR 88.1 SC Sumter		2238 WORG 103.9 SC Orangeburg	
2111 WPJS 106.7 SC Orangeburg	920	2241 WFOX 97.1 GA Gainesville, "97 Fox" 965	
2124 WDDM 101.3 SC Sumter		2244 WPKT 98.3 SC Kingstree, ad, ballgame	

Es above represents the end of a nearly year long drought of no major dx here. It sure was blessed relief when it came even though the opening wasn't very wild by my standards. The MUF was 107.5 but faltered to the ed. band several times before ending at 2306. Things will have to do a lot more picking up if this June is going to be any better than last year. It's interesting noticing how the more easterly DXers netted the lion's share of the openings while we Westerners fared poorly in comparison.

I don't know yet if I'll make it to the WTFDA convention, but I hope to see a lot of people there if I attend. 73.

Rick Samford, 404 S. McNeill, Burnet, TX 78611 - May 7 to June 7 CDT

Equipment: Kenwood Kr-5400 rx, 10-el. Archer FM at 24 ft. w/Alliance U-100 rotor;			
Realistic #120665 AM-FM port. used frequently as Es monitor.			
5/7 tr		0928 KBIM 94.9 NM Roswell, ID	
2230 KGFO 98.5 OK Tulsa, ID	390	5/18 tr	
2237 KTFK 106.9 KS Topeka	585	0900 KGFO 98.5 OK Tulsa, ID	390
"Country-107" T-shirt promo, ID		0900 KRAV 96.5 OK Tulsa, "FM-96"	
5/8 tr		5/20 Es	
0022 KGKN 94.1 KS Kansas City, ID	605	1842 WKNC 88.1 NC Raleigh, wx, ID	
0045 KXCV 90.5 MO Maryville, ID	685	1850 WSTS 96.5 NC Laurinburg, ad	
r, pgm "Static & Stereo," a name which		1857 WQXT 94.1 GA Smyrna, Atlanta wx, MS prev.	
aptly described the signal here.		1900 WMBK 89.7 SC Columbia, ID	
0058 KCLI 95.3 OK Clinton, ID	325	1902 WATP 94.3 SC Marion, ad, ID	
0141 KSWT 107.7 KS Topeka, ID	585	5/21 tr	
0147 KJIL 104.9 OK Bethany, ID, g	325	0117 WRBqt 104.7 FL Tampa	985
0157 KMDD 97.5 OK Tulsa, ID	390	"Q-105-FM," wx but no local reference;	
0202 KMRJ 96.9 KS Pittsburg, ID	495	nonID again at 0121 and soon gone	
0858 KOBC 90.7 MO Joplin, ID	480	0124 WKSJ 94.9 AL Mobile, ID	610
0859 KLCG 97.9 OK Poteau, ID	360	0130 WAJB 107.3 FL Pensacola, ID, wx	
0900 KLAZ 98.5 AR Little Rock, ID	445	0200 WTDX 101.5 FL Pensacola, ID	665
0900 KSSN 95.7 AR Little Rock		5/23 Es	
0907 KWOC 106.9 OK Clinton, ID	325	0910 TGHT 98.6 GU Guatemala	
0924 KSEL 93.7 TX Lubbock, ID	290	"Radio Mundial," Guatemala mentioned	
0939 KKYK 103.7 AR Little Rock, ID		0920 TGRTt 88.8 GU Guatemala, "Radio Fabulosa"	
1359 KMAC 99.1 AR Ft. Smith, ID	385	0922 TG??t 88.1?GU Guatemala, "Fabuestereo"	
1404 KGCC 89.7 TX Denison, ID	225	1759 WFDD 88.5 NC Winston-Salem, wx, ID	
2353 KLLS 94.3 OK Okmulgee, s/off	355	1800 WDAY 89.7 TN Chattanooga, ID, tr prev.	
5/9 tr		1800 WDAV 89.9 NC Davidson, ID	
0014 KBIM 94.9 NM Roswell, ID	410	1813 WCYZ 95.5 MI Detroit, ID, "Cozy"	
0017 KPER 95.7 NM Hobbs, ID	315	1815 WMZK 97.9 MI Detroit, ad	
"96-Country"		1832 WAUP 88.1 OH Akron, wx, ID	
0050 KTKM 99.9 NM Clovis, ID	380	1834 WHBC 94.1 OH Canton, ad	
0124 KBUY 94.1 TX Amarillo, ID, nx		5/28 Es	
0200 KANU 91.5 KS Lawrence, s/off	585	1923 KSUB 92.5 UT Cedar City, ID, k	
end of "Jazz in the Night"		1925 KBRE 94.9 UT Cedar City, wx	
0216 KCNC 97.9 TX Amarillo, ID	365	1926 KKEZ 93.5 UT St. George	
0254 KCKN 94.1 KS Kansas City, ID	605	Washington county psa	
0300 KYTX 98.7 TX Amarillo, ID, "KY-99"		1958 KSIH 94.9 ID Pocatello, ID	
0859 KWGS 89.5 OK Tulsa, ID	390	1958 KQSW 96.5 WY Rock Springs, ID	

Samford, cont.

5/28 Es  
 2000 KID 96.1 ID Idaho Falls, ID, NBC nx  
 2000 KVEL 92.7 UT Vernal, ID  
 5/29 Es  
 1130 KROE 94.9 WY Sheridan, ad  
 1148 KOLL 93.5 WY Gillette, ID  
 1154 KSUB 92.5 UT Cedar City, ID  
 5/31 Es  
 2231 KZEE 93.5 UT St. George, ID  
 2233 KSUB 92.5 UT Cedar City, wx  
 2236 KILA 95.5 NV Henderson, ID  
 2237 KENO 92.3 NV Las Vegas  
 2239 KLUC 98.5 NV Las Vegas  
 6/1 Es  
 2228 KILA 95.5 NV Henderson, ID  
 2230 KLUC 98.5 NV Las Vegas, ID  
 2235 KORK 97.1 NV Las Vegas, ad, ID  
 2241 KXTZ 94.1 NV Henderson, "Ecstasy"  
 2241 KENO 92.3 NV Las Vegas  
 2258 KFIG 92.9 AZ Flagstaff, ID

6/1 Es  
 2301 KSUB 92.5 UT Cedar City, ID  
 2308 KANW 89.1 NM Albuquerque, NM State Highway Dept. psa (Albuquerque road work) very short skip, "Disco-89".  
 2323 KROQ 106.7 CA Pasadena, "K-Rock wx"  
 2327 KWST 105.9 CA Los Angeles, "K-West"  
 2330 KKGO 105.1 CA Los Angeles, ID  
 2332 KBBY 95.1 CA Ventura, ID  
 6/2 Es  
 0000 KZZZ 92.7 AZ Kingman, "K-Triple-Z"  
 6/4 tr  
 0918 KVRN 92.1 TX, ad 145  
 mono, K, w/TX State News, "Cavern" slogan but no Sp.  
 6/5 Es  
 1224 WTOC 94.1 GA Savannah, nx promo  
 1230 WSNT 94.3 GA Sandersville, ID  
 6/7 tr  
 1101 KQTZ 105.9 OK Hobart, ID 290  
 new station on air, r, "KQ-106"

REPORT YOUR FM DX TO THIS COLUMN IF YOU ARE FROM: AL, AR, AZ, CA, CO, DE, FL, GA, KS, KY, LA, MD, MS, NC, NM, NV, OK, SC, TN, TX, UT, VA, & WV, AND MEXICO

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+++++

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 Whiting, IN 46394

WTFDA member ads only. 3 line or 30 word limit.

WANTED - Broadcasting Yearbook 1978 or 1979 only. State condition, asking price. Richard E. Wood, 1943 Carolina Lane, Cape Girardeau MO 63701.

TRADE - Will trade my Southwestern Ontario edition TV GUIDE for your area edition on equal basis. Need 1 of each area only. Ship yours to: Robert S. Ross, Box 4373, Stn. C, London, Ontario N5W 5J2.

FOR SALE - ATARI C-380 color TV game: works on channel 3, good for antenna testing. Also great fun. Pinball type. Needs 6 "C" cells, and a switch box. \$30 shipped UPS. Bob Grant, 5775 Bishop, Detroit, MI 48224. (313) 884-3025.

FOR SALE - 1 YAESU FRG-7 communications receiver in good condition. Price \$300.00. Write: Arthur Williams, Jr., 576 Springtown Rd., New Paltz, NY 12561 or call (914) 658-9467.

Your non-commercial ad can appear in the VUD free of charge! Got a piece of DX gear you'd like to sell? Looking for something? Advertise in STATION BREAK.

# EASTERN TV-DX

Robert Kramer  
3406 W. Pierce  
Chicago, IL 60651

Deadline: 10th

JULY 1979

Although there hasn't been as much as we would like, E-Skip has improved over last year. Already there have been 2 openings into the FM band, one as high as 107 MHz. For the most part these openings have been confined to the South and Southwest, although there are a couple of exceptions. Trop has been virtually nonexistent, with most reports well under 300 miles. This may not be a bad sign; however, as last year was close to the same. Trop didn't open up until late June, but by early July, the results were unbelievable. Hopefully the same will occur again this season.

