

From The STAFF

W.T.F.D.A. Headquarters, P.O. Box 514, Buffalo, NY 14205

LET'S HEAR FROM YOU...Should club policy be set at the annual WTFDA convention? Or should it be voted on by the total membership? If there are to be changes in club policy should the proposed changes be first put to the members for a vote? If so, would everyone agree on majority (51%) rule? Changes in club policy would be first printed in the VUD. Everyone will be given till the following month to reply. Rejection or acceptance of said change will be in that months VUD.

THE REASON WE ASK?...The new VUD editorial policy excluding log totals from DX report columns has proved to be very controversial. We would like to hear from as many of you as possible on this matter. Several longtime WTFDAers, many of them very prominent FM and TV DX enthusiasts, have sent comments to club HQ already. Those who have expressed opposition to the policy have made some very interesting points, and a FEEDBACK section will detail the arguments next month. Those who proposed the new policy thought it would increase support of the STATISTICS columns, and felt that log total claims should come under close scrutiny of the STATISTICS editors.

SPECIAL PROJECT PROPOSED...Jeff Kadet is working on a listing of all-nighters on the Educational band and the class A frequencies. This greatly-needed list would be invaluable to avid FM DXers. If you can help provide Jeff with this info, contact him at Box 20, Macomb, IL 61455. The 88 to 92 MHz portion of the FM band presents us with some of the most interesting DX channels--and some big challenges.

WTFDA MEMBERSHIP LIST...We hope to have a current list of WTFDAers in the January 1984 issue. Anyone wishing to not have a full address listed should contact HQ by December 15. Unlike the telephone company, we do not charge extra for "unlistings."

BITS...The auroral DX opening in the early hours of October 22 was really something! Your Editor-in-Chief saw signs of auroral "hash" way up on channel 57 from his Akron, NY location. And the opening was going on during a meteor shower peak!...If you picked up a Blonder-Tongue products binder at this year's WTFDA convention, please get in touch with ANTENNA NEWS editor Doug Dornbos. It was not part of the free literature handouts, and Doug needs it back!

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This month's cover by Dave Nieman.

YOU ASKED FOR IT...

SUPPORT IT...



MAILBOX

November 1983

Alan Hyams
P.O. Box 130
City Island Station
Bronx, NY 10464

Greetings, Fellow Members,

This is to let you know that the Mailbox column is returning to the pages of the VUD.

This column, which has been absent for over a year, will serve as a forum for everyone to write in on aspects of the DX world that do not quite fit in with the formats of the TV and FM logs. In other words, miscellaneous comments, observations, anecdotes and other items are welcome. For example, DX get-togethers, experiences with new equipment, amusing stories, news items, etc.

Send all material to the above address.

'73s, Al

TELEVISION NEWS

Bill Fabber, editor
336 Atlantic Street
Bridgeton, N.J. 08302

RETROSPECT: BROADCAST REPEATER STATIONS PART TWO

The latter half of the fifties saw a great deal of growth in the number of television broadcast stations. It also saw the development and growth of several new auxiliary services, such as community antenna television (CATV), satellite stations, and translators.

But with this growth came competition, and complaints of adverse economic impact. When the FCC authorized two translators in Lewiston, Idaho, a broadcast stations acting as a semisatellite in that area raised complaints. Around the United States, particularly in the western states, applicants for new broadcast stations were upset when the FCC also received applications for translators in the same town. There were also complaints about CATV operators who applied for microwave links to distant television stations. A group of thirteen broadcasters raised complaints against 288 CATV operators, asking the FCC to regulate them as common carriers under Title II of the Communications Act. There were also objections by CATV operators against translators as well as objections by translator operators against the authorization of microwave facilities for CATV.

Rather than become bogged down with numerous hearings on each complaint, the FCC decided to handle the problems on an overall basis, and in May, 1958, instituted an inquiry into the matter of the economic impact of CATV, translators, satellites, and repeaters on the normal development of television broadcasting. The FCC raised several questions on the matter. To what extent are these auxiliary services operating in areas where there is an existing or potential television station? What is the extent of their economic impact on television? Can the FCC deny microwave facilities to CATV systems because of their impact on local stations? Would a single local service be more in the public interest than several auxiliary services? What restrictions on auxiliary services would be in the public interest?

Not content with going to the FCC, the broadcasters also went to the Senate Interstate and Foreign Commerce Committee, which opened hearings on the matter. Testimony before the committee revealed that the problem was limited to about twenty cities, all located in small market areas, and not all of those cities presented serious "impact" situations.

The FCC likewist noticed that the issue involved a small viewing audience in a few scattered communities, mostly in the western states. But since the number of potential impact situations was increasing and there were increasing numbers of applications for microwave facilities by CATV operators, the FCC decided to study the issue in detail and

decide what action to take.

The demand for television service in areas too small to support a local television service and unable to receive other more distant stations had led to the development of four types of auxiliary services. Satellite stations and translators in the upper 14 UHF channels have been authorized by the FCC. VHF boosters, estimated to number more than a thousand at this time, were not authorized by the FCC and are operating illegally. CATV's are outside of the FCC's jurisdiction. It was estimated that 75% of all auxiliary television services were provided by CATV's.

Broadcasters warned the FCC that, unless action were taken to restrict these auxiliary services, small market stations will be forced off the air or will have to curtail some services. The FCC was urged to seek legislation from Congress that would give it jurisdiction over CATV systems.

CATV interests charged that there was no real impact problem. The broadcasters were raising the issue to maintain their position of monopoly. Economic injury should not be a basis for restricting auxiliary systems.

After studying numerous cases the FCC concluded that the impact is not nearly as widespread as the broadcasters claimed. There is a possibility that an auxiliary service, particularly a CATV, would have an adverse economic impact on a broadcast station, but it is hard to predict how serious that impact would be. Thus the FCC would not be able to justify restricting CATV from certain areas.

The FCC did agree on two of the suggestions raised by the broadcasters. CATV systems should be required to carry local stations, upon that stations request, without degrading the signal, and that CATV systems obtain the consent of distant stations whose signals they transmit. Since these actions were outside the FCC's jurisdiction, Congress had to be asked to amend the Communications Act to give the FCC this authorization.

It was on December 30, 1958, that the FCC decided not to authorize VHF boosters. But several petitions filed over the next two months persuaded the FCC to reconsider, and proposed ruled for VHF translators were adopted on December 2, 1959. According to the proposed rules VHF translators would be limited to one watt peak visual power. The FCC also proposed that the existing several hundred, perhaps thousand, of unauthorized VHF repeaters either cease operation or convert to licensed operation under the guidelines set by UHF translator rules.

Section 319 of the Communications Act forbids the licensing of transmitting facilities which were constructed prior to the issuance of a construction permit. But the FCC already had, in June, 1959, proposed that Congress amend Section 319 in order to convert unquorized boosters into VHF translators.

On July 7, 1960, Congress passed that amendment, allowing for the conversion of unauthorized repeaters built before that date.

When the FCC proposed the establishment of VHF translators several broadcasters again complained about adverse economic impact. The FCC again reasserted its position: that there are two areas of public interest: The availability of more than one television service and the economic welfare of television broadcast stations. In some areas with small population these two factors may not be compatible. But the FCC will leave it up to the affected broadcast station to raise objections to a translator application. With the adoption of this ruling, it wouldn't be necessary for the FCC to make a ruling which would automatically restrict translators because of the presence of a local television station.

Owners of several UHF translators also complained of adverse economic impact. The presence of VHF translators would reduce the incentive for the public to purchase the more expensive all-channel receivers, thus reducing the potential audience for UHF translators. But the FCC replied that UHF translator equipment has superior performance and other advantages that would give it greater acceptance over VHF translators. UHF is less susceptible to static and "ghosting," and has less potential for interference to other broadcast services. Another possible factor promoting expansion of UHF translators- and this was under consideration as far back as 1960- was that, "UHF translators may eventually develop into a regular low power local broadcast service." (Federal Register, 8/4/60, p. 7320)

A few manufacturers of radio equipment suggested that UHF translators, then restricted to channels 70-83, be allowed to use any UHF television channel. The FCC saw that as a possibility in the distant future, but held to the channel 70-83 rule to keep translators and broadcast stations separated by frequency, and to allow for the mass production of translator equipment by limiting them to a narrow frequency range.

On July 27, 1960, the FCC adopted rules establishing VHF translators. They could function on a secondary basis to broadcast stations. They could not operate in areas receiving coverage by a UHF television station. They would be limited to a maximum of one watt peak visual power. Operators of VHF repeaters had until October 31, 1961, to modify their facilities and become authorized translators. This date was later changed to July 31, 1962.

The UHF co-channel booster proceeding had been dragging for some time now. It was originally instituted back on March 31, 1955, with a Notice of Proposed Rule Making, eliciting information on the feasibility of UHF boosters. Specific rules for UHF boosters were proposed on June 27, 1957, a month before the FCC proposed the establishment of Low Power Television Repeater Stations. These rules for UHF boosters, technically called UHF television co-channel amplifying trans-

mitters, took effect on July 5, 1960. Boosters would not be permitted to operate with more than 5 kilowatts ERP visual. No call letters would be assigned to boosters. The FCC would tolerate the rebroadcast of other co-channel stations that would result from abnormal propagation conditions.

Things became a bit more complicated in the auxiliary television structure when the Blue Mountain Television Association wanted to construct UHF translators to serve portions of Union and Baker Counties in Oregon. Engineering calculations predicted a shadow area within the coverage area of these translators. Blue Mountain TV proposed a UHF signal booster to retransmit the signals of a translator instead of a broadcast station. On January 18, 1961, the FCC began to look into the feasibility of UHF translator signal boosters. Some of the comments received by the FCC advocated VHF translator signal boosters also, an idea which the FCC hastily dismissed because of the potential for interference. But the FCC did establish the UHF translator signal booster as an auxiliary television service on May 17, 1961, with the adoption of rules and technical standards to govern them.

APPLICATIONS FOR NEW TELEVISION STATIONS				
CH	ERP	HAAT	STATE/CITY/APPLICANT	
20	2500	572	MT Billings; Dei Gratia Communic.	
9	100	-26	MT Havre; Apocalypse Television	
36	1000	2013	SD Sioux Falls; Force Majeur Bc'g	
4	100	-35	UT Cedar City; CMM, Inc.	
22	4000	301	WI Oshkosh; Eternal World Telec.	
27	750	543	MN Duluth; Haynes Communications	
58	5000	1647	TX Dallas; Ideal Licensee, Ltd.	
33	4000	155	WY Cheyenne; Retherford Public'n's	
28	1000	254	WI Sheboygan; " "	
26	1000	640	NY Jamestown; " "	
5	100	600	MI Calumet; " "	
68	4000	166	MD Hagerstown; " "	
53	4500	312	IL Pontiac; " "	

APPLICATION AMENDED			
16	n.c.	235	IA Dubuque; Powell Broadcasting

CONSTRUCTION PERMITS GRANTED				
61	5000	638	CT Hartford; Arch Communications	
48	5000	1298	TX McAllen; Hispanic Tele-Media	
27	1000	1313	WI Wenatchee; Fred Alan Ross	
14	4500	1448	TX Houston; Educational Television of Houston, Inc.	
15	?	?	NE Omaha; Mid-America Broadcasting of America (initial decision of consolidated hearing. This hearing has been going on for 4½ years. Data will appear next month.)	
17	1000	2615	MT Missoula; James A. Bender	
15	8.13	1037	VI Christlansted; W. C. White	
51	621	729	MA Pittsfield; Housatonic Broadcasting Co. (FCC Review Board confirming earlier decision by ALJ)	
52	14.1	-279	NY Ithaca; Oswego Broadcasting & Communications (Xmtr must be in a gravel pit or something.)	
63	1542	1619	NY Kingston; Ulster County Communications Corporation	

APPLICATIONS DISMISSED BY THE FCC
 • Omaha, Nebraska; channel 15; Channel 15/Omaha; Family Television, Inc.; Koplak Communications, Inc.; Omaha TV 15, Inc.
 • Middletown, CT; channel 61; Community Television of Connecticut, Inc.
 • Shreveport, LA; channel 33; Great Central Communications Company.
 • Houston, Texas; channel 14; Amerivision Corporation; Texas Educational Network, Inc.
 • McAllen, Texas; channel 48; Hidalgo Communications Corporation; Rio Grande Family Television, Ltd.
 • Pittsfield, MA; channel 51; Pittsfield Community Television Association
 • Kingston, New York; channel 63; Woodstock Broadcasting Group, Inc.
 • Ithaca, New York; channel 52; Ithaca TV Association.

APPLICATIONS TO MODIFY CONSTRUCTION PERMITS
 45 3925 n.c. MD Baltimore; WBFF (see below; already on the air)
 66 2950 1463 MA Marlborough; WGTR-TV

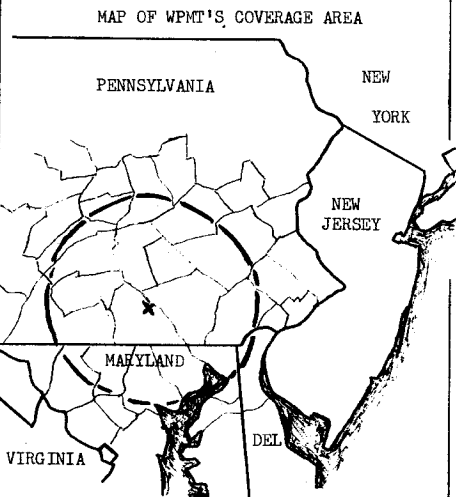
CONSTRUCTION PERMITS MODIFIED
 45 3925 n.c. MD Baltimore; WBFF (reduce from 5000 kw. Probably already reduced, as I noticed that its signal is weaker lately.)
 2 n.c. 1970 NM Santa Fe; KSAF-TV
 49 270 n.c. TX Irving; KLTJ
 51 5000 1283 TX Longview; KLMG-TV
 19 2685 1288 TX Nacogdoches; KDOG
 6 n.c. 907 TX San Angelo; KIDY
 67 - n.c. NY Smithtown; WSNL-TV (on the air; licensed for 5000 kw max/1820 kw hor. CP was for 2483 kw max, which indicates a directional antenna, with the transmitter in New York City. CP is modified to 2612 kw max, also directional with transmitter in New York City. I don't know if WSNL has been using this new TL yet or not.)

CHANGES IN EXISTING FACILITIES APPLIED FOR
 7 141 3213 CA Los Angeles; KABC-TV

CHANGES IN EXISTING FACILITIES GRANTED
 6 n.c. 1802 FL Miami; WCIX-TV (increase height by 400 feet; this should make some improvement in signal strength.)
 22 1550 n.c. NM Las Cruces; KRWG-TV (from 1620 kw)

Additional note: WSBA, channel 43 in York, Pennsylvania, has completely changed this past summer, and is virtually a new station. For years it had been running 1860 kw max/724 kw hor, 530' AAT/400' AG/1110' ASL. Even during optimum DX conditions, I could never get a decent picture from Bridgeton. The FCC granted a construction permit to WSBA-TV last October to increase ERP to 2698 kw max/2244 kw hor, and to increase antenna height to 1360' AAT/947' AG/1847' ASL (737' higher). TL was also changed to 40°01'38"/76°36'00", about 1/2 mile northeast of Chimney Rock, near Hellam. This is 8.15 miles northeast of its previous location. WSBA-TV began using the

new transmitter, but with reduced power, on August 29. Signals here are almost snow-free most of the time. For the first two weeks in September, with their CBS affiliation ended, WSBA-TV announced that as of September 15, their call letters would be WPMT, and that they would be an independent station. WSBA-FM was played on the audio, and a 3/4 CBTP was shown, with captioned announcements. When WSBA-TV went on the air back in 1952, it was the first UHF station to become a network affiliate. As an independent station, WPMT's strategy is "counter-programming." That is, movies during prime time, public affairs programs and syndicated programs on Saturday morning when the networks are showing cartoons, and cartoons on Sunday morning when the other stations show religious programs. The other network stations in the area are not looked on as competition. Rather, the Philadelphia independents are considered the real competition at WPMT. Since CBS still has affiliates in Harrisburg and Lebanon, there was a CBS glut, and nobody is losing access to CBS programs. Also, since there is enough local news coverage from the other stations, WPMT decided to drop its entire news team. WPMT now puts a Grade A signal into Harrisburg, Lancaster, Lebanon, and York, and a Grade B signal into Baltimore. Oh, yes! WPMT also offers a full hour of Twilight Zone every weeknight!



CALL LETTERS APPLIED FOR: NEW STATIONS
 CH C.L. STATE/CITY/APPLICANT
 15 KPTW KS Wichita; Kansas Public Telecommunications Service, Inc.
 27 WCMV MI Cadillac; Central Michigan U.
 21 WCMW MI Manistee; Central Michigan U.

CALL LETTERS APPLIED FOR: CHANGE EXISTING
 41 WMTG GA Macon; WCWB-TV
 12 KOBF NM Farmington; KIVA-TV

CALL LETTERS ASSIGNED: NEW STATIONS
 30 KDAV IA Davenport; Multi-Metro Communications, Ltd.
 48 WPMJ KY Owensboro; Volunteer Communications Society
 30 KOOG-TV UT Ogden; Ogden Television, Inc.
 51 WHSI ME Portland; Comark Television

CALL LETTERS ASSIGNED: CHANGE EXISTING
 7 KWNL IA Waterloo-Cedar Rapids; KWNL-TV

CHANGES IN STATION IDENTIFICATION APPLIED FOR
 • WFTV, channel 9, Orlando, FL, to identify as Orlando-Daytona Beach-Melbourne.
 • WHIO-TV, channel 7, Dayton, Ohio, to identify as Dayton-Springfield.

CHANGES IN THE TABLE OF ASSIGNMENTS
 Milwaukee, WI: add 58z

STATIONS ON THE AIR
 • KOHA-TV, channel 2, Hilo, Hawaii, went on the air August 22, 1983. 2.31 kw max. ERP (directional antenna); -574' AAT/142' AG/148' ASL; TL 87 Banyon Court Drive, Hilo; coordinates 19°43'51"/155°04'11"; address: Oceanic Broadcasting Company, 87 Banyon Court Drive, Hilo, HI, 96720. Rod O'Connor reports from Hawaii that KOHA-TV is on in the evenings 4 p.m. to 10 p.m. weeknights, to 11 p.m. on Saturday, and off the air on Sunday. Lots of movies, and some delayed broadcasts from ABC.

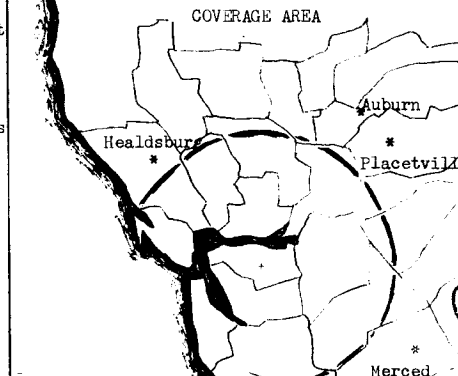
CONSOLIDATED HEARINGS
 • Bellingham, Washington; channel 64; Bellingham Television Associates, Ltd.; Prism Broadcasting Corporation.
 • Rancho Palos Verdes, California; channel 44; South Bay Broadcasting Company, Inc.; Sam Sangyun Choi; Channel 44 Associates; Springfield Television Corporation of California, Inc.; Rancho Palos Verdes Broadcasters, Inc.; Palos Verdes Broadcasting Company; California Telecasters; Channel 44, Inc. (In case you can't find this on a map, it's on Santa Catalina Island, off the California coast, south of Los Angeles, which will probably be within range of a television station from this island.)

* San Bernardino, California; channel 30 (formerly occupied by KHOF, which the FCC took off the air. Included are all of the applicants listed in the July, 1983 column, except for Black Media Coalition and Interstate Broadcasting Systems, Inc., which were dismissed by the FCC. Of particular interest is the list as arranged in the 7/83 VUD are the two groupings with identical data. The group specifying 269 kw and 2340' AAT are proposing to use the same transmitter as was used by KHOF before it went off the air, thus the same figures were used that KHOF used. The list of nineteen applicants calling for 2363' AAT are also proposing the same transmitter, but have different elevation data. They're all wrong, yet use the same figure. The FCC not only took note of this, but also noted that their contour calculations were also all the same, and all wrong. Using the data they give, the FCC calculated the City, A, and B contours as 36, 43, and 56 miles respectively, but the applicants are unanimous in calculating them, using the FCC's

charts, as 57, 75, and 84 miles. Television 30, Inc. and Golden Candlesticks Broadcast-noting that everything else in these applications was also identical except for the name and address, accused them of representing a coordinated effort to enable one party to have seventeen chances at receiving the construction permit. The FCC, however, dismissed a petition to reject those applications, saying that there is no evidence of a relationship between those applicants, and no indication of any improper purpose.

INSIGHTS ON NEW TELEVISION STATIONS
 • Paul Gaines sent some information from the Colorado TV Guide. They didn't waste much time including KDVR, channel 31, on their list. (And the Southeastern Pennsylvania edition has yet to include WGCB, channel 49 in Red Lion, PA, which went on the air three years ago!) KDVR, which went on the air in August, is an independent station. Religious programs in the early morning, talk shows, exercises and a soap opera in the morning, movies in the afternoon. Cartoons in late afternoon, recent syndicated programs in the evening, and an episode of Twilight Zone at night. This is Denver's second independent television station.

• KFCB-TV, channel 42, went on the air on June 19, 1983. At first, its schedule was limited to all day Sunday and 6 p.m. to 12:30 a.m. the rest of the week, until transmitter tests were completed around August 1, when it would go to 18 hours of broadcasting each day. The station plans to stay away from a lot of sex and violence. (I guess that leaves out the football games.) The station will be heavy on religious programming Saturday evenings and Sunday mornings. The station also plans a live talk show, "California Tonight," hosted by KFCB president Ron Haus. Syndicated programs are mostly from the early television years. Not at all heavy on cartoons like many independent stations. What few it has are also old. (Felix the Cat, Bozo, etc.) Nor is there much emphasis on its twice-daily movies. The station hopes to add game shows, country music, adventure programs, foreign language programs to its schedule.



First Century Broadcasting



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Concord, CA 94520 • (415) 676-8969

The signal of KFCB turned out to be much greater than they had expected at the station. The signal reaches as far as Chico, Yuba City, Auburn, Placerville, Stockton, Modesto, Merced, Fresno & Monterey. The 143 foot tall antenna is located atop Mount Diablo. The station had a hard time getting the permits to put it up there. First were the battles before Contra Costa County's Planning Commission and Board of Supervisors. Then a group of environmentalists objected to the grant of an antenna on the mountain without an environmental impact report, and appealed the tower issue to the FCC.

KFCB is not a Christian television station in the sense that others are: it is not owned by any religious organization, and its programming is not predominantly religious. KFCB is privately owned. But 30% of its programming will be religiously oriented, and that not of any particular faith. The other 70% is secular programming, but family-oriented in nature.

NO TRANSLATORS FOR WOR-TV

WOR-TV, channel 9, the New York station that has nearly everybody thinking its a New Jersey station, was in the news again. N.J. State Representative Matthew Rinaldo asked the FCC to require WOR-TV to install translators in South Jersey so that us South Jersey residents can have access to our very own commercial VHF television station. Pat Servodidio, president of RKO General Television, replied. "As a television station, we're not interested in a smaller audience, we're interested in a larger audience."

WRBV-TV IN VINELAND CAN KEEP ITS TRANSMITTER

A Superior Court Judge in Bridgeton, New Jersey (where that is) ruled that WRBV-TV, channel 65 in Vineland, is allowed to keep its transmitter in Wharton State Forest, despite the objections of local residents. The original owners of WRBV, Renaissance Broadcasting, constructed the tower on state property with state permission, under the mistaken belief that approval from the local planning board was not needed. But last year the state appeals court told the station otherwise. Present owner Richard Milstead filed the appropriate applications with the Waterford Township Zoning Board, and was then turned down.

Milstead objected to the rejection. For one thing, one of the Zoning Board members was permitted to testify as a witness before the township committee, which was unethical. Residents complained about the tower's safety,

but there aren't any buildings anywhere near the tower. Another objection raised by the residents was the station's programming content, which is basically smut-oriented. But this is a violation of the station's first amendment rights. When the station took the Zoning Board to the Superior Court, Judge Edward Miller reversed the township's actions, stating that the tower did not detract from the township's zoning scheme. Once the tower issue is settled, the station will be able to be sold.

ADVERTISING ON PBS STATIONS

The fifteen month experiment is over. Of the ten stations permitted to advertise under this experimental program, one dropped out, two experimented with alternate types of advertising, but seven educational television stations actually broadcast hard-sell commercial advertising. The results of the experiment have produced differences of opinion on the matter. The Corporation for Public Broadcasting, the government organization that puts our hard earned tax dollars into federal funds for public television, thinks the idea of commercial advertising on educational stations is terrible. The stations would be worse off, having to pay higher copyright fees and to renegotiate labor contracts if they allow commercials. The Temporary Commission on Alternative Financing for Public Telecommunications was surprised at the favorable results of the experiment, but advocated only the use of enhanced underwriting of programs, fearful of promoting the use of commercial advertising. Those television stations that favor advertising feel that all of the concerns of PBS and the CPB have no basis. Commercial stations, backed by the National Association of Broadcasters, are afraid of losing advertising revenue to educational stations.

FORUM

I wrote to the FCC Field Office in Boston, which is responsible for the Connecticut area and got this reply from Vincent F. Kajunski, Engineer in Charge: "We are quite concerned in your report of intermittent activity of a television station on Channel 59 in the Bridgeport, Connecticut area. WTVU is under construction and could begin programming any day now (letter written 9/30-wbf). We have no information on the activity you have reported. We would appreciate any information you can supply us concerning past and future activities of the Subject Station, such as dates, times and channels of operation, and

type of programming." So whatever you guys are receiving up there, it isn't legitimate. If it is a pirate, there's a good chance it may change to another channel after WTVU goes on the air.

While we're on the subject of illegitimate transmitters, Robert Goodman raised a few questions about the last RETROSPECT article in the 9/83 VUD, dealing with VHF boosters. He quotes the 1975 Broadcasting Yearbook, "The rules also provide that UHF stations may use 'boosters,' low-power stations rebroadcasting on the same frequency, to fill in 'shadow' areas within their normal service area. These have not proved satisfactory and none are now in operation." Robert mentioned a relative in Allison Park, north of Pittsburgh, who is receiving ghost images on his television on channel 4 (WTAE-TV), which he attributes to a VHF repeater atop a canyon. This repeater supposedly covers Pine Creek below, which is shielded from the station. The FCC never did authorize VHF repeaters, and if there are any, they are illegal. WTAE would not know about it if it was a VHF repeater, as they are almost always owned by the community, by a corporation, or by private individuals, and rarely owned by a station. The reflection is probably caused by something else, perhaps by the canyon itself. (Robert, get me more information about the transmitter location and maybe I can fine something definite on that transmitter.)