Ken Simon 513 6th Ave. S. Lake Worth, FL 33460 (EDT)

MAY	22 Es 1345	United 3	3/4 CB	23 Es 2000	United 4 ABC
2 Es 1859	XEW or YNTC-2	1548	United 2 ABC 1011	2141	United 2
	1910 CCI 3	1556	United 3 CBS		Record Ad,
	1920 United-2 R&R	1600	KIII-3 TX 4444	26	2050 WJBK-2 MI 3022
	record ad,	1857	United 2 CBS		2058 United 3 NBC
	McAllen Address		United 3 NBC		United 3 CBC EE
	1925 United-2	1900	WREC-3 TN 3111	27	1650 United SS movie
	1929 United-2 Canal 2	1903	KTVI-2 MO 2111		XE?
	1930 United 2	1905	United 6 3011		1736 United SS movie
4 Tr 1518	WJCL-22 GA		Ill. map		1800 United ID SS
5	0647 WJKS-17 FL		"MUF to 107"		"Su Canal dos,
	WJCL-22 GA	23 Tr 1736	WJCL-22 GA 4555		XEM?"
6	1222 WJKS-17 FL	Es 1939-48	United 3 & 4		1836 TGV-3 Guat. 5525
	WCJB-20 FL	1954	KATC-3 LA 4332		2027 United 2 ABC
11 Es 1336	United-3 ABC	2000	KBTX-3 TX 2011	28	1825 WIFM-3 PR 3111
Tr 2119	WCJB-20 FL	KPRC-2	TX 4222	30	1928 CKVR-3 ON 3124
22 Es 1345	United-2 Ed.	KIII-3	TX 2111		2030 United EE Edu ?

Jeff Wolf 1131 University Blvd. W. Apt. 701 Silver Spring, MD 20902 (EST)

November 1978	6 Tr 2340	W44AA-44 WV	6 Tr 2205	W60AB-60 WV	(86)
1 Tr 0015	WPTF-28 NC T	(XLTR WVU-24)		Hampshire & Morgan	
0057	WCPI-12 NC (269)	2352	WTAF-29 PA	County rural area	
0120	WVEC-13 VA (158)	7	0008	WPHL-17 PA	(WVU-24 XLTR)
0152	WXEX-8 VA		0013	WXTV-41 NJ (196)	1943
3	2313	WXTV-41 NJ (196)	0040	WCMC-40 NJ (119)	7
		Patterson		Wildwood	2344
4	0015	WWBT-12 VA	9	1930	WUAB-43 OH (293)
0133	WPTF-28 NC (251)			Lorain	16
0236	WHP-21 PA (90)		2026	W44AA-44 WV	0830
	Harrisburg		0045	WPGH-53 PA (187)	0900
0237	WNCT-9 NC (243)			Pittsburgh	0938
0259	WPIX-11 NY		2300	WFGH-53 PA (187)	W79AX-79 VA (88)
0731	WITF-33 PA		12	0005	WPTF-28 NC (251)
0810	WPTF-28 NC (251)			0130	WNCT-9 NC ?
0900	WLVT-39 PA (136)			0157	WVEC-13 VA (158)
	Allentown		13 ES	2103	United PBS
1927	WXTV-41 NJ				through WMAR
2218	WNJM-50 NJ ?		2144	KNOP-2 NE (1234)	19
	WNJB-58 NJ ?			North Platte	1754
5	0010	WVIT-30 CT (283)		2205	Slight CCI 2
	New Britain		20 Tr	2215	WPTF-28 NC (251)
0026	WXTV-41 NJ (196)		24 Tr	0800	WPTF-28 NC (251)
0105	WYAH-27 VA				W60AB-60 WV ?
0139	WNJT-52 NJ (152)				December
	WNJM-50 NJ (195)		5 Tr	2305	WWBT-12 VA
	Montclair		6	0715	WTAF-29 PA
0224	WPTF-28 NC (251)			0732	WLVT-39 PA ?
0243	WHYY-12 PA			0800	WTVG-68 NJ (192)
6	0017	WWBT-12 VA		0900	WNJM-50 NJ (195)
2200	WNJT-52 NJ				WNJB-58 NJ (172)
2244	WXTV-41 NJ		0923	W42AC-42 VA (66)	January 1979
	WKBS-48 PA				25 Es 1655
2335	WNJB-58 NJ (172)				United 2
	New Brunswick				through WMAR
					2159
					Slight CCI 2



EASTERN TV DX

JULY 1979

Jeff Wolf Continued

15 Es 1802 Slight CCI 2 20 ES 1640 Slight CCI 2

February

11 Es 1916 Slight CCI 2 "On Nov. 3 I started using the Radio Shack "Golden U" twin bow-tie indoor UHF antenna. All of the time, with the antenna, I'm now getting WWPB-31 Hagerstown, MD with a weak and snowy picture, and W41AB-41 Madison, VA with a fair signal (moderate snow). I get very slight reception of WHAG-25 Hagerstown, MD and W44AA-44 Martinsburg, WV. My Apt. is 70 feet above ground, which probably helps reception".

Greg Monti 5 Hickory Road Bayville, NY 11709 (EST & EDT)

<u>April</u>	21 Tr 2217 WLVI-56 MA Cambridge	14 Tr 2230 Unided 44, Kup's show, WGEX?
21 Tr 2200 WHYN-40 MA	2225 WWLP-22 MA	CGI 17 (WPHL & ?)
2201 Unided 25 700 Club, prob. WXNE	Unided 57 WGBY?	Es 1929 WCBS-2 almost unwatchable
2202 Philly U's Hartford U's	<u>May</u>	WEAR-3 FL
2215 WEDN-53 CT Norwich	14 Tr 2222 Scranton/Wilkes-Barre U's Hartford U's	1930 WDSU-6 LA Alone, almost snow free.

Equipment: private home MATV system W/Winegard amp, 3 antennas, Zenith 19" color & B&W.

Steve Grimm Box 8322 Erie, PA 16506 (EST/EDT)

<u>March</u>	22 Tr 2000 WKAR-23 MI (230)	17 Tr 1830 WNDU-16 IN (318)
19 1945 Tr WCMU-14 MI (255)	WEYI-25 MI (212)	WEYI-25 MI (212)
WUCM-19 MI (221)	WUHQ-41 MI (274)	WGTE-30 OH (176)
WKAR-23 MI (230)	CBFLT5-15 ON (185)	WBCU-57 OH (185)
WUHQ-41 MI (274)	2130 CBFLT-?-34 ON	2350 WHME-46 IN (318)
WEYI-25 MI (212)	Pentanguishene	2400 WANE-15 IN (265)
Detroit U's (150) excellent	2230 WPNE-38 WI (432)	18 0010 WSBT-22 IN (318)
2000 WJBK-2 MI (150)	<u>April</u>	WFTA-21 IN (265)
WXYZ-7 MI (150)	22 Tr 1815 CBET-9 ON (145)	0015 WSJV-28 IN (300)
WTOL-11 OH (175)	WILK-10 MI (221)	22 Es 2000 WRBL-3 GA Columbus
2130 WNDU-16 IN (318)	1830 WANE-15 IN (265)	2015 WCTV-6 GA
WANE-15 IN (265)	WNDU-16 IN (318)	2020 WDIQ-2 AL (815)
WSBT-22 IN (318)	WGTE-30 OH (176)	Dozier
2145 WILK-10 MI (221)	WOUC-44 OH (163)	2025 WKRG-5 AL Mobile
2200 WFTA-21 IN (265)	WOSU-34 OH (212)	2100 WEAR-3 FL (912)
WGTE-30 OH (176)	<u>May</u>	2300 WPBT-2 FL (1098)
WFFT-55 IN (265)	10 Es 1940 KTBS-3 LA (1005) Shreveport	
22 2000 WNDU-16 IN (318)	2030 WPBT-2 FL (1130)	

MUF was up to ch.6 for a while (5/22, ed.), but CKGN made IDs tough. Didn't get one positive ID on Ch. 4, but something may show up in CGI."

Harry J. Hayes 9 Henry St. Wilkes-Barre, PA 18702 (EST & EDT)

<u>March</u>	10 Es 2345 WBRZ-2 LA	22 Es 1658 WDIQ-2 AL
4 Tr 1150 WENH-11 NH	12 2100 WBRZ-2 LA	1715 WEAR-3 FL
WNUR-9 NH T Manchester	through WCBS	1730 WKRG-5 AL
<u>May</u>	2200 KETS-2 AR	1735 WDSU-6 LA
10 Es 2000 WPBT-2 FL	15 2030 WDIQ-2 AL	2015 WPBT-2 FL
2100 WEAR-3 FL	WESH-2 FL	2200 WMAA-2 MS
WDIQ-2 AL	18 1250-1530 Strong 2-5 opening to Dakotas per Glenn Jacobs	

"This year's E skip season seems to be going the route of 1978's poor conditions. With the exception of one great 2 through FM opening on 5/22, there hasn't been too much else. I am DXing at two locations again this year: here, and at my parents home at Gouldsboro. At both locations I am using a combination, switchable, channel 2 & 5 quad loop, stretched along a wooden frame. The channel 2 element favors channels 2 & 4, while the smaller channel 5 element in the center of the frame favors channels 3, 5, & 6. An absolutely superior indoor antenna for the skip channels in my opinion. The channel 5 loop in the center of the Ch. 2 loop does not seem to produce a loss of gain in either loop as I had expected. For each loop I have used inexpensive lamp cord which works fine. Most of the skip openings have been occurring during the week when I am in the city, so my loop in Gouldsboro hasn't had too much of a workout. I have been thinking of trying an amplifier on them. This would pose no problem with locals, since I have no locals on VHF here, hi.

The WX as well as CX are miserable this Memorial Day weekend. If anyone has experimented with quad loops or would like information on them please contact me here or at my Gouldsboro address. I may make it to Baltimore this year.

Paul Mount 35 1/2 W. Columbus St. Nelsonville, OH 45764 (EDT)

May		June	
6 Tr 0300	WRTV-6 IN (225) Indianapolis	1 Tr 0159	WILX-10 MI T Onandaga
14	0206 WVA-6 WV (157) Bluefield	0203	WRIV-6 IN (225)
	0212 WRTV-6 IN (225)	0207	WTTV-4 IN (225) Bloomington
(At Hocking Tech. College)		2	0157 WLOS-13 NC (280) Asheville
31	0227 WDIV-4 MI		0431
			2 Tr 0235 WDIV-4 MI 0241 WTAE-4 PA (137) Pittsburgh 0245 WJIM-6 MI (260) Lansing 0250 WTTV-4 IN (225) WRTV-6 IN (225) 0431 WKW-8 OH (140)

"After rain most of Thursday, Friday (June 1) was mostly hot and partly sunny. Checking TV at midnight, local information station said, "Due to atmospheric conditions some channels are unwatchable. Except for no video from WCHS-8, nothing unusual noted, nor on FM. Makes me think I missed something big. Anyone having tips on taking TV photos using an instamatic? (An Instamatic is not a good camera for TV pictures because of its small lens opening and slow film speed. I don't think it is made, but you might try to find Kodak Tri-X film. Otherwise, make the room as dark as possible and the TV picture as bright as possible. My results with instamatic taken TV pictures were not encouraging, ed).

Bob Grant 5575 Bishop Detroit, MI 48224 (EST/EDT)

I had a rotten DXless, frreeeeeezzzzzing winter. My \$19.95 RCA antenna broke, so I put on a \$6.95 Radio Shack antenna. Result: semi-locals such as WJKW were gone. In April, the RS antenna broke, but the loop was still good. This meant that I could DX the U's on this RCA color 23". As for the V's, I had to run upstairs to use my GE 23" B&W TV (its not equipped for UHF). I will buy another antenna soon. Those of you who saw my last set of logs (Feb. 79 VUD), all loggings were new, and I also got WKBW-7 NY & WSJV-28 IN. But at the time they were partially identified because I didn't know the call letters. So on with the DX.

March		22 Tr 2105	WUTV-29 NY (205) Buffalo	19 Tr 2350	WICU-12 PA (145) 0000 WQLN-54 PA (145)
22 Tr 0555	CKGN6P-6 ON (140) 0615 CHCH-11 ON T "CCI on WTOL"	2250	CHCH-11 ON (170) "stronger than WTOL"	May	22 Es 2015
	2000 CCI on all locals				Unided PES 5 "My 1st Es"
	2015 CKGN6P-6 ON (140)	April		2025	WEDU-3 FL
2020	CFTO-9 ON T "CCI on CBET"	18 Tr 0200	WJET-24 PA (145)		Tampa
		19	2345 WJET-24 PA (145)		"1st Ided Es"

Robert Goodman 5129 Roosevelt Rd. Apt. B7 Cicero, IL 60650 (CST/CDT)

April		18 Tr 0558	WHMB-40 IN (160)	22 Es 1802-2240	WEDU-3 FL
12 Tr 0825	WTMJ-4 WI (80) 0827 WCIA-3 IL (120)		0624 WTHR-13 IN (160) Es 1055 Unided 2 & 3	1808	WJXT-4 FL (950)
	0900 WHBF-4 IL Rock Island		1100 WBE-4 MA (850) Boston	1815-2051	WTVJ-4 FL
17-18	"See notes"	22	1612-1730 Unided 2 1637 WTVJ-4 FL (1200)	1828-2240	WWAY-3 NC
May				1831-2204	WCIV-4 SC
4	0755 WFFT-55 IN (140)			1902-2240	WPBT-2 FL
17	2200 Rockfords (80) 2210 WMTV-15 WI (120)				Miami
	0500 WLFI-18 IN (110)		1644 WCIV-4 SC (750) 1648 WEDU-3 FL (1000)	1910-2034	WESH-2 FL
	0547 WICD-15 IL (120)		1722 WWAY-3 NC (750) Wilmington		"Both through a local"
	"See notes"			1823-2048	Unideds 5
				2050-2123	WCIX-6 FL
					Miami

"Details of 5/22 skip opening involve some interpolation, and are provided for E cloud tracing. 5/18 Es loggings and 4/12 logging of WHBF by tropo were at Pershing Convalescent Home (no I wasn't convalescing). I've still never seen WHBF-4 at my apt. All I saw here was some CCI on WTMJ; both loggings were essentially ground floor with whip built-in antenna. I must have blockage. Tropo started easterly overnight 4/17-18, returned the night of 4/18, then moved from east to north, but never built into much. Some tropo (S. Bend-Elkhart & ES Michigan) also seen April 3, 7, 10, 22, 23; May 1, 4, 21, 23, 25, 30. UHF antenna was indoor 2-bay until 0547 on 5/18; then I switched to indoor 4-bay. It outdoes the 2-bay on lower, but not upper channels.

Michael L. Hogan 13910 Chippewa Ave. Apt. 1 Burnham, IL 60633 (CDT)

May		20 Tr 0900	WKBD-50 MI (280) Detroit	22 Es 1855	WCIX-6 FL Miami
15 Tr 0700	WQRF-39 IL Rockford		WGPR-62 MI (280) Detroit	29 Tr 0700	WFFT-55 IN Ft. Wayne
20 Tr 0900	WTWS-56 MI (280) Detroit	22 ES 1830	WTVJ-4 FL Miami		(Log total: 97 stations)

"All of these loggings were made on a Magnavox 9" B&W portable w/a built in loop for UHF and built in whip for VHF. I hope DX CX will remain status quo for all of us so that we may fatten our totals and contribute them to TV Statistics, as well as other VUD columns.

Marvin Shults R.R. #1 Toulon, IL 61483 (CST/CDT)

<u>April</u>	23 Tr 0616	KMBG-14 IA	18 Es 1156	WFSB-3 CT
8 Es 2127	X???	2 Mexico	1229	WGBH-2 MA
		Matamoros, Tam.	1828	WPBT-2 FL
22 Tr 1945	WUAB-43 OH	0617 KHIN-36 IA		WESH-2 FL
		0618 WRTV-6 IN	1829	WYTV-5 FL
				WUPT-5 FL
				1856 WEDU-3 FL
1958	WKBN-27 OH	17 2129	WPBT-2 FL	1857 WDBO-6 FL
	WUTV-29 NY		WESH-2 FL	1932 WCIX-6 FL
1959	WGTE-30 OH	18 1059	WSYR-3 NY	2048 WCIX-6 FL
	WDHO-24 OH		1100	WCVB-5 MA
2010	WKMA-41 MO			2051 WTVJ-4 FL
	KYFC-50 MO	1130	CBFT-2 FL	28 Tr 0829
	Kansas City			WHAS-11 KY

"When I received the Matamoros station they used an English ad for a McAllen, TX firm. At 2130 on April 8 they also had an english movie beginning at the time. Apparently they are broadcasting at least part of their schedule in EE as I heard no SS during the period I received them. Their call letters have been listed as XHCR in the station guide, however, all they used was channel 2, Matamoros, Tamaulipas. On May 22 I was receiving WCIX-6, WDBO-6, & local WOC-6 all together at 2130. I watched the 2100 local news on WCIX and photoed their TV6 "Tallest Tower-Twice the Power" ID. 73."