Here's a hint on how to determine a source of reflected signal. Light travels 186,282 miles per second in a vacuum, and nearly that in air. The television set has 15,734 scanning lines per second for color television. That makes each scanning line represent 11.8 miles of transmitted signal. Omitting the blanking interval, you have 9.71 miles of picture. Calibrate your television screen with that number, or to make things simpler, into tenths of the total width. Then by measuring the span between the original image and the reflection, you can determine how much longer the multipath (reflected) signal is than the direct signal. If you can determine the approximate direction of the reflected signal a little trigonometry will give you the rough distance. Those reflections you thought were from a neighbor's aluminum siding could be as far as a mile away.

Time lag can also be a help in determining unidentified stations when you get two stations of the same network on the same channel, or even adjacent channels if you can adjust the tuner to see sync pulses of one station over the picture of another. Before WMAR in Baltimore changed to NBC, I could get two CBS stations together on channel 2, the other being WCBS in New York. Since the CBS program originated in New York and traveled to Baltimore by cable, and since the WMAR signal then took time to reach me, WMAR was offset from WCBS vertically by about a dozen scan lines, or about half the thickness of the VBI. Washington DC channels 4 and 7 are of the same networks as New York 4 and 7 (NBC and ABC). The distance being greater, their pictures would be offset vertically by a lit-

tle more than the 21-line thickness of the VBI. When E-skip stations came in with the same-network-and-channel situation, the skip station would be offset by nearly the whole picture, its VBI being a little higher than the VBI of the next field of the closer network station. The more distant skip stations seem to consistently be offset vertically more than the closer skip stations. One exception, however, on a few occasions, I observed one station's horizontal blanking interval to slowly drift over the other's, even during network programming. I'm sure this must be a result of some other kind of relay, perhaps from satellite (those things do move quite a bit up there, you know.). Anyway, check your vertical offset when you receive two co-channel or adjacent channel stations of the same network, and look for any patterns. Perhaps the idea can be expanded farther by attaching two sets to the same antenna without a splitter and see if one set generates interference from one station's VBI onto another. Then you can compare same-network stations on any channel. (Might as well publish these ideas myself. I don't think "Hints from Heloise" would be interested in this stuff.)

Back to the mail. Fred McCormack says that along with the WDAY change from NBC to ABC were its satellites: WDAZ-TV, channel 8 in Devils Lake, ND, KPRY-TV, channel 4 in Pierre, SD, KADY-TV, channel 9 in Aberdeen, SD, and KSPY-TV, channel 13 in Sioux Falls, SD. KTHI-TV, channel 11 in Fargo and KDLT, channel 5 in Mitchell, SD, are NBC.

W. R. McIntosh sent an interesting article from the 9/13/83 Los Angeles Times about Metromedia, which owns seven stations, all among the top eleven television markets. With these stations Metromedia has access to 25% of the nation's people. Most of them are independent stations. Metromedia recently bought KTTV, channel 11 in Los Angeles, and is replacing old syndicated reruns with the new wave of satellite-relayed syndicates (Thicke of the Night, PM Magazine, Entertainment Tonight, Healthbeat, etc.). In addition to that Metromedia is still filming new episodes of "Fame" and "Too Close for Comfort," which were cancelled by the nets. These programs could also be syndicated to other stations. Metromedia is also planning to create a top-quality national news service (apparently similar to CNN or INN) which will also become syndicated. With the production of first-run programs for syndication, Metromedia will have to have enough stations broadcasting these programs to reach 70% of the nation. Their 25% owned-and-operated coverage gives them a head start toward that goal. Who knows, maybe Metromedia will someday become a fourth commercial television network.

Nathaniel Ely notes WCLQ-TV, channel 61 in Cleveland, gave up STV. He asks, "Did Cleveland get wired for cable or is there an MDS system that is successfully operating?" I wish I could find an MDS list; it would probably be worth publishing. As for STV, it's a lot like eggs: If you have too much poaching,

there won't be anything left worth scrambling. Ronald Purdue heard from the LaCrosse Tribune that "the WWQI-25 station is just in the talking stage as far as we know." What did they mean by that? Probably that they're dragging their feet and not getting the station built. They applied for the station in April, 1980, took more than two years to get it processed by the FCC. There were no other competitors for the channel, so it wasn't held up by consolidated hearing. I suspect that the applicant must have held it up with an incomplete application. The construction permit was granted in June, 1982 which is over a year ago. If they're still in the talking stages, that probably means trying to raise the money to build the station. Maybe the banks don't want to take a chance with them.

Rich Turcsany has been sending me some of his extensive lists of old television stations, and I have been sending him some of mine. The information he sent me will be quite useful for future RETROSPECT articles. I still have material for the current theme, "the early years of television DX," including material from John Ebeling, and more information on the 6/5/1938 DX openings. I still have information on the origins of radio and television networks which I haven't used yet, and I'm planning on taking RETROSPECT as far back as the origins of television, with articles dating back to 1906. If any of you long-time veteran DX'ers have personal accounts to send in, feel free.

Back to Rich Turcsany. He says WQTV, ch. 68 in Boston, which dropped STV, has conventional syndicated programs at night, but still carries Financial News Network from 10 a.m. to 4 p.m. He heard rumors that WNDS, channel 50 in Derry, NH, is on the air. (Not yet, I'm afraid.) WWSG still running very old movies and Three Stooges cartoons from 3:15 to 6:15 in the afternoon, and nothing else the rest of the day.

Bill Draeb wrote a letter which I didn't get to include last month. He saw the new channel 63 in Angola, Indiana, WXJC-TV. He described the signal as "very weak most of the time." (So did Bob Seybold, who got it in during the convention. I think Paul Gaines also had trouble getting it in. The station operates on 23.4 kw ERP with 300' HAAT, not exactly a superstation.) The channel 47 translator in Iron Mountain identifies itself as "The Movie Channel. Bill also asks for MDS information. Again, I would like to know where to find it myself. WRLE, channel 26 in Green Bay, WI, began construction of its new tower.

I have a few cards from Paul Gaines from the past two months. I really tried to keep last month's column short, and it worked. The October VUD was four pages shorter than the September VUD (one sheet of paper less), and the cost was 37¢ postage, whereas the 9/83 VUD was 54¢. First Class Mail runs in increments of 17¢ after the first 20¢ initial postage. So 17¢ saved for about 300 VUD's probably saved about \$40 to \$50. I didn't realize one sheet of paper could make

that much difference. So here's two months worth of note from Paul. WTVS, channel 56 in Detroit, is on 24 hours now. The Spanish translator on channel 66 in Detroit went on the air 7/14/83, with 6 kw ERP. Paul caught a goof of mine in a previous VUD (5/83). I mentioned WAIQ, channel 26 in Montgomery, IL. That should be AL (Alabama). There just happened to be a Montgomery in Illinois, just about 40 miles from WGIU-TV, channel 26 in Chicago. WWHO, ch. 24 in Toledo, is now using 4370 kw ERP. By way of clarification, WTVK, channel 26 in Knoxville, TN, is still on the air. They are one of the applicants for the new channel 8, a short-spaced drop-in VHF assignment by the FCC. While the other applicants for channel 8 are new, WTVK wants to change to a VHF station, which means less power required, less expense, greater coverage area, and more viewers. If they lose the chance to change to channel 8, they still get to remain on channel 26. He questioned a reference to applications for channel 24 in Toledo, Ohio. Not sure if that was something I typed or not, but channel 36 in Toledo, not 24, was just given to Toledo Telecasting, Inc. About Louisville, Kentucky: In the 6/83 VUD I listed an application for channel 41 which the FCC rejected. WDRB-TV is still on the air on channel 41 in Louisville. That application was not dismissed, it was returned. When the FCC dismisses applications, that means they were turned down. When the FCC returns an application, that means it was not acceptable for filing. That application was for a channel already occupied by WDRB-TV. Channel 21, however, was open for grabs, and WDRB-TV threw in its application to change from channel 41 to 21, but an applicant for a new station on channel 21 won out. I suspect the applicant for channel 41 jumped the gun, expecting that 41 would be vacant if WDRB-TV was given the go-ahead to change to 21. As for the channel 74 application in San Juan, Puerto Rico mentioned in the 4/83 VUD, that was also returned as unacceptable for filing by the FCC. It probably came about because the applicant believed the table of assignments in the Code of Federal Regulations. There are mistakes in the table, believe it or not. After several years, it still has ch. 80 in Areibo, 76 in Cayey, *74 in San Juan, several FM channel assignments, and a noncommercial ch. 46 in St. Louis, MO, while East St. Louis, IL has a commercial channel 46, presently under consolidated hearing with four applicants. As for Memphis, Tennessee channel 13, WHBQ is still on the air, but it is one of the RKO stations that the FCC is taking off the air, and the FCC already opened the channel to applicants for a station to replace WHBQ. Same thing that happened in Boston. Paul asks if WKPI-22 and WKHA-35 moved their transmitters yet. I have nothing saying that they have any plans to; at least no construction permits. Paul is still getting in a channel 55 which has a double ID as WNBO-45 and WEAQ-49. I can't find anything in my translator lists on that. I'm expect-

ing an updated microfiche list soon.

Tom Yingling purchased the EU-4S High Gain & Low Noise Wide Band Antenna Booster from DX Antenna Company. One puzzling thing in its brochure was a reference to a maximum output level of 105 dBu. That symbol is the greek symbol "mu." Tom isn't sure what it means, and neither am I. If you bought one of these units and came across this figure, you are probably wondering what it is. I did some research on it. dBu stands for decibels above onemicrovolt per meter ($\mu\text{V}/\text{m}$). It is a measurement of field strength. For UHF television, the FCC defines the city-grade contour as 80 dBu, Grade A contour as 74 dBu, and Grade B contour as 64 dBu. My only guess is that the booster will not generate a signal greater than that which would be received by antenna at twice the width of a particular station's wavelength at the 105 dBu contour line. In other words, not so strong as to cause serious bleedover into other channels and images if you happen to live a few miles away from a powerful UHF television station. An article Tom sent in from the 10/3/83 News American (Baltimore) deals with the FCC's proposal to allow networks to have syndication rights. As it stands now, networks have no syndication rights. The Hollywood production companies have the rights. But the FCC is proposing to let the networks have rights also. The networks are in favor of this, but the producers are naturally against it. President Reagan had a private meeting with FCC Chairman Mark Fowler about the issue. It is reported that Reagan is sympathetic toward the Hollywood producers on the issue. A meeting between the President and the head of an independent regulatory agency is quite unusual, and considered improper by regulatory experts. From the same paper, an article on Baltimore TV Cable. The city has yet to be wired. There are two rival cable firms, Caltec Cablevision and Cox/Port Vision, competing for the right to provide Baltimore with cable. Meanwhile, C&P (Chesa Peake and Potomac) Telephone Company is hoping to do the wiring for either or both companies.

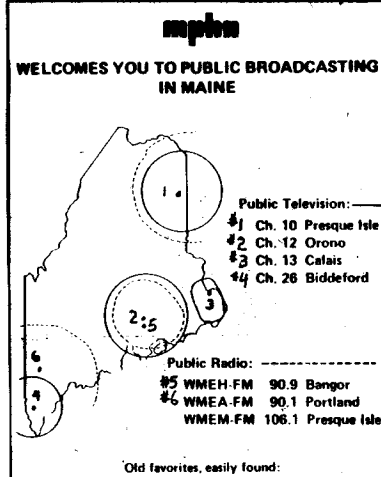
One note I read in the USA Today: KXLL, channel 41 in St. Cloud, Minnesota, that odd television station that plays only the programs that its station manager likes, played 24 solid hours of Leave It To Beaver episodes one day in October.

One more note, about the upcoming WTPDA Translator and LPTV station list. I ordered a microfiche list from the Department of Commerce. They don't send you the list when they receive your order. Instead, since the lists are updated about every month, they wait until the next list is out and send you that list. So I should be getting the list any time now. Once I get it, I can start typing it up. The only problem is that I don't have a microfiche reader, and will have limited access to one at the local library, where I will also have to do the typing. But the Translator and LPTV Station List will be a reality in a few months.

WWSG-TV, channel 57 in Philadelphia, Pennsylvania, uses SelectTV for its STV service as does WTVE, channel 51 in Reading, PA. Meanwhile, there is a local cable service called PRISM, which offers sports and movies to subscribers. Unfortunately, Philadelphia does not yet have cable, and thus are deprived of PRISM. WWSG-TV began announcing on its previously silent barker channel that it will be changing from SelectTV to PRISM on or about November 1, 1983. Meanwhile, WTVE is promoting SelectTV for WWSG-TV subscribers who don't want PRISM.

Well, here it is late Sunday night, October 16, and this column was supposed to be in Akron yesterday. If there are any typographical mistakes in this column, I'm sorry. I'm not going to take the time to proofread it and make corrections. I have a lot of material on the RARC-83 talks at Geneva on Direct Broadcast Satellites, with a related article sent in by Paul Gaines. I'll hold that for next month. Plus plenty of translator and LPTV updates. All that next month. I hope Dave Hieman doesn't mind if I leave the rest of this page for him to fill in.