Robert Kramer 3406 W. Pierce Chicago, IL 60651 (CST/CDT)

<u>CARBONDALE QTH</u>	29 Tr 2112	WSJV-28 IN (326)	14 1820	WLKY-32 KY
(14th floor of the dorm)		WUHQ-41 MI (388)		2128 WHAS-11 KY
October 1978		"Local Grade"		(Carbondale QTH, from
23 Tr 2010	KEMA-41 MO	WGVC-35 MI (412)		Mobile Home)
	KHIN-36 IA (395)	KRIN-32 IA (367)		<u>May 1979</u>
	KRIN-32 IA (367)	WKLE-46 KY	6 Tr 2135	WPTY-24 TN
2228	KYIN-24 IA (437)	WKMA-35 KY		Memphis
2234	WKOW-27 WI (327)	WKGB-53 KY		WNAV-18 MS
2240	KTIN-21 IA (428)	2118	KDUB-40 IA (346)	Oxford
2241	KTSB-27 KA (370)	2125	WCAE-50 IN	7 0015
2249	KDUB-40 IA (346)	2132	WKAR-23 MI (435)	Memphis
	WHME-46 IN (309)		WGTU-29 MI (524)	0040
2254	KSIN-27 IA (510)	2237	WDHO-24 OH (413)	WIBW-13 KA (370)
2307	WSNS-44 IL (302)		WREX-13 IL (310)	Topeka
	WSJV-28 IN (326)	30 0830	S. Bends (309)	0045
	WEAU-13 WI (512)		WLFI-18 IN	KTSS-27 KA
2317	WNIT-34 IN (309)		WKAR-23 MI (435)	KMTC-27 MO
	KWVL-7 IA (367)		WFLD-32 IL (302)	Springfield
24 0005	KCRG-9 IA (328)		WGVC-35 MI (412)	0130
0830	KYIN-24 IA (437)		WUHQ-41 MI (388)	KMTV-9 OK (494)
	WKOW-27 WI (327)		WSNS-44 IL (302)	Oklahoma City
	WSJV-28 IN (326)		WFFT-55 IN (312)	KTVH-12 KA (450)
	KHIN-32 IA (367)			Wichita
	KHIN-36 IA (395)			0200
	KDUB-40 IA (346)			WIS-7 IL (302)
	KTSB-27 KA (370)			9 Es 1820
	KEMA-41 MO			KTVQ-2 MT
	WHME-46 IN (309)			Billings
	WKGB-53 KY			1858
1113	WSNS-44 IL (302)			KDIX-2 ND
	"Snow Free"			Dickinson
	KCPT-19 MO			1930
	"Snow Free"			CKCK-2 SA
	KHIN-32 IA (367)			Regina
	"Snow Free"			10 1955
	KEMA-41 MO			KDIX-2 ND
	"Snow Free"			CKCK-2 SA
	1938			<u>Chicago QTH</u>
	WSNS-44 IL (302)			<u>December 1978</u>
	"Snow Free"			30 Es 1702
	WUHQ-41 MI (388)			KWAB-4 TX
	WFLD-32 IL (302)			1715
	WGVC-35 MI (412)			KNOL-4 TX
	WCIU-26 IL (302)			<u>January 1979</u>
	WSNS-44 IL (302)			3 Ms 0439
	WUHQ-41 MI (388)			WJXT-4 FL
	WFLD-32 IL (302)			0459
	WGVC-35 MI (412)			WRAL-5 NC
	WCIU-26 IL (302)			0500-0544
	WSNS-44 IL (302)			Multiple
	WUHQ-41 MI (388)			Unided bursts 7&8
	WFLD-32 IL (302)			<u>May</u>
	WGVC-35 MI (412)			14 Tr 0030
	WCIU-26 IL (302)			KPLR-11 MO
25 0037	WSBT-22 IN (309)	1149	WTHR-13 IN	0100
29 2122	Chicago U's (302)	1728	WKMJ-68 KY	WAND-17 IL
	S. Bends (309)	1820	WKPC-15 KY	0130
				KDNL-30 MO
				0518
				KFVS-12 MO (332)
				0539
				WHAS-11 KY
				WLKY-32 KY

Robert Kramer Continued

May		22 Es 2058	Television Nacional 3	1 Es 1000	KOB-4	NM
17 Es	2226	Weak 3 & 4	Cuba, Santa Clara		KMID-2	TX
18	1031	KOTA-3	SD T	23	1648	KENW-3 NM
	1050	KYW-3	PA T		1656	KGBT-4 TX
	1100	WBE-4	MA		1815	KIII-3 TX (1160)
	1428	CJBR-3	PA		1815	KGBT-4 TX
Tr	2356	WKED-50 MI (240)			1829	Severe CGI on
		WFFT-55 IN				WBEW-2
19	0000	WPTA-21 IN			1858	KPRC-2 TX
	0045	WKJG-33 IN			1920	KENW-3 NM
20	0445	WDIV-4 MI (240)			1950	KAMR-4 TX
		Detroit			2015	KWAB-4 TX
	0513	WXYZ-7 MI (240)			2020	KMID-2 TX
	0515	WBEW-5 MI (234)		28 Tr	0240	WKRC-12 OH
	0516	WFFT-55 IN		Ms	0513	WPMY-2 NC T 567
	0525	WJRT-12 MI (223)			0542	KTEW-2 OK T
		"Local Grade"				Tulsa (600)
	0527	WTOL-11 OH (220)		Es	2029	XEPB-3 Mex T
	0530	WEYI-25 MI (220)		29 Tr	0430	WKRC-12 OH
	0538	WTWS-56 MI (240)		Es	0958	KENW-3 NM
	0543	WSPD-13 OH (220)			1125	KENW-3 NM
		WDHO-24 OH (220)		Tr	2310	WKED-50 MI (240)
	0552	WXON-20 MI (240)		30	0007	WKJG-33 IN
	0601	WKED-50 MI (240)			0019	WLIO-35 OH
	0614	WKED-50 MI (240)				WFFT-55 IN
		"Local Grade"		Es	2257	WEDU-3 FL
	0649	WGPR-62 MI (240)		31 Tr	0510	WTOL-11 OH (220)
	0703	CKCO3-42 OH			WSPD-13 OH (220)	
22 Es	1810-2240	WEDU-3 FL		June		
	1810-2130	WTVJ-4 FL		1 Es	0925	KENW-3 NM
	1830	WJXT-4 FL (874)			0930	KFDX-3 TX
	1852	WCIX-6 FL (1208)				KAMR-4 TX
		Miami				

Since I began typing this, several other openings were noted. The loggings from these follow below.

JUNE		7 Es	1930	KGBT-4 TX	8 Es	2233	KACB-3 TX		
6 Tr	0440	WDIV-4 MI (240)		8	2055	KIII-3 TX	2326	KMOL-4 TX	
		WXYZ-7 MI (240)			2100	KGBT-4 TX	9	0001	XHCR-2 Mex
		WSPD-13 OH (240)			KENW-3 NM				Matamoros
	0550	WXON-20 MI (240)			2125	KDBC-4 TX	0040	KENW-3 NM	Severe CGI
7 Es	1930	KIII-3 TX			2158	KWAB-4 TX			on WBEW

The XHCR logging did not include call letters. All I could get was the name of the city, & the channel number. I am not even positive about it completely, because it is hard to ID something through a local 3 air miles away. XHCR appeared to be running an ID constantly (its still trying to superimpose in with WBEW now, at 0055). This ID was in script writing, city name on top, channel number in the middle, and something I couldn't make out below it. The writing is very small, and moves all over the screen because of the strength of WBEW. I also had this on June 1 for about 3-4 hours, but I couldn't figure out what it said. Marvin Shults' logging steered me in the right direction.

## SPTS '79 Oklahoma City, August 14-16

Are you interested in direct home reception of satellite TV signals? On August 14th, 15th, and 16th, the 1979 Satellite Private Terminal Seminar will be held in Oklahoma City. The seminar will feature the world's leading advocates of low-cost satellite TV reception equipment, and should be of great interest to anyone interested in microwave technology, with the emphasis on the practical aspects. Those attending will get to see how you can construct a satellite TV terminal, using currently available microwave surplus gear, for less than \$1000! For information on the seminar, contact Bob Cooper, Jr., Route 5, Box 364, Guthrie, OK 73044.



# VHF UTILITY DX

Pat Dyer  
5315 Silvertip Drive  
San Antonio, TX 78228  
Deadline: 5th of month

JULY 1979

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

2-24:  
2016 KFB975 42.50 San Jose, CA-sp (110 watts) — sp - state police  
2020 KMH963 " Chico, " " (144 w) mp - mobile phone  
3-11:  
1915 - 42.20 Sacramento, " " (100-120 w)  
3-16:  
2004 KGT444 42.34 Antelope Peak, " " (100 w)  
4-8:  
2210 KMA333 35.38 Fresno, CA-mp (Pacific Telephone & Telegraph)

My loggings. Hallicrafters SX-62, Hammarlund SP-600-JX-10, 2 30' wires at 12', ne-sw, nw-se runs; F2 unless noted (\* Es, bs-backscatter) with daily peaks noted; GMT used; 49.6+ Swan 250+Ameco nuv, 5-e Cush. @ 23'

5-6: 1325 30.30 D.Welle(Carib.rly.)-ha 2100 36's Spanish (Colombia ?) 2245 45.25 New Zealand (TV video) 2305 30.42 Canada, 30.475 Espinal 5-7: 1430 low-30 Canada 1655 30.475 Espinal, Colombia-ha 2115 45.35 Spanish, 2210 45.25 NZ 5-8: 2105 49.92 Spanish, 2259 30.475 2355 45.25 NZ 5-9: 0410 35.46 San Diego, CA-mp * 2020 42.04 Spanish, 2140 45.25 NZ 2334 KLF527 35.22 Honolulu, HI-tp 5-10: 2020 hi-39 Spanish, 2305 45.25 NZ 5-12: 1810 35.02 Brazil ? 5-13: 1910 low-30 Canada, 2015 35.22 Sp. 5-14: 2120 45.25 Spanish, 2220 45.25 NZ 2325 KLF527	5-15: 2100 40.99 Spanish 5-16: 1525 30.475 Esp., 1625 35.78 Brazil? 5-17: 1830 35.78 Brazil ? 5-19: 0004 44.27 (ssb) Latin America ? 5-20: 1715 30.80 harmonic 5-21: 2135 mid-38 Spanish 5-25: 2145 30.30 5-26: 0005 35.58 bs; 1638 32.96 Spanish 5-27: 1520 30.475 Espinal 5-28: 1630 30.475 Esp., 2200 32.96 Spanish 5-29: 0613 KOE257 35.22 Phoenix, AZ-tp * 6-5: 2110 38 Spanish (ha=harmonic; tp=tone pager)
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Still some good reports of 50-MHz conditions in the Pacific in May with Hawaii to New Hebrides and Australia, though not as often now.