-Bill Fahber



WELCOMES YOU TO PUBLIC BROADCASTING IN MAINE

Public Television:

- #1 Ch. 10 Presque Isle
- #2 Ch. 12 Orono
- #3 Ch. 13 Calais
- #4 Ch. 26 Biddeford

Public Radio:

- #5 WMEH-FM 90.9 Bangor
- #6 WMEA-FM 90.1 Portland
- WMEM-FM 106.1 Presque Isle

Old favorites, easily found:


Radio's

- Morning Pro Musica - 7:00 a.m. to noon, daily
- All Things Considered - 5:00 p.m., daily
- Prairie Home Companion - 6:00 p.m., Saturdays

Television's

- Masterpiece Theatre - 9:00 p.m., Sundays
- The MacNeil/Lehrer Report - 7:00 p.m., weekdays
- Sesame Street - 9:00 a.m., 12:00 noon, 4:00 p.m., weekdays

You will find us wherever you go!

Maine Public Broadcasting Network 

EASTERN TV-DX

William J. Draeb
Ellis St. R.R.#2
Kewaunee WI
54216

November 1983

Robert Seybold; Bennett Road, Dunkirk, NY

I better send in a report now before it gets any bigger. I will try to condense as much as possible. There has been lots of tropo here especially lately. Best was on evening of Aug. 18 into the morning of the 19th. Had 148 U's in 2 1/2 hours, plus many V's giving me over 200 for one day. Got a few new ones including 55 in Milwaukee; a ch. 69 xltr from Iowa; ch. 32 Muncie; a ch. 45 xltr of CFVO-30; CBLFT-26; ch. 63 Angola, In; WFBT-29, KCBR-17, WVCY-30.

Aug. 5 Tr Indiana, Ohio, Michigan U's good including such as WLFI-18, WNDU-16, WFFT-55, WBGU-57, WUHQ-41, and others.

Aug. 6 Tr - evening, super strong signals from all Chicago U's, also all S. Bend U's, FT. Wayne, Muncie, WLFI-18, WXJC-63, WHMB-40, Michigan U's on 17, 19, 20, 23, 25, 28, 31, 35, 41, 47, 50, 56, 62, 67, WGGN-52 & other Ohio U's good, WPNE-38, WVTW-18.

Aug. 7 Tr - WI, IL, U's strong; Milwaukee, Green Bay and Madison; Chicago U's strong, 26, 32, 38, 44, 60, 66; also Rockford U's, Peoria, Decatur, WICD-15 (evening tropo).

Aug. 8 A.M. - super opening into Iowa, Illinois; KRIN-32, KHIN-36; all Chicago U's strong also Rockford U's, Champaign, Decatur, Peoria, Wisconsin U's on 15, 16, 18, 21, 22, 28, 33, 34, 39, 40, 43, 46, 49, 55, 63; Michigan U's 14, 17, 19, 20, 23, 25, 28, 31, 35, 41, 47, 50, 56, 62, 67.

Aug. 15, 16 & 17 Tropo fair to good to 450mi.

Aug. 18 - Evening; super tropo opening (over 200 stations) incl. 148 on UHF. Hull 30 and its translator on ch. 45 (new). CBLFT-16 & CBLFT-26 (both new); also mystery on ch. 19 to NE. Canadian programming (after Toronto & Sudbury were off). Sudbury 5, 9, 19; Sault Ste. Marie (MI & ON) 8, 20; CBLFT-15, 32, 34, 44, 55; all MI U's, also Watertown-16, Norwood-18, Plattsburg-57, Utica 20, 33; WMHT-17, Augusta, ME-26; Syracuse-24; Ottawa-24, 33, 40; WBAK-38, WTAP-15, WKOI-43, Muncie 32, 49 (32 new), WXIX-19; all Chicago U's, also Peoria, Springfield, Decatur, Champaign U's; Hagerstown 25, 31, Oakland MD 36; Ohio U's on 14, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27 (2), 30, 33, 34, 35, 42, 43, 44, 45, 48, 49, 51, 52, 61, 67, plus xlters on 47, 55, 64, 65, 67, all Pittsburgh U's; WNPB xltr on ch. 41; Scranton Binghamton, Rochester, xlters on 55, 58, 59, 60, 62, 63, 64, 65, 66, 68, 69, 70, 72, 76 and others. V's in Cornwall, Montreal, Milwaukee and others.

Aug. 19 - Super opening tropo continuing without letup. Translator channels very active, all received on 18th still in plus xlters on 70, 71, 72, 73, 74, 75, 76, 77, 79, 80 & 82; Rochester-21, Binghamton-46, WNEB-17, WVIA-44, WCNY-24 and some others. WDCB-19, WXXA-23, WSEK-38, WVTA-41, Utica, Norwood, Syracuse, Watertown, Plattsburg U's all super. Poughkeepsie-54, WMHT-17; U's to the West strong; all Chicago, Rockford, Milwaukee, Madison, Green Bay, Peoria, Decatur, Champaign, Lexington 18, 27, 36; WOSU-34, WKPT-19, WAFF-48, WPTF-28, WWPB-31, W36AB, WNPB (ex WVU) xlters on 41 and 48; Philadelphia U's, WITF-33, WPMT-43 (ex WSEA), WLVT-39, WTVB-51, Red Lion-49, Baltimore U's, Scranton-Wilkes Barre, MI U's great; South Bend U's, Ft. Wayne U's; evening brought repeat of most of the above plus: Johnstown-19, Harrisburg-21, 27, D.C. 20, 26, Annapolis-22, WMSY-52, WSEN-47 (ex WSVN), WTAP-15, WHIZ-18, WOUB-20, WOUC-44, WNEO-45, WSFJ-51, WGGN-52, WPEB-42, WTJC-26, WOSU-34, WOAC-67, WHMB-40, WVAH-23, WPEY-33, Ottawa-Hull 24, 30, 33, 40; CBLFT-15, 32, 34, 44, 55; Elmira, Binghamton; WSKG xlters on 55, 58, 60, 66, 68, 69; WXII xlters on 65, 68; WVIA xlters on 63, 64, 65.

Aug. 20 Tr - Great opening again, Iowa-17 (new), 32, 36, 40, 69 (xltr where?); WI on 15, 18 (2), 19, 20, 21, 24, 26, 27, 28, 30, 31, 36, 38, 55 (xltr) (which one? -wd); MI on 14, 17, 19, 20, 23, 25, 28, 31, 35, 41, 47, 50, 56, 62, 67; WFBT-29 (new); Rockford 17, 23, 39; Chicago 20, 26, 32, 38, 44, 60, 66; evening - WTAP-15, WNPB xltr on 41; WOUB-20, WOUC-44, WHIZ-18, WOSU-34, WTOP-17, WXIX-19, WOAC-67, WKEF-22, WTJC-26; Ft. Wayne U's, Pittsburgh U's.

Aug. 21 A.M. Tropo - WCMU-14, WUCM-19, WMTV-15, WTAP-15, WNDU-16, unid-16 PBS to west; Urbana? (probably WUSI-wd); WVTW-18, WVCY-30, WHIZ-18, WKMI-17, WGVG-35, WLFI-18, WKOW-19, WHA-21, WPTA-21, WSET-22, WKAR-23, WDBO-24, WEYI-25,

Eastern TV-DX

Seybold; continued---

November 1983

WCIU-26, WTJC-26, WLRE-26, WPNE-38, WKOW-27, WSJV-28, WFUM-28, WFLD-32, KRIN-32, WKJG-33, WCFC-38, W39AA (WBGU), KDUB-40, WHMB-40, WQEX-16, WPTT-22, WPCB-40, WPGH-53, WUHQ-41, WKOI-43, WLIO-35, WTLW-44, WBGU-57, WENS-44, WOUC-44, WNEO-45, WHMB-46, WBAO-49, WSFJ-51, WFFT-55, WOAC-67, WBBS-60, WFHN-66, W55AS WNPB-16, Binghamton & Elmira U's.

Aug. 22 Tr evening fair; WITF-33, Harrisburg 21, 27; WPMT-43, WKBS-48, WCFC-38, WNDU-16, WNIT-34, WEYI-25, WFUM-28, WUHQ-41, WKAR-23, Toledo U's.

Aug. 23 Great Iowa opening A.M.; Iowa 21, 27, 32, 36, 40; Madison U's; WQRF-39; Chicago U's; Green Bay U's; WVTW-18, WLFI-18; KXLI-41 (new), WXOW-19, WNPB xltr on 41; WOUC-44, WOUB-20, WTJC-26, WOAC-67, WPEB-42, WKMR-38, WKOW-27; Pittsburgh U's good; many others such as Indiana U's etc.

Aug. 24 A.M. Tr KDUB-40, KRIN-32; Madison U's, WCMU-14, WUCM-19, WKMI-17, WGVG-35, WXOW-19, WCIU-26 & other Chicago U's; S. Bend, Ft. Wayne U's; WUHQ-41; WYI-20, WHMB-40; Green Bay U's; WLFI-18, WVTW-18, WFUM-28, WIPB-49, Elmira, Binghamton, Watertown U's; evening - super tropo; WXJC-63 (snow free), Chicago, Ft. Wayne, S. Bend, all super strong. WMTV-36, WGGN-52; Green Bay; WKOI-43, WTJC-26, CBLFT-15, 32, 44; WKBS-48, WNPB-18.

Aug. 25 Super tropo continuing; all Chicago U's excellent; Rockford U's; WAND-17, WTV-18; Green Bay U's; WCMU-14, WUCM-19; S. Bend, Ft. Wayne U's super strong; WIPB-49; all MI U's great. WBGU-57, WOAC-67, Poughkeepsie-54; WVT-30, WKBS-48, Elmira, Scranton, Binghamton, Utica, Wilkes Barre all good; WNPB-16, WNPB-18, WOSU-34, WTJC-26. Evening - WXJC-63, WKJG-33, WANE-15, WPTA-21, WFFT-55, WBGU-57 + its xlters on 27 & 39; WGGN-52, WOUC-44, WNEO-45, Pittsburgh U's CBLFT-15, 32, 34, 44, 55; CFVO-30, CICO-24, CHOT-40 & others.

Finally, Iowa seen 4 out of 5 days; never before. 700 mi. + tropo on these days. Best continuous tropo ever observed here.

Larry Vogt; 8103 Sherbrooke Ct., Springfield, VA 22152 EDT

The following loggings were made in Avon, NC using a Sony KV 1952 R with only attached VHF dipole and UHF loop. Avon is located on the outer banks of NC between Nags Head and Cape Hatteras. Some days there are literally no signals to be seen, yet when the band is open the dial is packed. Avon, NC is truly a DXers dream QTH. Next year I'll take along some "real" antennas. Of particular interest are the loggings from 2358 on 9/6 to 0027 on 9/7 of signals from both Boston, MA and Jacksonville, FL. A potential path of well over 1000 mi. existed for DXers in the MA and/or FL areas. This is my first report in almost ten years. We always come back. (I hope. -wd)

September 1983

September 1983

September 1983

6 Tr 1700 WLIW-21 NY 380	7 Tr 0101 WPTF-28 NC 185	10 Tr 0305 (WAVY-10)
1900 WAAT-40 NJ 275	0119 WRAL-5 NC 175	0637 WKFT-40 NC 190
1912 WUNJ-39 NC 155	0759 WGGT-48 NC 245	0647 WDCB-20 DC 250
1913 WRBV-65 NJ 275	0830 WJTM-45 NC 270	0651 WHRO-15 VA 100
1915 WUNM-19 NC 110	2035 WECT-6 NC 155	0652 WNUV-54 MD 275
1920 WBOC-16 MD 200	2056 WYAH-27 VA 100	0655 WCCB-18 NC 305
1930 WJNS-23 NJ 340	2300 WETW-13 SC 260	0729 WPCQ-36 NC "
2059 WUMK-25 NC 105	8 Tr 0159 WITN-7 NC 85	0745 W4-LAC VA 150
2100 WLFL-22 NC 175	Only "local" here.	(WAVY; Onancock)
2103 WRLH-35 VA 180	0204 WTKR-3 VA 100	W58AK VA 135
2358 WSEB-36 RI 485	0205 WCTI-12 NC 85	(WTKR-3)
7 Tr 0002 WSNL-67 NY 380	Only other "local".	0750 WETA-26 DC 250
0004 WJRS-17 FL 510	0217 WNCT-9 NC 105	0759 WJPM-33 SC 260
0020 WONE-25 MA 530	0222 WWET-12 VA 180	0820 WTKX-20 CT 400
0027 WAWA-30 FL 510	0225 WAVY-10 VA 100	0828 WTVT-30 CT "
0029 WPDE-15 SC 260	0646 WHNC-23 SC 235	0833 WHMM-32 DC 250
0043 W58AK (WTKR) 135	10 Tr 0200 WSEB-38 MA 530	0835 WQCR-50 DC "
0047 WMDT-47 MD 200	0230 WTAP-29 PA 340	0900 WAPB-22 MD 245
0058 WTVZ-33 VA 100	0257 WTKX-20 CT 400	
0100 WPHL-17 PA 340	0305 W63AM VA 135	

Robert Reas; VE3JFC Box 4373, Stn. C. London, ON N5W 5J2 EDT

May 1983

June 1983

July 1983

27 Es 2058 WBRZ-2 LA

26 Es 1145 KSNC-2 KS
1220 KOAA-5 CO

24 Es 2235 KOAA-5 CO
27 Es 1458 KOTA-3 SD
1459 KTWQ-2 WY

June 1983

July 1983

5 Es 2055 WTVY-4 AL
6 Es 1339 TV Nat.-3 Cuba

24 Es 2155 WUFT-5 FL

continued-----

August 1983
 19 Tr 0212 WOAC-67 OH
 0858 WHIZ-48 OH
 0931 WSFJ-51 OH

August 1983
 19 Tr 1020 WUCM-19 MI
 University Center

August 1983
 19 Tr 1100 WFUM-28 MI
 September 1983
 9 Tr 0436 WTOF-17 OH

Thomas J. Yingling, Jr.; 221 Pinewood Rd., Baltimore, MD 21222 EDT
 Here is a report for you column, that I finally got time to type up. Receiver is a Sony Trinitron model KV-1214 12" color set using a Finco 5' dish up 50' with Bladder Tongue Cma-Ub preamp and soon to be (when ever it comes) EU-4a UHF preamp and P-222 signal extractor from Jim Pizzi.

July 1983
 23 Es 1100 WNL-4 LA
 1120 KSPM-5 AR
 24 Es 1120 WCIX-6 FL
 muf 88.3

August 1983
 26 Tr 0010 W6AL VA
 cci/w W6AI NY
 0015 WEDN-53 CT
 0020 WTEY-54 NY
 over WNUV local
 0030 W62AU PA
 0440 WITN-7 NC
 0450 W6AL VA with
 WCAU instead of WTKR.

September 1983
 3 Tr 0350 WPCQ-36 NC
 Charlotte
 0400 WCCB-18 NC
 0405 WCFT-33 AL
 Tuscaloosa
 0536 WJTM-45 NC
 Winston-Salem
 0600 WRTS-49 SC
 Spartanburg
 0634 W64AO VA
 Charlottesville
 4 Tr 2000 WPMT-43 PA
 (WSBA had a call
 change; the call
 letters WPMT
 stand for Penn-
 sylvania Movie
 Time.)

August 1983
 25 Tr 2300 WSEK-38 MA
 2305 WSMN-27 MA
 2310 WNJU-47 NJ
 over WMDT
 2320 WJTM-50 NJ
 over WCQR
 2325 WDCD-19 MA
 2330 WSTG-64 RI t
 26 Tr 0000 WVIT-30 CT
 0002 WSNL-67 NY
 over W62AY; WMPB-67 3 Tr
 xltr.
 0003 WSNL-67 NY
 0005 WWHI-68 NJ

September 1983
 2 Tr 2050 WSEK-38 MA
 2055 WXTV-41 NJ
 2100 WSHE-36 RI
 2110 WLVI-56 MI e/WNVC
 2300 WEDW-49 CT
 0000 WWLP-22 MA
 0010 WTKX-20 CT
 0030 WVIT-30 CT
 0035 W59AN CT

As you can tell that I have been having some good traps here, with a new state on UHF. On the back is my comments with my report above, don't use these 2 lines as my comments. (Sorry, I just did.-wd).

On 9-3-83 traps I got some good UHF mileage in the direction I need the most from, the northeast. By time of my next report, I will have that new preamp that Jim Pizzi has, the EU-4s & p-922 signal extractor in use with a 3' corner reflector antenna till I change over from BT CMA-Ub preamp. I'm hoping to see a BIG improvement in my regular DXing. Oh! also on 9-3-83 traps I got a new state on UHF, Alabama. If any member is getting good traps or skip in my area, would you please call me anytime. Steve West calls me with one ring for skip and other members have skip alert systems too. If the traps is so good that Florida is in on UHF from NJ, please call anytime and get me out of bed to get in on the TV! I won't mind it one bit at all!

Fred Nordquist; 7945 Bexford Rd., Clay, NY 13041 EDT
 (All traps loggings are new.-wd)

July 1983
 4 Es 0917 WGBI-4 MS 995
 0921 WTVY-4 AL 985
 0925 WNL-4 LA 1190
 7 Tr 1735 CITY-57 OH 170
 8 Tr 0655 WBAO-49 OH 320
 0700 WVIZ-25 OH 310
 9 Tr 1930 WTVS-51 PA 200
 16 Tr 2400 WVER-28 VT 160
 24 Es 1322 WDSU-6 LA 1190

August 1983
 19 Tr 0145 WIHT-31 MI 395
 (WUHF s/off 0139)
 20 Tr 1005 WCIU-26 IL 600
 21 Tr 2054 CHEFT-48 ON 310
 2121 WOAC-67 OH 320
 22 Tr 2317 W26AA(WNED-17)
 Jamestown.
 24 Tr 0145 WBFF-45 MD 280
 2129 WFFT-55 IN 490
 2251 CHEFT-54 ON 350

September 1983
 9 Tr 0702 W76AH PA(WVIA)
 0703 W72AT PA "
 0707 W56AQ PA "
 30 Tr 0700 W1JC-26 OH455
 0701 WFUM-28 MI 385

Unided xlters are piling up with no way to I.D. them; unless I write to WSKG, WNED, WNEP, etc. (Get in touch with Bill Fahber; he may be able to help you out. Send a s.a.s.e. too.-wd)

August 1983
 10 Tr 0730 WFUM-28 MI 385
 18 Tr 2326 WCLQ-61 OH 310
 2327 WNEO-45 OH 305
 19 Tr 0101 WPSL-47 MI 435
 0050 CHET-9 ON 350
 0052 CICO-59 ON 310
 0054 WTVS-56 MI 355

September 1983
 5 Tr 0059 WXTV-41 NJ 190
 0726 WPMT-43 PA 225
 9 Tr 0641 WQPR-62 MI 355
 0653 W32-- PA
 (WNEP xltr)
 0701 W77-- PA?; NEC

Trope conditions still persist with warm wx even in Oct.

QSL CORNER

Thomas J. Yingling, jr.
 221 Pinewood Road
 Baltimore, MD 21222

TV-OSL

- DC WTTG 5 Washington, 5151 Wisconsin Ave. NW 20016. Send me a coverage-map & program schedule. Also send back my report form & checked it out against logs & send it back with note of verification. Back in 16 days. Purdue
- FL WUFT 5 Gainesville, Weimer Hall, University of Florida, 32611. Letter back in 1 month for no return postage, and also send 25th anniv. sticker. Ross
- MI WUCM 19 Bay City % Delta College Univeristy Centre, 48710. Send letter, program schedule, & coverage-map in 3 weeks from Ray Woods. Ross
- NY WUHF 31 Rochester, 360 East Ave. 14604. Letter from Mike Tamme, CE in 1 1/2 years after follow-up report. Ross
- NY WPTB 20 Utica, Box 20, Smith Hill Rd. 13503. Letter from Bobert Hajec, CE in 1 1/2 years after follow up report. Ross
- OH WTOV 9 Steubenville, Box 9999, 43952. Letter from Marvin L. Wite, CE. in 3 weeks. Poss
- WBNS 10 Columbus, 770 Twin Rivers Drive, 43952. Letter from William Orr, VP of Eng. reply in 3 weeks. Ross
- SD KOTA 3 Rapid City, Box 1760, 57709. Form letter for KOTA-AM-TV, KHSD, KDUH, KSGW, with handwritten entry indicating my report was for "recieving (sic) KOTA, KSGW, KDUH" (only the 1st & 3rd claimed!) Form letter has yes/no boxes to be checked; both left blank. Signed by Donald J. Larsen, Director of Eng. Jefferson
- TX KDFW 4 Dallas, 400 N. Griffin, 75202. Send 3x5 qsl card with my name & qth typed in, with no signer, or name. Reply in 7 days. Fahber
- VA WTVZ 33 Norfolk, 418 Boush St. 23510. Informal letter from Jerry Nichols, Asst. Chief Engineer. Reply in 6 days. Fahber.

This months reporters are Ronald Purdue of Byron, MN; John M. Jefferson of Pleasanton, CA; Robert S. Ross of London, Ont.; Bill Fahber of Bridgeton, NJ. And below is a copy of letter that Bill Draeb of Kewaunee, WI got verified from WRBV-TV ch. 65 in Vineland, New Jersey. Address of WRBV-TV, 4449 N. Delsea Dr. Box 2300, Vineland, NJ 08360. Signer was Daniel Merlo, CE. Not bad qsl for 730 mile tropo! I hope I get more qsl report items in as I'm still very low in supplies. Sorry about missing last month. My Olivetti Praxis 35 was in shop. It is an electronic keyboard, and was hitting the wrong letters (like you type a V and it would type a J). I hope I won't have to miss another month because of typewriter troubles. 73's Tom.

WRBV Channel 65

4449 North Delsea Drive - Box 2300 - Vineland, New Jersey 08360 - (609) 691-6565

August 29, 1983

Dear Mr. Draeb,

Thank you for your letter dated August 21, 1983. Having checked the operations log for August 21, I'm pleased to confirm your reception report. WRBV's transmitter is located in Waterford Works, New Jersey. Our tower is approximately 1000 feet high and the transmitter is an R.C.A. 7TU-110C. The transmission line system is completely wave guide. Our full licensed power is approximately 94W (ERP), however, on the day you were watching we were operating at half power.

Sincerely,



Daniel Merlo
 Chief Engineer

DM/ac

WESTERN TV-DX

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

November 1983

Deadline: 12-9-83

DX occurrences plummeted in September if my own experience and the lack of reports are any indication. However, there was some good tropo into Wisconsin at the end of the month.

New _____ New Mode _____ Tent. - t Unidentified - unid S/On - + S/Off - =
ID Color Bars - @ Unid Color Bars - % IHTP - \$ Misc. Test Patterns - &

Paul Mitschler, 508 Watson, Topeka, KS 66606

CLT?

May 1983	4 Tr 0849	KYNE 26 NE	26 Es 0830	WHSV 3 VA 920
26 Es 1814	WGBHt 2 MA	(Exc. o/KSNT-27)	WKYC 3 OH 756	
	WUND 2 NC 1086	KDUB 40 IA 355	1000 WJWB 2 MI 694	
1901	WESH 2 FL 1085	Clarinda Xlators		
1926	WSAVt 3 GA	7 Es 2147	WESH 2 FL 1085	
	WUFTt 5 FL		WEDUt 3 FL	
	WCTV 6 FL 874	8 Es 1000	XEFB 3 NL	
1945	WPBt 2 FL		XEW 2 DF	
	WPTVt 5 FL		XHD 4 TA	
	WCIX 6 FL 1298	1026	XET t 6 NL	
	WEDU 3 FL 1101	1525	WPBT 2 FL 1285	
	WPBT 2 FL 1285		WEDU 3 FL 1101	
28 Tr 0948	OKC 14,25, 34,43		Cuba 3	
	snow free 273		WUNC 4 NC 943	
	K3OAE 30 OK 236		Cuba 6 1376	
(Alva	KETA-13)	9 Es 1130	XEFB 3 NL	
	K38AK 38 OK 183	1245	unid ch 6 CBS	
(Ponca City	KETA-13)		WESHt 2 FL	
	K46## 46 OK ?		WSAV 3 GA	
	(Unknown)	1730	CKSO 3 ON	
	KWTV 9 OK 270	1755	XEPM 2 CH	
29 Tr 0643	KDNL 30 MO 281		XRIO 2 TA	
	K33AA 33 IA 229		KLII 3 TX 811	
(Ottumwa	KIIN-12)		KGET 4 TX 918	
	KDIN 11 IA 219		KID 3 ID 964	
	KHIN-36, KBIN-32	1905	KUTV 2 UT 912	
	(Snow free)	10 Es 1656	CFAC 2 AL	
0654	KSPR 33 MO 187	14 Es 1701	WRBL 3 GA 769	
	WEEK 25 IL 337		WESH 2 FL 1085	
0754	KHNE 29 NE		WEDUt 3 FL	
	(Snow free)		WEAR 3 FL	
		15 Es 1605	XHY t 3 YU	
			KPRC 2 TX 667	
June 1983			KLII 3 TX 811	
3 Es 1925	XEZ 3	25 Es 2100	Strong from se	
	XEWO 2 JAL		WCTVt 6 FL	
1930	WESH 2 FL 1085		WEDUt 3 FL	
4 Tr 0600	KDNL 30 MO 285		WESH 2 FL 1085	
0849	KCBR 17 IA 219	26 Es 0830	WPSX 3 PA 925	
	KTIN 21 IA		WFSB 3 CT 1224	
	KNLC 24 MO 285		WMAR 2 MD	

(Paul, you didn't mention what your channel 46 translator was carrying. I am wondering if it was K46AI at Durant with KETA-13? That might explain it being seen with WIEW on July 27. Nice catch with KVR! fm)

Jeff Kadet, Box 20, Macomb, IL 61455

CLT?

Equipment: Zenith N1310, Antennacraft 10 element hi-band yagi up 15', Channel Master Diamond Quantum up 30' with EU-4S preamplifier and RG-11 cable.