The solar flux average for May fell to 166 (the lowest since November). However, if the first week of June so far is a reliable trend, then the 3-month slump may be at an end. Sustained levels over 200 had not been with us since February. However, F2 effects on VHF in the summer are limited anyway.

Got detailed information from the Broadcasting Corporation of New Zealand on their Ch 1's, with a total of nine instead of the 3 or 4 thought to be it. Will run more details on them soon.

Es sluggish with MUF's so far with nothing into the VOR's yet.

However, at 50 MHz multi-hop Es brought the Hawaiian beacon into NJ & CT. 2Es from TX to the Pacific nw fairly good while almost none to the ne...K4ERO/HCL (Pifo, Ecuador) has 50.03 cw beacon on now.

73, Pat

WA5IYX

35

# WESTERN TV-DX

July 1979

Fred McCormack  
Box 5221  
State University Sta.  
Fargo, ND 58105

Deadline: 5th

This month's reports indicate that the May Es this year has not been exceptional. There seems to have been considerably more Es activity in the south. I have been somewhat disappointed with DX here in Fargo. The openings have been intense at times, but almost always to the south. For variety, it would be nice to see some east-west DX paths.

New \_\_\_\_\_ New Mode\_\_ \_ Tentative - t Unidentified - unid.

Leo Boehl, 622 W. Koenig, Grand Island, NE 68801 CST  
Equipment: CM Quantum 1112 @ 35', AR22XL, CM 0263 preamp, Zenith 23"B&W(14N22)

## April 1979

9 tr 1055 <u>KSFY</u> 13 SD 200	21 tr*2300 <u>KOMU</u> 8 MO 300	22 tr*0115 <u>KTIV</u> 4 IA 175
(loc. KHGI off-repairs)	2310 <u>KTVH</u> 12 KS 200	<u>KCAU</u> 9 IA 175
11 tr 0125 <u>KTIV</u> 4 IA 175	2330 <u>KAYS</u> 7 KS 150	0146 <u>KTVH</u> 12 KS 200
21 tr*2245 <u>KNOP</u> 2 NE 150	*0045 <u>KAKE</u> 10 KS 230	(news/sign/off)
tr*2250 <u>KOAM</u> 7 KS 300	*0100 <u>KOMC</u> 8 NE 125	*during NBC Olympathon
	(always hidden)	

Opening the night of 4/21 was the best here since 9/14/78. Zenith went down shortly after this but is now almost back to shape. Now the preamp is starting to act up! I guess they just don't make juice like they used too. 73

Pat Dyer, 5315 Silvertip Drive, San Antonio, TX 78228 CST  
Equipment: 1976 model 9-inch b&w Penncrest, Archer V-100 and 8-bay bow-tie UHF antennas at 20 feet with rotor

## May 1979

2 tr 0040 <u>KOSA</u> 7 TX 280	3 Es 1559 <u>YSR</u> 2 ES 1200	9 Es 1600-1625 unids 2,3
Es 0055-0125 unids 2,3	1725 unid 2 sw	1615 <u>KDIX</u> 2 ND 1225
west, spotty	1759 <u>WPBT</u> 2 FL 1150	1740 <u>KTCA</u> 2 MN 1110
0725 unids 2,3	1915 <u>YSR</u> 2 ES 1200	1750 <u>WCCOT</u> 4 MN 1110
0800-0820 unid 2 n	2000 f/outs	1755 <u>KLNET</u> 3 NE 785
(meteor overlap)	4 Es 1205 <u>YSR</u> 2 ES 1200	1759 <u>KGFE</u> 2 ND 1240
0903	1208 <u>YSU</u> t 4 ES 1200	1815 f/outs
2 Cuba	1240 <u>TGV</u> t 3 Gu 1120	2000-2100 unids 2 ne
1055 ch3 Cuba net 6	1329 <u>Cuba</u> 2 (tp)	2118 <u>WBMM</u> 2 IL 1045
1115 lull after	1350 <u>WCBdt</u> 2 SC 1120	2122 <u>KCGO</u> 2 ON 1405
solar noise burst	<u>WWAY</u> t 3 NC 1250	2220 f/outs (cb tp)
1135-1220 unid 2	1359 <u>WSB</u> 2 GA 830	10 Es 1235-1325 unid 2 n/
59 <u>WTHS</u> 2 FL 1150	1420 <u>WDTN</u> 2 OH 1075	1700-1750 unid 2
1555 unids 2 spanish	1443 <u>WNGE</u> 2 TN 820	2055-2100 unids 2,3 n
1640 <u>XHBC</u> 3 BCN1010	1459 <u>WESH</u> 2 FL 1055	11 Es 1150 unid 2
<u>XEWOT</u> 6 Son 700	1505 <u>WAVE</u> 3 KY 945	1200-1245 unids 2,3 e
1655 <u>KNBct</u> 4 CA 1190	1600 f/outs	1315 <u>WEDU</u> 3 FL 985
1658 <u>KNXT</u> 2 CA 1190	5 Es 0800-0810 unids 2 ne	1332 <u>WESH</u> 2 FL 1055
<u>KTLat</u> 5 CA 1190	1030-1100 unids 2,3	1420 <u>YNTC</u> 2 Ni 1400
1800 <u>KTWO</u> 2 WY 1015	1225 unid 2 nw	1459 <u>Cuba</u> 2 tp
1830 unids 2-6	6 tr 0829 <u>KLRU</u> 18 TX 85	1620 (MUF to 94.7)
2059 <u>KUSD</u> 2 SD 920	(Austin //KLRN 9)	1629 <u>WDTN</u> 2 OH 1075
tr 2120 <u>KSOW</u> 7 OK 355	1405 <u>WBRZt</u> 2 LA 450	1659 <u>WJBK</u> 2 MI 1225
Es 2122 <u>WBAY</u> 2 WI 1190	<u>WAFBt</u> 9 LA 450	1700 <u>WKYC</u> 3 OH 1250
2123 <u>KMTvt</u> 3 NE 830	7 tr 0710 <u>KMCCt</u> 28 TX 340	1800 <u>KDKA</u> 2 PA 1280
2129 <u>KDLO</u> 3 SD 1070	0725 <u>KCBD</u> 11 TX 340	unids to 2040
2220 f/outs	<u>KIDZt</u> 24 TX 305 12 Es	1030-1035 unid 2
tr 2320 <u>XHX</u> t10 NL 275	1540 <u>XHABt</u> 7 Tamp250	1605 <u>TGV</u> t 3 Gu 1120
3 Es 0725 unid 2 w, brief	2215 <u>WRBTt</u> 33 LA 450	1610 <u>YNTC</u> 2 Ni 1400
0829 <u>KUTV</u> 2 UT 1080	<u>KPLct</u> 7 LA 325	1755 f/outs
0930 <u>WBMM</u> 2 IL 1045	<u>WAFBt</u> 9 LA 450	13 Es 1055 <u>YNTC</u> 2 Ni 1400
0950 unids 2-6	0439 <u>KPLC</u> 7 LA 325	1135 unid 2 (US)
(MUF 91MHz by 1020)	0443 <u>KMCC</u> 28 TX 340	1225 f/outs
1030 <u>KGFEt</u> 2 ND 1240	0500 <u>KSLA</u> 12 LA 350	15 Es 1935-2020 unids 2
1034 <u>KDLO</u> 3 SD 1070	Es 1635-1725 unid 2 sp.	1935 <u>WESHt</u> 2 FL 1055
1110 <u>KDIX</u> 2 ND 1225	2015 unid 2	2020 <u>WPBTt</u> 2 FL 1150
1155 f/outs	9 tr 0050 <u>KLBK</u> 13 TX 340	16 tr 0040 <u>KET</u> 6 NL 275
1535 <u>YNTC</u> 2 Ni 1400	0105 <u>KWTV</u> 9 OK 420	0845 unid 2
		1810 <u>KUTV</u> 2 UT 1080

Pat Dyer (continued)