September 1983	5 Tr	WITI 6 WI 225	7 Tr 0600	KOLR 10 MO 265
4 Tr 0145	WFLD 32 IL 175	WFTI 18 IN 190	11 Tr 1730	KDNL 24 MO 125
0158	WFCF 38 IL 175	(With AN MD Telethon.)	1955	WCIU 26 IL 175

Western TV DX

November 1983

Jeff Kadet (continued)

13 Tr 1400	KDUB 40 IA 140	27 Tr 0518	KWWL 7 IA 160
14 Tr 0049	OK54AF 54 IA 90	0525	OKXOW 19 WI 225
	(Keosauqua KIIN-12)	0545	OKMEG 14 IA 325
11 Tr 1958	WSJV 28 IN 235	0625	OKSIN 27 IA 325
1959	WSNS 44 IL 175	0645	KHNET 29 NE
	(STV)		(PBS to west)
2000	WHME 46 IN 235	0728	KDIN 11 IA 175
2005	WFBN 66 IL 145	0756	WFBT 29 MN 335
	(STV)	0820	KTMA 23 MN 335
2042	WNDU 16 IN 235		(STV)
2120	KBSI 23 MO 225	0900	K74CO 74 IA 100
			(Ottumwa KCCI-8)
12 Tr 2000	KMTC 27 MO 265		K76BZ 76 IA 100
2001	WDDD 27 IL 215		(Ottumwa WHO-13)
2100	WCEE 13 IL 175		1000 WHWC 28 WI 310
	(ID'd as "C-13")	30 Tr 0145	WRHT 31 MI
2200	KOZK 21 MO 265		(Very weak STV to ene)
2310	WKOW 27 WI 180	0459	+WUHQ 41 MI 300
2315	KSHB 41 MO 235		(Wx audio before s/on)
	(Off beat AN show	0507	OKBAK 38 IN 180
	Locally produced		(Sign/on - 0535)
	"Allnight Live")	0545	WDHQ 24 OH 375
2331	WQRF 39 IL 145	0559	+WPIA 21 IN 280
2345	KSPR 33 MO 265		(W'21 Alive")
	(ID's as "SPR")	0610	WKJG 33 IN 280
13 Tr 0100	WIFR 23 IL 145	0745	WVUT 22 IN 205
0310	KSNL 16 MO 320	0800	WYCC 20 IL 175
0325	WHMB 40 IN 235		(ID u/ WICS-20T)
0655	KRIN 32 IA 160	0900	WNIT 34 IN 230
0729	K33AA 33 IA 100	0915	WKBD 50 MI 400
	(Ottumwa KIIN-12)		(NTV-50")
0800	K40AI 40 MO 100	0917	WFFT 55 IN
	(Kirksville SPN w/IDs)		(See comments)
0800	KPOM 24 AR 410	0945	WIPBt 49 IN
	(NBC network)		(PBS u/o/W49AA - east)
0809	KTVP 29 AR 350	1000	WFSL 47 MI 345
0815	KTEJt 19 AR		(WTVP off.)
	(PBS to south)		

Tentative WFFT-55 on the 30th - unidentified signal under WRSP with zero offset (or close to it) - no sign of expected WFFT CCI - did they change offset, or are they off frequency? Antenna east.

The Eu-4S is giving good results although it can be gruesome on images from Peoria (60 miles) and Springfield (75 miles) when they are coming in well and the antenna is pointed in their general direction. The Zenith N1310, however, has the most selective UHF tuner I've ever used, and most of the images can be separated from the real stations. Locally, KHQA-7 is all night weekdays now with CBS news. 73.

Nathaniel Ely, 1237 East Johnson St., #2, Madison, WI 53703

CDT

Equipment: Quantum 1110 with 2950 preamp + various traps at 57', C.M. 7' dish with 4990 preamp at 61', 70'/30' runs of .412/RG-11 cable, CD rotor, 1980 System 3 with remote. Grove Scanner Filter III for UHF. Tower, QDMX MD-56 (free standing)

September 1983

8 Tr 0257	K14AD 14 MN 315	26 Tr 1949	CKO03 42 ON 480	27 Tr 0909	CBFT25 25 ON 480
	(Willmar KSTP-5)	1950	CICOT 49 ON	0910	WBGUT 57 OH
	K22AC 22 MN 340	2008	CITY 57 ON 480	0915	WGTE 30 OH 310
	(Brainerd KSTP-5)	2115	WUTV 29 NY 525	1000	KYFC 50 MO 400
	K57CN 57 MN 160	2132	CFMtt 47 ON		(Finally!)
	(Wabasha KSTP-5)	2135	CBFTt25 ON		K33AB 33 IA 315
19 LS 0100	KNLct 24 MO 465		(Sibley K SIN-27)		
	WXIxt 19 OH	27 Tr 0725	WQLN 54 PA 465		KSHB 41 MI 400
	WTOL 11 OH 310	0726	WUTV 29 NY 525	1006	WCETT 48 OH
	LS 0230	0740	WSKG 46 NY 700		WIPBt 49 IN
	@KSHBt 41 MO 340	0800	WMGC 34 NY 700	1029	unid ch 63 e PBS
26 Tr 0058	K22AC 22 MN 340	0805	WICZ 40 NY 700	1032	CICOT 59 ON
	0100 KNMT 12 MN 380	0810	WSEET 35 PA	1036	CKO03 42 ON 480
	1925	0814	CITY 57 ON 480	27 Tr 1041	WUAB 43 OH 400
	CBFTt54 ON	0845	+CBFT8 61 ON 440	2100	WQLN 54 PA 465
	1938				

Nathaniel Ely (continued)		30 Tr 0759	WGTE	30 OH	310	30 Tr 0909	WKMA	35 KY	415		
		0805	WUAB	43 OH	400	0915	WVIZ	25 OH	400		
27 Tr 2100	K33AB	33 IA	315			0923	KYFC	50 MO	400		
2214	WYTV	33 OH	460	0810	WBGU	57 OH	310	0929	WNBO	45 OH	445
30 Tr 0744	WKON	52 KY	390	0811	WCLQ	61 OH	400	0947	WYTV	33 OH	460
	WCVN	54 KY	380	0909	WKLE	46 KY	430	1000	K33AB	33 IA	315
0750	WKFI	22 KY	540		WKHA	35 KY	515	1015	WABO	49 OH	415

I got a little despondent this month because of a lack of DX to report. When DX slows down like this, I tend to obsess about equipment changes I'd like to make, read old VUD's (not a bad idea) and flip aimlessly through blank TV channels. I put some of my time to good use sending out verification requests of tentatives seen this summer. My spirits rose with a very good tropo opening at the end of this month to Ontario, northern Pennsylvania, and New York.

I discovered a great way to waste money. I tried photographing some lightening scatter. Golly, you can tear-up a roll of film in no time flat! The LS was quite dramatic with some really superb surges of sound and color. Since I haven't been able to ID KNLC-24 via tropo (Milwaukee-24, too strong), I wrote the station telling them what I saw and requested a verification. We will see.

I've added a new piece of equipment to my line up. I bought a Grove Scanner Filter III. This is a tunable notch filter which can be tuned from 76 MHz to 500 MHz. Not much help for VHF interference, but it is useful for attenuating local UHF. The filter supposedly has a "1-2 MHz" notch with about a 40 dB rejection depth. It is a very lossy component - about 4-6 dB, I would estimate. The DA-805 now does full time duty on UHF to overcome this loss. All in all, it works very well. The trap does tune higher than specified - at least up to channel 27 - so, I am pleased.

Well, that's it for this month. I could go on and on because I really like to talk DX. The VUD's have been really great the last few months. Thanks to everyone who makes this club a success.

73, Nate.

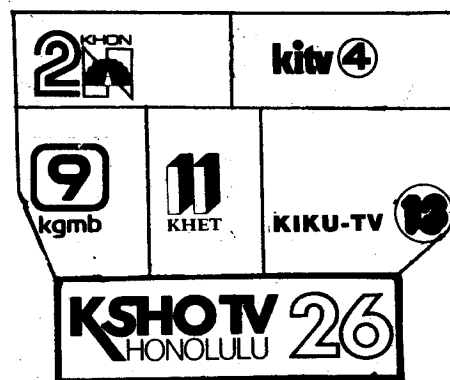
(Some last minute correspondence was received from Nate, passing along his thanks to Michael McNeely from Evansville, Indiana who suggests that his, previously reported, unid with TBN all night on channel 27 is WDDD from Marion, Illinois. Nate also pointed out that the October column showed his August 20th logging of WHIZ on channel 25 when, of course, it should have indicated channel 18. My apologies, the call letters and channels do boggle the mind some times, especially with a massive column like October's. fm)

Fred McCormack, 135 Prairiewood Drive, Fargo, ND 58103

CDT

Equipment: VHF: Broadmoor 9" black & white, Winegard CH-7078; UHF: Magnavox 19" color, Winegard CH-9095, Blonder-Tongue CMA-Uc pre-amp; Alliance rotor.

The only receptions beyond the ordinary in September were loggings of KXNE-19, Norfolk, Nebraska (320 mi.) and KHNE-29, Hastings, Nebraska (425 mi.) on the 17th at 1150 CDT, and loggings of WXOW-19, LaCrosse, (MN) (340 mi.) and WKOW-27, Madison, Wisconsin (445 mi.) on the 27th at 0542 CDT.



(Hawaiian logos from Rod O'Connor)



ANTENNA NEWS

Doug Dornbos
P.O. Box 1288
Traverse City, MI
49685-1288

November 1983

Dear Fellow DX'ers,

After a month layoff it feels good to be writing another Antenna News. I must say that I didn't mean to be hard-nosed about getting my catalogs back from the convention but I sure do appreciate seeing them on the shelf again. Thanks to Dave Nieman for expediting them. Whoever still has my Blonder-Tongue binder & catalogs can send them back anytime soon.

In the August issue I stated that starting with this issue I would be discussing the antenna system signal path. It seems that I forgot about rotors and their part in the scheme of things. We'll talk about them this month and get started with the signal path next.

Also please note my change of address. I would rather have letters sent to the P.O. box rather than my new street address as I am having a delivery problem here.

MEMBER'S INPUT

Nate Ely and myself have recently been sending what appears to be books rather than letters to each other. When Nate gets his interference problem licked I will write a synopsis of his trials and errors for the column (with his help/permission of course). He also wrote in regard to a product called Cramolin Red which is a highly advanced contact cleaner. Those readers of The Audio Amateur Magazine are already no doubt aware of Cramolin however many others may not be. Cramolin Red is probably the ultimate in contact cleaning, restoring, and conditioning. In fact reports indicate that even brand new contacts are dramatically improved by its' application. It is a fairly expensive product but is well worth the price and goes a LONG ways. It can be applied to antenna terminals, F connectors, phone jacks, volume controls, tuner contacts, speaker connections, etc. It is available by mail from Old Colony, Box 243, Peterborough, NH 03458. Cost is \$9.95 for a 2 dram bottle of Red for old contacts and a 2 dram bottle of Blue for new contacts. If you order from Old Colony be sure to mention that you heard of them through the VUD as they run an ad for the WTFDA monthly. Old Colony is Audio Amateurs mail order company.

To Jeff Kadet: Sorry I cannot answer your questions on B-T equipment since I don't have my B-T catalogs back yet as already mentioned. As soon as possible though I'll try.

Steve West suggests using Sears top rail for cyclone fences as a mast pipe. It comes in 18' lengths and he has had good luck using it with his 7' uhf dish. Thanks for the idea Steve.

Morgan Williams called requesting information on the defunct Finco company. For everybody's records here is the address of the people who bought out Finco: The Sonim Corporation, 211 South Washington Street, Clinton, KY 42031. Phone: 502-653-4348. Also I will apologize at this point for not being able to return any long distance phone calls, my budget just does not permit. Also if you should ever call and only my wife is home be reminded that she is not what one might call real excited about DXing. At least I know she didn't marry me just for my station log.

MAGAZINE ARTICLES * Eisenhower's second term

Handling FM to TV InterferenceRadio & TV News...Jan 1957
New Antennas Boost TV PicturesPopular Science...Mar 1957
Problems In Metro TV ReceptionRadio & TV News...Mar 1957
TV Lead-in Serves As sw or bc Band AntennaRadio & TV News...Mar 1957
Adjustable Half-Wave Filter " " " " ...Apr 1957
Novel TV Antenna Suspension; BalloonPopular Mechanics...July 1957

Antenna Articles 1957-1960 (cont.)

Interference Filters	Consumers Reports	Aug 57
Diplexer 2-set Coupler	Radio & TV News	Sep 57
3 Antennas On One Lead	" " "	Dec 57
Remedy For TV Interference	Popular Science	Feb 58
Rhombic Antennas For TV	Radio & TV News	Feb 58
Adding 21 mc To The Off Center Fed Ant.	" " "	Jun 58
Parabolic Antenna For Uhf TV	" " "	Jly 58
Make More \$ On TV Antenna Replacements	" " "	Aug 58
Indoor TV Antennas	Consumers Reports	Oct 58
Right Way To Stack Antennas	Radio & TV News	Jan 59
TV-FM Signal Distribution For Home & Shop.	" " "	Feb 59
Vhf TV Spectrum And Interference Chart	" " "	Mar 59
Antenna Installations: Fact & Fiction	" " "	Apr 59
How Good Are Indoor TV Antennas	Popular Science	Apr 59
Make Your Own Uhf Yagi Antenna	Popular Mechanics	Jun 59
All Channel Outdoor TV Antennas	Consumers Reports	Aug 59
TV Antennas For FM Radio	" "	Oct 59
New Antenna Rotor (formerly Radio & TV News)	Electronics World	Jan 60
Plug-in TV Antennas	Consumer Bullitain	Jan 60
TV Antennas That Use House Wiring	Consumers Reports	Feb 60
Line Cord Antennas: Fact & Fiction	Electronics World	Mar 60
Indoor Antennas, Outdoor Design	" "	May 60
TV Antennas	Changing Times	May 60
TV Fringe Antenna Selection	Electronics World	May 60
Hams, TVI, and Technicians	" "	Aug 60

PRODUCT REVIEW * ROTORS

Rotors are probably the easiest part of the antenna system to buy: you pick your favorite for your own personal reasons and go for it. Being a shopper however, I would like to take a brief look at the marketplace as it stands today.