May 1979

16 Es	1820 KTVXt 4 UT 1080	23 Es	0825-1015 unids 2	28 Es	1020-1030 unids 2 w
	1822 possible xltor		spanish ee/s		1120-1250 unids 2,3
	CCI on ch 2		1045 KWGN 2 CO 810		1229 KWGN 2 CO 810
	1915 f/out		1049 KOAT 4 CO 810		1310-50 unids 2,3
	2030-2120 KNXTt 2 CA		1135 KMTVt 3 NE 830		2-ap sw, others w/ne
17 tr	0447 KPLC 7 LA 325		1200 KTVS 3 CO 815		1359 KTCA 2 MN 1110
	1450-1455 unid 2 n		(MUF 96.5 at 1205)		1400 KDLHt 3 MN 1250
	1543 WBBM 2 IL 1045		1210 KRMAt 6 CO 810		1404 WCCOt 4 MN 1110
	1553 WKZO 3 MI 1140		1329 KDIX 2 ND 1225		1415 KSPTt 5 MN 1110
	1640 f/out nw		1359 WCBd 2 SC 1120		1428 KBJRt 6 MN 1250
	1925-2030 unids 2		WESH 2 FL 1055		1500 f/out
	2105 WFSXt 3 PA 1370		(MUF 90.1 at 1503)		1530-1700 unids 2-4s
	2108 KDKA 2 PA 1280		1525 WEWSt 5 OH 1250		1720 KVVUt 5 NV 1040
	2245 f/out		1529 WKYC 3 OH 1250		1735 KNXT 2 CA 1190
18 Es	1245-1320 unids 2 ne		1559 WSB 2 GA 880		1759 KID 3 ID 1215
19 Es	0925-1150 unids 2-5		1600 WTWO 2 IN 935		1800 KUTV 2 UT 1080
	(MUF 98.5 at 1008)		1602 WPMY 2 NC 1175		1820 KTVXt 4 UT 1080
	1120 unids 2,3		(MUF 99.1 at 1649)		1825 KSL t 5 UT 1080
	1230 KEYTt 3 CA 1270		1645 WLACT 5 TN 820		1829 WBAY 2 WI 1190
	1234 KNXT 2 CA 1190		1659 WNGE 2 TN 820		KORK 3 NV 1050
	KNBCT 4 CA 1190		WSAZ 3 WV 1100		1857 KCRa 3 CA 1405
	1259 KBCI 2 ID 1370		WOAI t 4 WV 1150		1859 KTWO 2 WY 1015
	1430 f/out		1759 KUSD 2 SD 920		KWGN 2 CO 810
	1500-1520 unids 2		1800-1940 unids 2-6		1900 KRMAt 6 CO 810
	1955-2035 unids 2 e		(MUF 90.1 at 1905)		(MUF 103.5 at 2017)
	2225 unid 2		1859 KBJRt 6 MN 1250		2100 WWAY 3 NC 1250
20 Es	0040 unid 2 n		1944 WISC 3 WI 1065		2130 WSAvt 3 GA 1050
	1115 unid 2 e		(MUF 89.3 at 1955)		WCIVt 4 SC 1120
	1600 KNXT 2 CA 1190		2113 KDIX 2 ND 1225		2211 WPMY 2 NC 1175
	KEYTt 3 CA 1270		2254 KDLH 3 MN 1250		2225 WBTV 3 NC 1105
	1659 WSJK 2 TN 1010		(MUF 89.7)		2315 KOAI t 2 AZ 855
	unids 2-5		2304 KTVQ 2 MT 1245		f/out
	(MUF 99.3 at 1710)		Ch3 ID logo for	29 Es	0025 unid 2
	1827 KNXT 2 CA 1190		KUTV, xltor?		0030 KORK 3 NV 1050
	(MUF 98.5 at 1905)	21 Es	0000 KTVQ 2 MT 1245		0100 f/out
	2000 WMT 2 IA 945		0020 f/out		0820-50 unids 2-6
	2005 KOTA 3 SD 1040		2320 unid 2 w/nw		0847 WCCOt 4 MN 1110
	2058 KDIX 2 ND 1225	25 Es	0940-1000 unids 2 ne		0859 KDLH 3 MN 1250
	KNOP 2 NE 815		1010 WGR 2 NY 1420		KTCA 2 MN 1110
	2210 f/out to n		1059 KGCY 2 ON 1405		0920 KFYRt 5 ND 1200
22 Es	0759 WPBT 2 FL 1150		1117 WMT 2 IA 945		0935 KDSJt 5 SD 1060
	WESH 2 FL 1055		1128 WBAY 2 WI 1190		(MUF 97.9 at 0945)
	0825 WTVJt 4 FL 1150		1259 KTWO 2 WY 1015		0959 KTWO 2 WY 1015
	0829 WEDU 3 FL 985		1330-1400+ unids 2		KOTA 3 SD 1040
	(MUF 98.7 at 1840)		1429 KTVQ 2 MT 1245		1115 KTVXt 4 UT 1080
	0845 WAGAt 5 GA 880		1540 f/out		KSLt 5 UT 1080
	0959 WNGE 2 TN 820	26 Es	1010-1035 unid 2 sw		(MUF 98.7 at 1140)
	WSAZ 3 WV 1100		1455-KWGN 2 CO 810		1158 KTVQ 2 MT 1245
	1055 KNBCT 4 CA 1190		1830-1850 unids 2		1159 KYUS 3 MT 1230
	1059 KNXT 2 CA 1190		1857 WBAY 2 WI 1190		1230 apx f/out
	KEYTt 3 CA 1270		1859 WJMN 3 MI 1280		1315-20 unid 2 n/ne
	1115 f/out		1959 KGFE 2 ND 1240		1925-2250 unids 2,3
	1145-1155 unids 2 n		KINT 3 IA 985		2136 KUTV 2 UT 1080
	1300-1330 unids 2 ne		2012 KDIX 2 ND 1225		2213 KID t 3 ID 1215
	1328 WUND 2 NC 1360		2028 KUSD 2 SD 920	30 Es	1110-1330 unids 2,3,5
	1359 WCBd 2 SC 1120		2055 KFYRt 5 ND 1200		1110 KNXTt 2 CA 1190
	1408 WCIVt 4 SC 1120		2101 KDLO 3 SD 1070		1129 KOAI 2 AZ 855
	1429 WWAY 3 NC 1250		2105 KOTAt 3 SD 1040		KORK 3 NV 1050
	1559 WPBT 2 FL 1150		2200 KTVQ 2 MT 1245		1210 KVVUt 5 NV 1040
	1710 f/out		2210 f/out		1450-1500 unid 2 QRN
	1805 unids 2 ne	27 Es	0340-45 unid 3		1528 WESH 2 FL 1055
	1319 WPMY 2 NC 1175		1200-05 unid 2 s/se		1750 apx f/out QRN
	1925 unids 2-6		2045 XHBCT 3 BCN1010		1950-2250? unids 2-4
	(MUF 97.9 at 1947)		XHAQt 5 BCN1010		2035 KTVXt 4 UT 1080
	2120 WDMN 2 OH 1075		(MUF 98.1 at 2050)		2100 WBBM 2 IL 1045
	2205 f/out		2050 KETV 6 BCN1100		2216 KUTV 2 UT 1080
ms	2221 WBRZ 2 LA 450		2115 KTVKt 3 AZ 835		2235 KORKt 3 NV 1050
23 Es	0830 KNXTt 2 CA 1190		2129 KNXT 2 CA 1190	31 Es	0759 WJFK 2 MI 1225
			2225 KNBct 4 CA 1190		WWJ t 4 MI 1225
			2300 f/out		0959 KTCA 2 MN 1110





## Wisblood (continued)

May 1979		28 Es 1628 unid 5		June 1979	
19 Es	1247 KRTVt 3 MT		KCKT 2 KS	1 Es	2133 KTEW 2 OK
	1912 XHBS 4 Sinaloa	1729	KTVQ 2 MT		2200 KAMP 4 TX
20 Es	0700 KMID 2 TX		1758 KTWO 2 WY		(MUF 94.7 to Ok City)
	1026 KATU 2 OR	1800	KDFW 4 TX		2224 KWGN 2 CO
27 Es	1959 KMID 2 TX	29 Es	1645 KTWO 2 WY	2 Es	1705 KRMT 2 WA
	2009 KWAB 4 TX		1705 KDUHT 4 NE		KXLYt 4 WA
28 Es	1559 KMID 2 TX		1900 KUSdt 2 SD		1935 CHBct 2 BC
	1600 unid 2 Mexico		1909 KNOP 2 NE	3 Es	0853 KWGN 2 CO
	1624 KDBC 4 TX	30 Es	2120 unids 2-4 OR/WA (MUF 95.7)		0900 KDUH 4 NE