Alliance has several rotors in their line but the bulk of their business is the U100 (the Volkswagen Beetle of rotors). It has been around for a very long time although there are now rumors that it will be replaced by an updated version. Independant dealers like the U100 because they are familiar with it, can repair it easily, and can buy it at a reasonable price. Mass merchandisers like it because they can sell them at low prices. The main advantage I see in the Alliance for some installations is that the mast pipe can be slid through the rotor making the antenna/pre-amp more accessible for repairs. The main thing I don't like about the U100 is the awfull racket it makes while in operation. It is the loudest control box on the market and will not allow DX'ing at night if sleeping infants are about. As far as accessories go, there are two worth checking into: One is the Alliance rotor bearing, it will greatly strengthen your installation, the other is the fantastic service manual Alliance publishes for their entire line which is available from their local distributors for a modest fee.

Crown manufactures rotors for Channel Master and Radio Shack and is a rotor that I like alot. It doen't cost an outrageous amount and is quite dependable. Channel Master also makes available the control box portion only which contains easy wiring directions allowing its' use on several other manufacturers rotors which may be discontinued or hard to get parts for. It also matches up to the Alliance U100 motor so you can get rid of that noise without getting a whole new rotor. As far as a comparison of the Radio Shack and Channel Master goes, it appears to me that the C/M has a stronger motor casing leading me to choose that over the Radio Shack. Channel Master also makes available the model 9515 which is a heavy-duty version of the 9510. It is an excellant unit for DX'ing as the control box is laid out with markings every 10°. A parts breakdown for servicing the 9510, 9512, & 9515 is available from your Channel Master dealer. Also all the Crown rotors can be converted to run on 220V.

Rotors-cont.

The Gemini rotor is available from Gemini, Sonim, & Winegard. I am not real familiar with the unit but have talked to people that are real happy with them for what they paid for them. Since price is often quite the overriding factor, this might be a winner especially during sale days at the local K-Mart since many of their stores carry the Gemini brand.

Hy-Gain/Telex has purchased the rotor division of CDE (Cornell-Dubiler) who had manufactured rotors for a very long time. Model numbers have stayed relatively the same so it seems like the very same line-it is. They don't give the units away but it is an excellent product and in the heavier duty stuff might well be your only choice.

Revox makes a rotor but it is not widely distributed in this country and I have never had the pleasure of seeing one. If it is anything like the rest of their products it is a choice product. Antenna Specialists also made a rotor available for some time in the Avanti line. The outfit was made by CDE.

Some products are available for those who have special needs. A company called Pro Search (St. Louis, MO) makes a very fine control box to adapt to many brands of motors. Actually, calling this unit a box is almost an obscenity. The product is a full fledged computer which will scan more than one heading automatically but most importantly, it provides a very useful device for blind operators in that the unit vocally calls out direction headings allowing very easy use for those with no sight. Price is in the \$600 area. Another unique product is available from Polar Research (Thief River Falls, MN). It is a double ring which circles the tower, the center ring being stationary and the outer ring turning. Their are mounting places for 4 antennas. It will fit on towers with leg spacing up to 18". Named The Lil Slipper you just might need a fairy-god-mother to bring one to you with the price being around \$450.

A couple of points should be mentioned about rotor selection/installation. First, make sure you leave enough cable above the rotor motor to allow the antenna to turn. Second, whenever possible put the motor inside the tower or tripod you are using. It is about twice as strong of an installation when mounted this way than outside the structure. If you have to mount it outside, I recommend using a rotor bearing such as those available from Alliance and Channel Master. Thirdly, the most important specification a rotor has is its' wind loading limit. If you live in a climate where ice build-up is a probability, always find out how much wind load your antenna presents when it has an ice build up on it. This number must be less than the load limit of the rotor. If you only know the no-ice wind load of the antenna, multiply it by 1.7 to get an approximation on the iced condition.

A table showing my favorite rotors in each price catagory is shown below.

Model-Make	Windload Limit (mounted inside tower)	Max. Mast Diam.	Price suggested
Alliance U100	3 sq. ft.		\$ 64.95
Channel Master 9510	3 sq. ft.	2"	69.95
" " "	9 sq. ft.	2"	129.95
Hy-Gain Ham IV	15 sq. ft.	2"	268.00
" " T2X Tailtwister...	20 sq. ft.	2"	334.95
" " HDR-300	25 sq. ft.	3"	559.95
" " R-3501	45 sq. ft.	call factory.....

CURRENT NEWS

Winegard has introduced their Chromstar II series of antennas and preamps. Next month we will cover the changes in their line. Also next month we will take a look at the Matco Electronics new 523 VHF-UHF scanner preamp.

Davis

NORTHERN FM-DX

Saul Chernos
79 Ridge Drive
TORONTO ONTARIO
MAT 1B6 (613) 737-0585

Elving, cont.

NORTHERN FM DX (2)

November, 1983

November 1983 No deadline-send when YOU want to
Report to NORTHERN if your DX is from: AK CT HA ID IA ME MD MA MT NE NH NJ NY ND OR PA RI SD VT WA WY and CANADA. Reports from other countries especially welcome.

Your friendly neighborhood editor is back in Ottawa again. Mail always to Toronto. I'm getting enough reports to indicate either the tropo is great or the tropo is great. People report excellent - best ever in some reports - ducting. I've got LOTS of reports here, most of which arrived in a period of a week, altho mailing dates were staggered. Mail takes 1-3 weeks to get here from most US and Canadian points. By the way Tr seems to have fizzled in Sept.

DAVID J. NIEMAN - 12284 Nice Road - AKRON NY 14001 Times EDT Akron near Buffalo

JULY	AUGUST
19 Tr "country-95"	2 Tr
2243 WYTK 95.3 PA Washington k ^	0706 WMPY 99.3 PA S.Williamsport m 150
21 Es	3 Tr
1749 KOBC 90.7 MO Joplin g	0901 CFCL 105.7 PQ Laval m FF o/CHRE-ON 295
23 Es (MUF 103.7)	7 Tr
1127 WABB 97.5 AL Mobile r	2035 WSHN 100.1 MI Fremont mr 370
1317 WLWI 92.3 AL Montgomery k	2130 WQWQ 104.5 MI Muskegon b o/CHUM-ON 385
24 Es (107.9 MUF) PA stn by Tr in middle	2159 WJUS 106.9 MI Muskegon k 385
1023 WJRW 92.1 FL Williston k	2215 90.9 WKJF heard w/ mr. Is this indeed
"Country-92"	WKJF 92.9 MI Cadillac? Maybe Doug Dornbos can help me with this one.
1028 WSVL 92.7 FL Gr. Cove Spr. s	2252 WBRN 100.9 MI Big Rapids rp 350
1047 WSHL 103.5 FL Ft Lauderdale r	2303 WAAQ 102.3 MI Big Rapids r 350
1059 WJOC 93.3 FL Tampa k	8 Tr (WTRQ is more like GW)
1202 WWVL 93.9 FL Miami Beach jr "Love94"1200	0001 WYEZ 100.7 IN Elkhart b 380
1400 WJSL 98.9 PA Philadelphia s WHFM-NY off	0100 WGSZ 91.1 IN Goshen \$ s-off 375
2006 KAJN 102.9 IA Crowley g 1150 / 275	0120 WACP 100.9 MI Oshago k 370
2015 WJUM 94.3 FL Marathon b	0128 WFRN 104.7 IN Elkhart g 380
2020 KJJB 105.5 LA Eunice k	0643 WLKI 100.1 IN Angola r 345
2057 KMAR 95.9 LA Winnsboro k	1705 WJRW 93.3 NY Rochester rp ex-90.9 50
2059 KEXX 93.9 TX Corpus Christi r	11 Tr
2102 KLPT 89.1 LA Ruston rp	1959 WNBX 103.7 NH Keene r 305
2110 KULM 98.3 TX Columbus k	12 Tr
2144 KLLS 100.3 TX San Antonio r	1859 WYUT 92.7 NY Herkimer m "Music of your life" (slogan or the oldies program?-ed) 175
2156 KAJA 97.3 TX San Antonio k "K-jay-97FM"	18 Tr
2213 WOSM 103.1 MS Ocean Spr. s-off	0700 WBSB 104.3 MD Baltimore r 265
26 Tr	2130 WQAP 103.9 MI Owosso b 285
2231 WBWC 88.3 OH Berea r "BW-FM"	19 Tr
27 Tr	0027 WGMZ 107.9 MI Flint b o/CING-ON 255
0700 CITE 107.3 PQ Montreal m FF	0645 WLKR 95.3 OH Norwalk mr o/CKDS-ON 245
29 Tr	0647 WOKU 107.1 PA Greensburg k o/CILQ-ON 200
0900 CHLM-1 103.5 PQ Lithium Mines FF	0700 WFGM 97.9 WV Fairmont b o/WPXY-NY 265
cant find on map (in FM Atlas p. 66 N. of Ro-	1814 WJCF 100.9 WV Westover b 245
uyn-Noranda, Maniwaki; near ON border-ed)	1900 WVVU 91.7 WV Morgantown rp \$ 245
31 Tr	2000 WLER 97.7 PA Butler r "Magic98" o/CJQR-ON 175
1257 WQXR 96.3 NY New York c	
1315 WNYN 97.1 NY New York r	

AUG 19 Tr cont.
2215 CJBC2 99.5 ON Kingston FF o/WDCX-NY 130
lots of "overs" in this opening, is over Buffalo, over Toronto, Hamilton, St Catharines...
The best of DX to you, DAVE.

Bruce Elving - 4515 Avenue "B" - KEARNEY NE 68847 Times CDT
JULY 14 Es: after 1900, WKSU 89.7 OH Kent, WITF 89.5 PA Harrisburg which didn't ID w/ Hershey; and WSKG 89.3 NC Binghamton. JULY 18 Es: KXTZ 94.1 NV Henderson at 1733, w/ b & in \$
JULY 19 Tr: KIDLO 96.9 SD Watertown, KZZA MN Glenwood \$ r (107.1?-ed), KOLV 101.7 MN Olivia \$, KNWS 101.9 IA Waterloo through usually-dominant Lincoln NE stn, KQAD MN Luverne now \$ r not yet on 101.1 (where they now-ed), KRQ 102.5 IA Des Moines, KCHE 102.3 IA Cherokee, KCMW 90.9 MO Warrensburg - the jazzy pest that often comes thru KUCV 90.9 Lincoln, and KEZU 94.5 KS Scott City w/ new calls but same format. I've ALSO heard KTPR 91.1 IA Ft Dodge and KILI 90.1 SD Porcupine w/ MILITANT INDIAN Programming and morning "POW-WOW" mx that goes on for hours. Supposed to be an NPR affiliate, but no NPR prgms heard yet; only their being credited on NPR for the "Wounded Knee" anniversary. It's a regular here, & if anyone wants a tape of it, SEND THE BLANK TAPE & RETURN POSTAGE FOR MAILING.

Bruce also adds he heard KIIQ 102.7 CO Manitow Springs on Morning of Sept 7 w/ \$ r and SCA mx, in a separate report. He also says: "And I have a question re the July VUD p.34. You list WFTF NY Attica as r. Have they switched from k?" (Haven't a July VUD nor my logs here, so I promise answer in column ASAP-ed) Bruce also wants to know about the following stations that lie within Northern country: WAES 93.5 NY Remsen is this \$. Are CTF 107.5 Quebec City and CJMF 93.3 of same place PQ also \$. Also, Page 38 July VUD KMSL 100.1 AR is "Stamps", not SPARKS. Bruce also tells me I should get an SCA adapter so's I can hear the Bird Chirps Clint McAuliffe was speaking about. (Frankly, Bruce, Bird Chirps are common in the wilds of Burnt River. Then there's the Russian Woodpecker. I'll spare you all the obvious groaner that lies herein. Seriously, I may send you a blank tape to see what SCA sounds like).

Alan Hyams - 2324 Boston Road - BRONX NY 10464 EDT (Welcome to the club, Alan, & Northern-ed)

First of all, let me just offer greetings to one and all, as a new member. And now onto AUGUST loggings:
1 Tr (0100-0300 when set turned off)
WBSB 104.3 MD Baltimore 175
WMAR 106.5 MD Baltimore 175
WHGR ? RI Providence 160
(WHJY 94.1 ??????-ed)
WPJB 105.1 RI Providence 160
WMYS 98.1 MA New Bedford 150
WLTJ 95.7 VA Norfolk 300
4 Tr
0030 WSBH freq? Southampton NY 85 (that's 95.3; send for Bruce Elvings FM Atlas, it's a superb guide-ed)
15 Tr at 2345
WKZE 104.7 MA Orleans 210
16 Tr 0015,0050 respective
WQGN 105.7 CT New London/Groton
WVHB 107.1 NY Hampton 130
Bays 80
AT BAKER FARM, LANESBOROUGH MA:
22 Tr
0025 CKQS Oshawa ON. (Now CKQT & is 30 miles E. of Toronto-ed)
0200 WALK NY Patchogue 130
Thanks to Paul Mount, Robert Goodman for assistance!

EDITOR'S COMMENT:
Despite an incredibly heavy school workload, I'm keeping my Canadian FM list up to date. So send in unIDs that may be Canadian.

Neil G. Zank - 623 Lyncrest Drive - LINCOLN NE 68510 CDT Pioneer SX-750, Archer 10 elem. Yagi

JULY 14 Es	SEPT 1 Tr
WHSP 94.9 PA Harrisburg	WHWC 88.3 WI Menomonie
WGCB 96.1 PA Red Lion	WLCL 99.5 MN Minneapolis
WFGC 95.5 MD Morningside	KEYE 102.1 MN StPaul-Mnpls
WASH 97.1 DC Washington	WAVC 105.1 MN Duluth
WWV 97.5 VA Charlottesville	
JULY 19 Tr	
KICB 88.1 IA Ft Dodge	
KFMB 98.3 IA Emmetsburg	

This is what has been added to my logbook this past part of the season. I'm sure that I may have missed some openings due to being sporadic in my listening habits. Neil G. Zank

Alan L. Michalek - 227 Redlands Street - SPRINGFIELD MA 01104 EDT Panasonic RF-2900 radio.