Fred McCormack, Fargo, ND

CDT

May 1979		23 Es (MUF 95.7 @ 2236)		2 Es 1315 KOAI 2 AZ 1240	
9 Es	1958 WMAB 2 MS 1015	25 Es	1220 WLBT 3 MS 1070		2159 KORK 3 NV 1195
	2037 WLBT 3 MS 1070		(MUF 105.3 @ 1247)	3 Es	1900 WBRZ 2 LA 1185
10 Es	1930 WNGE 2 TN 905	29 Es	2215 KMID 2 TX 1060	5 Es	1900 KFDX 3 TX 900
	(MUF 92.3)	30 Es	2039 KTVK 3 AZ 1230		(MUF 107.9)
	2100 WMAB 2 MS 1015		2055 XEPM 2 CH 1130		2153 (MUF 106.9)
11 Es	1820 WBRZ 2 LA 1185		2100 KOAI 2 AZ 1240		2159 KVVU 5 NV 1200
	(MUF 107.1)	<u>June 1979</u>		7 Es	1932 unid 2
	1858 KATC 3 LA 1185	1 Es	0900 WLBT 3 MS 1070	8 Es	1759 KTVN 2 NV 1256
	2000 KOET 3 OK 810		(MUF 107.9)		2052 (MUF 102.7)
	2028 KFDX 3 TX 900		1000 KALB 5 LA 1115	9 Es	0001 WBRZ 2 LA 1185
	(MUF 107.9 @ 2050)		1100 WBRZ 2 LA 1185		0758 KETS 2 AR 890
	2100 KXAS 5 TX 985		1130 WKRG 5 AL 1215		0800 WBRZ 2 LA 1185
19 Es	1328 unid 2 s		(MUF 107.9 @ 1226)		0828 KATC 3 LA 1185
20 Es	2125 KOAI 2 AZ 1120		1405 f/out FM band		0859 KOET 3 OK 810
21 Es	0203 KATU 2 OR 1240		2058 KPRC 2 TX 1200		0900 KBTX 3 TX 1120
	0240+ f/out		(MUF 93.3 @ 2135)		0905 KPRC 2 TX 1200
23 Es	1915 WBRZ 2 LA 1185		2159 KMID 2 TX 1060		0930 KFDX 3 TX 900
	1925 KBTX 3 TX 1120	2 Es	0027 KMID 2 TX 1060		(MUF 99.5)
	(MUF 107.7 @ 1956)		1229 KMID 2 TX 1060		0959 KENW 3 NM 965
	2103 KMID 2 TX 1060		KENW 3 NM 965		1255 KOAI 2 AZ 1240
	2200 XEPM 2 CH 1180				


The morning of June 1 was the best so far with the MUF being through the FM band most of the morning. The television channels were a jumble of CCI.

EDUCATIONAL FM UPDATE, PART 2 (continued from page 5)

On the matter of time sharing, the commission felt that it offered some good solutions. For those licensees unable for one reason or another to offer fulltime service, it enabled them to stay on the air offering what service was possible. High school stations seldom operate in the hours when community stations want the audience, and vice versa. In cases where competing applicants want the same hours and are unable to reach some agreement (such as alternate days, or in the case of a New York City pair, alternate years for evening hours), the FCC would be willing to make the decision. It did so many times in the twenties with AM radio.

What the new proposals make possible is more fulltime noncommercial radio. It removes the imitation ten-watters from valuable frequencies and opens them for services geared to the whole city, not just the campus. This is not to say that there are no ten-watters serving the community. There have been and there are. In the past thirty years many have gone on to higher power. These will survive. The rickety-tick operations of kids playing radio will gradually disappear, as they did with AM radio by the depression. Non-commercial radio will become more responsive and responsible. The listener will be able to turn on his radio and know that a station will be there, a station that, in all probability, will not sound like the neighbor's kid aping the local rockers. Some cities, like Dayton, will get their first public radio stations.

# IN SEARCH OF



Donald L. Blevins  
1715 Earhart Road  
Baltimore, MD 21221  
301-574-2714

IN SEARCH OF Low Band Government... This month will be a continuation of May 1979's feature about the use of low band by the military. A quick reference to this feature will explain this month's issue.

FREQ	NAME	LOCATION	ACTIVITY
37.60	Aschaffenburg AAF	West Germany	*Army A/G
37.60	Ulm AAF	West Germany	Army A/G
37.80	Goppingen AAF	West Germany	Tower
37.80	Hanau	West Germany	Tower
37.80	Hohenfels AAF	West Germany	Tower
37.80	Illesheim	West Germany	Tower
37.80	Schwabisch AAF	West Germany	A/G
38.10	Port Columbus Intl.,	OH	Ak operations
38.10	Wheeler-Sack(Ft. Drum)	NY	Army maintenance
38.20	Columbia Metro,	SC	Army operations
38.20	Stewart,	NY	Ak operations
38.30	Hood AAF(Ft. Hood)	TX	Army Range
38.45	Springfield Municipal,	MO	NG operations
38.50	Akron-Canton Regional,	OH	NG operations
38.50	McCoy AAF,	WI	Army Tower
38.60	Butzweilerhof,	West Germany	Belgium Army Tower
38.60	Lincoln,	NE	NG operations
38.60	Ohio State,	OH	ANG operations
38.60	Wilmington,	DE	NG operations
38.70	Davenport,	OH	NG operations
38.70	Godman AAF(Ft. Knox)	KY	Army operations
38.70	Otis AFB,	MA	NG operations
38.70	Westover AFB,	MA	NG operations
38.70	Wright AAF(Ft. Stewart)	GA	Army operations
38.90	Brass Chaat,	Belgium	Belgium Army Tower
38.90	Mackall AAF,	NC	Army Range
38.90	Wright AAF(Ft. Stewart)	GA	Army Tower
39.95	Simmons AAF(Ft. Bragg)	NC	Army Tower
40.00	Hildesheim,	West Germany	German Army Tower
40.00	Laupheim,	West Germany	German Army Tower
40.00	Neuhausen Ob Eck,	West Germany	German Army Tower
40.00	Rheine Bentlage,	West Germany	German Army Tower
40.00	Rotenburg,	West Germany	German Army Tower
40.00	Stewart,	NY	Army operations
40.10	Bayreuth AAF	West Germany	Army A/G
40.10	Heidelberg AAF,	West Germany	Army operations
40.10	Simmons AAF(Ft. Bragg)	NC	Army weather "Carolina Center"
40.20	Bauholder AAF,	West Germany	Army A/G
40.20	Richard Byrd International,	VA	NG operations
40.20	Bonames AAF,	West Germany	Army Tower
40.20	Cleveland-Hopkins International,	OH	Ak operations
40.20	Hersfeld AAF,	West Germany	Army A/G
40.30	Dannelly Field(Montgomery)	AL	NG operations
40.50	Ansbach AAF,	West Germany	Army Tower
40.50	Dallas NAS(Hensley Field)	TX	Army operations
40.60	Kitzinger AAF,	West Germany	Army Radar
40.80	West Bend Municipal,	WI	Army Operations
40.90	Craig Municipal(Jacksonville)	FL	NG operations
40.90	Lakefront,	LA	NG operations

NG-National Guard ANG-Air National Guard AR-Army Reserve A/G Air to Ground AAF- Army Air Field NAS-Naval Air Station MCAS Marine Corps Air Station

FREQ	NAME	LOCATION	ACTIVITY
40.90	Muir AAF,	PA	Army Ground Control
40.90	Trubull,	CT	NG operations
41.00	Akron-Canton,	OH	NG operations
41.00	Burlington International,	VT	NG operations
41.00	Linden,	NJ	NG operations
41.00	Mather AFB,	CA	NG operations
41.00	Niagra Falls,	NY	NG operations
41.00	Whiteman AFB,	MO	NG operations
41.10	Quonset State,	RI	NG operations
41.20	Bangor International,	ME	NG operations
41.20	Hood AAF(Fort Hood)	TX	Army Weather
41.30	Orlando,	FL	Army operations
41.30	Wright AAF(Ft. Stewart)	GA	Army advisory "victory"
41.50	Acadiana Regional,	LA	Army operations "cajon ops"
41.50	Boise Air Terminal,	ID	NG operations
41.50	Ft. Polk AAF,	LA	Army Tower
41.50	Fritzsche AAF(Fort Ord)	CA	Army Tower
41.50	Grey AAF(Ft. Lewis)	WA	Army Tower
41.50	Holman Field(St. Paul)	MN	AR operations
41.50	Homestead AFB,	FL	Army operations "outcast "
41.50	Laguna AAF(Yuma Proving Grounds)	AZ	Army Tower
41.50	Lawson AAF(Ft. Benning)	GA	Army Tower
41.50	Libby AAF(Ft. Huachuca)	AZ	Army Tower
41.50	Marshall AAF(Ft.		Army Tower
41.50	Michael AAF,	UT	Army Tower
41.50	Rapid City Regional,	SD	NG operations
41.50	Shelbysville Municipal,	IN	NG operations
41.50	Sherman AAF(Ft. Leavenworth)	KS	Army operations
41.60	Hunter AAF,	GA	Army weather
41.60	Truax Field,	WI	NG operations
41.65	Felker AAF(Ft. Eustis)	VA	Army Tower
41.70	Forbes Field,	KS	NG operations
41.70	McCoy AAF,	NC	Army Tower
41.70	Laupheim,	West Germany	German Army Radar
41.75	Mackall AAF,	NC	Army Tower
41.85	Abrams Municipal,	MI	NG operations
41.80	Stockton Metropolitan,	CA	NG operations
41.90	Bradley International,	CT	NG operations "fury ops"
41.95	New River MCAS,	NC	MC Tower
41.95	Quantico MCAS,	VA	MC Tower
42.00	Buckeburg,	West Germany	German Army Tower
42.40	Niederstetten,	West Germany	German Army Tower
43.70	Lowe Army Heliport(Ft. Rucker)	AL	Army Tower
44.70	Blackstone AAF(Ft. Picket)	VA	Army Tower
46.30	Fritzlar,	West Germany	German Army Tower
46.30	Mendig,	West Germany	German Army Tower
46.30	Niederstetten,	West Germany	German Army Tower
46.60	Scott AFB,	IL	NG operations
46.65	Concord Municipal,	NH	NG operations
46.70	Jefferson City Memorial,	MO	NG operations
46.70	Paine Field(Everett)	WA	AR operations
46.80	Dallas NAS(Hensley Field)	TX	NG operations
46.90	Johnson County Industrial,	KS	Army operations
48.60	Grayling AAF,	MI	Army Radar
49.65	Holman Field(St Paul)	MN	NG operations
49.70	Bush Field(Augusta)	GA	Army operations
49.80	Bismark Municipal,	SD	NG operations
49.80	Jefferson City,	MO	NG Tower
49.80	Smyrna,	TN	NG operations
49.80	Wheeler-Sack AAF( Ft. Drum)	NY	Army Tower
49.90	Heno/Stead,	NV	NG operations "blackjack"

FREQ	NAME	LOCATION	ACTIVITY
49.95	Raleigh-Durham,	NC	NG operations
49.95	Rowan County,	NC	NG operations
51.30	Wildflecken	AAF, West Germany	Army range

Many communities rely on the use of local government frequencies for police and fire communications in order to avoid congestion and to coordinate other local government functions. One good example of this can be found in this Bergen County Municipal list. Bergen County is the county located just west of New York City. This list is however, about five years old, so there may have been some changes.

Police	Town	Fire	Police	Town	Fire
37.08	Allendale	33.86	155.37	Park Ridge	155.82
155.13	Alpine	154.16	37.08	Ramsey	33.86
45.58	Bergenfield	45.08	155.61	Ridgefield	33.86
45.90	Bogota	46.54			33.88
155.73	Carlstadt	154.16	45.90	Ridgefield Park	46.54
155.61	Cliffside Park	33.86	158.73	Ridgewood	158.94
155.13	Closter	154.16	154.04	River Edge	154.16
45.58	Cresskill	45.08	155.13	River Vale	158.76
155.13	Demarest	154.16	37.10	Rochelle Park	37.10
45.58	Dumont	45.08	-----	Rockleigh	154.16
158.73	East Paterson	33.86	155.73	Rutherford	154.16
155.73	East Rutherford	154.16	37.10	Saddle Brook	37.10
155.415	Englewood	154.16	37.08	Saddle River	33.86
155.61	Edgewater	33.86	37.38	South Hackensack	154.16
155.13	Emerson	158.76	159.21	Teaneck	158.82
37.38	Englewood Cliffs	33.86	45.58	Tenafly	45.12
158.73	Fairlawn	33.86	37.38	Teterboro	-----
155.61	Fairview	33.86	37.08	Upper Saddle River	33.86
155.61	Fort Lee	154.445	37.08	Waldwick	158.94
	" " "	33.86	155.73	Wallington	154.16
158.73	Franklin Lakes	158.94	155.13	Washington Twp	158.76
45.98	Garfield	33.86	155.13	Westwood	158.76
158.73	Glen Rock	158.94	155.37	Woodcliff Lake	155.82
154.04	Hackensack	154.10	155.73	Wood-Ridge	154.16
155.13	Harrington Park	154.16	158.73	Wyckoff	158.94
155.73	Hasbrouck Heights	154.16	*****		
45.58	Haworth	45.08			
155.13	Hillsdale	158.76			
158.73	Ho-ho-kus	158.94			
37.26	Leona	33.86			
155.73	Little Ferry	155.94			
37.10	Lodi	33.86			
155.73	Lyndhurst	154.16			
37.08	Mahwah	33.86			
158.73	Midland Park	158.94			
155.37	Montvale	155.82			
37.38	Moonachie	154.16			
45.58	New Milford	154.16			
155.25	North Arlington	154.085			
155.13	Northvale	154.16			
155.13	Norwood	154.16			
46.56	Oakland	46.56			
155.13	Old Tappan	158.76			
155.13	Gradell	154.16			
45.90	Palisades Park	33.86			
39.60	Paramus	45.44			

- Many thanks to George Du Bois for  
 - his military low band information.  
 - This has got to be the most infor-  
 - mative list generally not readily  
 - available.  
 -  
 - Hope to see you in Baltimore at the  
 - 1979 WFDCA convention at Mueshaw's  
 - Hilltop Inn Security Blvd and I-695.  
 - See this month's feature about the  
 - convention and make tracks to Balt-  
 - imore!!!

**MORE  
DETAILS  
ON  
PAGE  
SIX!**



# QSL CORNER

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

## TV-OSL

- ON CICA 19 Toronto, P. O. Box 200, M4T 2T1. Letter, & maps from Cindy Gelbrith, Audience Relations Officer. Reply in 10 months! Yingling
- CBLFT 25 Toronto, Box 500, Terminal A, 354 Jarvis St MSW 1E6. QSL card back in one week, with no signer. Yingling
- CT WVIT 30 New Britain, 1422 New Britain Ave, West Hartford, CT 06110. Letter back from William A. Canora, CE in 1 week. Yingling
- IN WSJV 28 Elkhart, Box 700, 3600 Oakland Ave, 46514. Letter from Wayne Lovely, CE in 7 days. Used SASE. Langridge
- WHME 46 South Bend, 71300 Ironwood Rd, 46614. Letter, coverage map & card from Dar Monesmith, CE in 39 days. Used Sase. Langridge
- KS KTSB 27 Topeka, Box 2700, 66601. Letter from Bill Keegan, CE. Eddie
- KY WLKY 32 Louisville, 1918 Mellwood Ave, 40206. Letter from Paul Kelley, CE Eddie
- WTVQ 62 Lexington, Box 5590, 40505. Letter from William F. Bratton, Jr., CE Eddie
- WLEX 18 Lexington, Box 1457, 40501. Letter from Albert W. Scheer, CE Eddie
- MD WJZ 13 Baltimore, TV Hill, 21211. Letter from V. Yannuzzi Asst. CE Schutz
- MA WWLP 22 Springfield, P. O. Box 2210, 01101. Letter from Lucy Deliso; Promotion Dept Schutz
- WXNE 25 Boston, 100 2nd Ave, Needham Heights, 02194. Letter & inter dept programming fliers from William Gregory, CE. Schutz
- MI WKBD 50 Detroit, 26955 West 11 Mile Rd, Southfield, 48034. Letter signed by David L. Simon, Program Manager. It came in station's own envelope, even though I send a SASE. Reply was in 10 days. Wolf
- WUHQ 41 Battle Creek, 5200 Dickman Rd, 49016. Letter from Steve E. Nelson, Eng. Eddie
- MO KMTC 27 Springfield, 3000 Cherry St., 65804. Letter from Dale Blarkenship, CE Eddie
- KOZK 21 Springfield, M. P. O. Box 21, 65801. Letter from William F. Curry, CE Eddie
- KRMA 41 Kansas City, BMA Tower, 1 Penn Valley Park, 64108. Letter & map from Harold De Good, CE. Eddie

## FM-OSL

- ON CFMU 93.3 Hamilton, Room 301, Hamilton Hall, McMaster University, L8S 4K1. Letter from Carey Gibson, CE. "...as our ERP is 50 watts, & our antenna is below the level of the Niagara escarpment, your reception of our signal is quite a feat." Sawatzky
- CJOM 88.7 Windsor, 1120 Ouellette Ave., N9A 1C9. Letter from Wally Dawhan, CE Eddie
- CKFM 99.9 Toronto, 2 St. Clair Ave, West, M4V 1L6. QSL card for all 3 stations, CFRB-AM, CKFM & CFRX shortwave with CKFM x'ed. Signed by Clive Eastwood & D. Lumley, no title, reply in 2 weeks. Yingling
- CFLY 98.3 Kingston. Letter, dial card & coverage-map in 1 week from C. J. Bermingham, VP. Says this is most distant fm report (for CFLY or the former CKLC-FM), previous best being Indiana. Wood
- CHEZ 106.1 Ottawa. (tx: Camp Fortune, PQ) letter, folder, rate card, coverage maps, etc, from Chuck Azzarello, Station Manager. Says he often listen to fm station on the CN Tower at night & suggests I look for them (thus misunderstanding the difference between my Es reception & his tropo. Reply in one week. Wood

Reporters this are Bob Langridge, Richard Eddie, Eric Schutz, Wolf, Sawatzky, Yingling - ed, and a new reporter Richard E. Wood, Ph.D., thanks for the report, I need it. In fact I need all the new reporters as possible. I'm almost out of tv qsl's and just a good handful of fm reports waiting to get typed. I hope the dx season isn't that bad that no new qsls. I hope to see as many of my reporters at the 79' convention in Baltimore in August as possible.

## SEE YOU IN BALTIMORE!





**TOUGH  
TO BEAT!**

# WORLDWIDE TV-FM DX ASSOCIATION

Post Office Box 202 Whiting, Indiana 46394 U.S.A.

Established 1967

SERVING THE VHF-UHF DX ENTHUSIAST



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