JULY 27 Es	JULY 28 Tr	SEPT 2 Tr cont.
1138 KISR 93.7 AR Fort Smith	0730 WJRW 100.1 NJ Manahawkin	2235 WADB 95.9 NJ Point Pleasant
1148 unID 96.7 "97-Country"	0741 WCAU 98.1 PA Philadelphia	2312 WJRW 100.1 NJ Manahawkin
1200 KLUP 97.9 OK Poteau g	0748 WESR 103.3 VA Tasley	2322 WYRS 96.7 CT Stamford
1202 KMOD 97.5 OK Tulsa	0805 WEXM 107.5 VA Esmore	2327 WFPG 96.9 NJ Atlantic City
1208 KXOJ 100.9 OK Sapulpa	0810 WHTC 106.3 NJ Eatontown	2330 WLIR 92.7 NJ Garden City
1211 KJEL 103.7 MO Lebanon	0815 WQHQ 104.7 MD Ocean City	
1215 KEZK 102.5 MO St Louis	0848 WXRI 105.3 VA Norfolk	
1218 KHFR 103.3 MO St Louis	0900 WNVZ 104.5 VA Norfolk "Z-104"	
1220 KDBQ 96.9 KS Pittsburg	AUGUST 25 Tr	
1223 unID 100.3 "J-100 in the capital city". (I suspect 100.1 in Jefferson City MO KJMO & is j-100 & is cap. of MO - yer ed)	0830 WUSM 91.1 MA North Dartmouth "FM-91" WMAU off air	
1238 KMWR 100.1 MO Vandalia	0917 WFGP 96.9 NJ Atlantic City	
1240 KMZU 101.1 MO Carrollton	0923 WSVI 104.5 PA Philadelphia	
1242 KMBR 99.7 MO Kansas City	0932 WUSL 98.9 PA Pha "Power-99"	
1257 KSKG 99.9 KS Salina r	0945 WNYE 91.5 NY New York	
1303 unID 92.9 "Z-93, the music station".	SEPTEMBER 2 Tr	
	2130 WOLC 102.5 MD Princess Anne g	
	2200 WHTG 106.3 NJ Eatontown	
	2223 WRDR 104.9 NJ Egg Hbr City Phils bb	

Some abbreviation I use in N'thm:
bb Baseball
fb Football
hg hockey game
W--- New logging
W--- By new Mode
elem. element
w/ with

Well, uh, it's taken me 15 days to do this much. My workload has gotten very heavy, what with all the TV filming I'm doing plus other classes. I CAN and want to continue Northern, but I'ts best to leave it for now, and I'll type more for next month. I'll be switching to radio in a few weeks, & my hassles should be over. I've about seven reports here, indicating lovely Tr. I've missed it all. SO SEE Y'ALL NEXT MONTH. Continue to send reports, please. I'm amazed and pleased with the support NORTHERN is getting. 73's & c. u. in thirty, Saul.

CENTRAL FM

Ralph Strobel, editor
2300 E. McGalliard Rd.
Muncie, Indiana 47303
Deadline: the 7th

CENTRAL FM DX

NOVEMBER 1983

November 1983

Report to Central FM if you live in the central states of MN IA MO WI IL IN MI & OH

Robert Grant KD8EN - 5775 Bishop - Detroit, MI 48224

Equipment: Magnavox AL789 port. Toyota Car Stereo (*) American audio car Stereo (**)

2/3 Es (**) (From Detroit)	7/20 Es (From Honor)
2032 KITY 92.9 TX San Antonio, r	(1937-2009 brought 9 new WI stations)
2032 KAFM 92.5 TX Dallas, (D-FW wx)	7/24 Es (*)
2041 KRLY 93.7 TX Houston, local ad	2240 KKQB 92.5 TX Pasadena, new wave
2042 KCKR 93.3 ?? ID heard clearly,	"93-FM, where Houston hears all the new mx"
"Kicker Country K-C-K-R" (not KYKR)	2251 KODK 92.7 TX Kingsville, calls
(You had Crockett, TX which is 93.5-RS)	(Class A)
2055 KLBJ 93.7 TX Austin, local ads	2306 KESS 94.1 TX Fort Worth,
2105 KESS 94.1 TX Fort Worth, SS	(SS, Fort Worth P.O. Box Number)
(Calls heard in SS)	2320 KEAN 105.1 TX Abilene,
2130 KIXS 93.3 TX Killeen	"Keen Country," local ad
2134 KGTN 96.7 TX Georgetown, r,	7/25 Es (*)
(written verie)	0001 KTSU 90.9 TX Houston, ID
2142 KWTX 97.5 TX Waco, call jingle	7/25 tr (*)
7/14 Es (From Honor)	0003 WGLL 91.1 MI Houghton,
1940 KMBQ 93.7 LA Shreveport	(MN Public Radio, local ID)
2000 KWEE 97.1 AR Camden	8/16 tr (*) (From Detroit)
2005 KCKZ 107.5 LA Ruston	0000 WDMT 107.9 OH Cleveland, s, ID
(AP net nx, ID, k)	0022 WKDD 96.5 OH Akron, calls
2009 KINB 107.3 OK Poteau, calls	0026 CJBC 99.3 ON London, (CJBC-20), FF
2017 KOOI 106.5 TX Jacksonville,	0026 WKSX 99.5 OH Cleveland, k, "KS-100"
(ment. Jacksonville, K-double-O-I, bm)	(burning through WABX as if they weren't
2022 KYKX 105.7 TX Longview	on the air. WABX was inaudible until the
2033 KTYL 93.1 TX Tyler, calls	tr began to thin out about 0210)
7/20 tr (*)	0039 WBEN 102.5 NY Buffalo, "R-102," PSAs
1935 KFMW 107.9 IA Waterloo, calls	0044 WZLE 104.9 OH Lorain, calls
(now r, was b)	0050 CBCL 93.5 ON London
2000 WJNR 101.5 MI Iron Mountain, calls	0308 WCCK 103.7 PA Erie, "K-104"
(Time is EDT)	0310 WQAL 104.1 OH Cleveland, (still b)

FM DX is full of surprises. When strong Es hits a Class A channel, it sounds like 1400 kHz AM at sunrise with a very good receiver. Not much noise, but several stations fading in and out on the same channel.

KESS is the first FM station heard at both Detroit and Honor. I never thought that the first FM to be heard at both places would be a spanish speaking station. CKJY 93.9 has slowly drifted to a garden variety b format station. "Canadian Content" laws have something to do with it: it's easier to get Canadian "Muzak" than Canadian "Big Band" music. Meanwhile, on the other side of the spectrum: CKLW (800) is going from rp to rn according to the newspapers. The 50,000w station that once was the #1 station in North America is no longer in the ratings at all. (That means less than 0.5%) while WHND (560) & WWHK (1430) are in the ratings - (both suburban 500 watters). WNIC (1310) is a total waste. When they are not simulcasting FM they are satellite fed. What makes me mad is that WNIC could care less about their AM while other AM's (WHND, WCAR, WWHK or WCHB) would love to get their fingers on facilities like that.

(Editors comment: The above report was misplaced and forgotten about until I ran across it by accident. My apologies! Can everyone forgive me, etc. etc?? Post-mark on the letter was August 24. If you send a report and don't see it in print, be sure to contact your editor. Letters can be lost in the mail. My fault.-RS)

Bob Zent - 1835 Fruit St. - Huntington, IN 46750

9/30 tr 2231 WSWR 100.1 OH Shelby-Willard, local ad, call letters 145
2359 WGGN 97.7 OH Castalia-Sandusky, g, ID 145

I made a mistake in my July DX report. I listed Shreveport LA 100.1 as WCOZ. It should have been KCOZ. (WCOZ is an FM station in Boston). Weather has remained unusually warm for this time of year here in the northern midwest, which probably accounts for the absence of our annual fall tropo. Hope conditions improve before long.

73s, Bob

Jeff Kadet - Box 20 - Macomb, IL 61455
Equipment: McIntosh MR-78 - \$stereo Probe 9 up 28 feet

8/24 tr	8/29 tr
0328 WVLK 92.9 KY Lexington, "K-93" 365	0735 KQMO 97.7 MO Brookfield, 140
KGRC on rare SP this am & next am.	Jeff Elliott DJ
0403 WZEE 92.9 TN Nashville 370	0738 KMFL 102.9 MO Marshall, "FM-103" 170
0430 KBEZ 92.9 OK Tulsa, 415	0808 KLPW 101.7 MO Union, k 150
"Tulsa's first choice for relaxing music"	9/1 tr
0545 KSLH 91.5 MO St. Louis, s/on 125	0105 KMSU 89.7 MN Mankato, s/off 300
0600 WLCA 89.9 IL Godfrey, s/on, 115	9/2 tr
"Lewis & Clark Radio"	0128 WSPL 95.9 WI LaCrosse, 225
	MoR, "FM-96"
8/25 tr	9/4 tr
0320 WYSO 91.3 OH Yellow Springs, r 340	0400 WCML 91.7 MI Alpena, 480
0430 WSOJ 89.9 KY Madisonville, rel. 275	CMU Public Radio, AP net. nx
0435 WUOL 90.5 KY Louisville, s/on, 300	9/5 tr
University of Louisville	0200 WIMT 102.1 OH Lima, ABC nx 330
8/26 tr	9/6 tr
1015 WKYU 88.9 KY Bowling Green, 335	0725 WHLA 90.3 WI LaCrosse 225
"Music in the Morning Show"	9/9 tr
8/29 tr	0610 WHHI 91.3 WI Highland 175
0100 KALA 88.5 IA Davenport, s/off, 75	9/10 tr
100w, St. Ambrose College	2350 KVNO 90.7 NE Omaha 280
0358 KCEZ 94.9 MO Kansas City 235	9/11 tr
0400 KSMU 91.1 MO Springfield, 265	0112 KESY 104.5 NE Omaha 280
not on listed 89.1	0127 WAXX 104.5 WI Eau Claire 300
0408 KLFO 98.5 OK Tulsa 415	0240 KROA 95.7 NE Grand Island, 400
0410 KITO 95.9 OK Vinita, k, 355	called up station
My first OK Class A, Bill Scott DJ	0437 WIBM 94.1 MI Jackson, 340
0428 KLAZ 98.5 AR Little Rock, 410	Craig McKay DJ
Ellie Todd DJ, "Z-98"	0500 WKFR 103.3 MI Battle Creek-Kal. 280
0455 KMJX 105.1 AR Conway-Little Rock, 410	2019 WZVN 107.1 IN Lowell 170
r, "Magic-105"	9/12 tr
0508 KEMB 107.1 MO Birch Tree, 250	0005 WIAN 90.1 IN Indianapolis, ET 235
k, "FM-107-\$tereo"	9/21 tr
0523 KVVC 106.3 MO Cabool, k, SID 250	2205 KWAY 99.3 IA Waverly 175
0614 KMOD 97.5 OK Tulsa, 415	9/24 tr
"The rr station-KMOD"	0510 WESN 88.1 IL Bloomington, 87
0620 KDBQ 96.9 KS Pittsburg, "FM-107" 300	120w, tried for often b4
0628 KTRI 95.9 MO Mansfield, "8-96" 250	9/28 tr
Promo for "The Way We Were Show"	0215 WMZK 92.1 MI Traverse City, 385
0730 KBEK 107.3 MO Lexington, wx 190	r, "Music-92"
(Time is CDT)	

Took down the antenna on the 12th and put it on a new mast closer to the shack. Instead of using 75 feet of RG-59, I now have 40 feet of Belden 8275. Reception seems "hotter," but cable radiation (weak open carriers) is more noticeable.

Ralph Strobel - 2300 E. McGalliard Rd. - Muncie, IN 47303

10/1 tr	10/10 tr
0000 KASU 91.9 AR Jonesboro, faint 450	0029 KWFM 93.9 MO West Plains, r\$ 450
s/off with WSIU and WFPK both off	0111 KZZC 98.9 KS Leavenworth-KC, r\$ 520
0100 WCXT 105.3 MI Hart, rp\$, o/WASK 230	0146 KTXR 101.5 MO Springfield, b\$ 500
"CXT and "X-105"	0209 KLSI 93.3 MO Kansas City, r\$, 520
1102 WCEN 94.5 MI Mount Pleasant, nx, 210	"Classey-93", wx, SID = Sang ID
(Ant. aimed SW) "94-Country" \$	0243 KMZU 101.1 MO Carrollton, k\$ 450
10/9 tr	0303 KRVL 106.5 ?? Where? ???
2349 KOPN 89.5 MO Columbia, blues \$ 400	(Time is CDT)

From Sept. 16-26 I was in my hometown of Coeur d'Alene, Idaho. The purpose of the trip was due to the fact that North Idaho College was celebrating its 50th anniversary. The celebration featured myself as oboe soloist with the North Idaho Symphony Orchestra, an ensemble my brother, nephew, and niece all play French Horn in. Coeur d'Alene has about 21,000 people and one Class A FM station. The closest town of any size is Spokane, Washington with a population of about 100,000. Only about 10% of the FM band has filled in so far. It would be a great area for skip, as few locals are to be found. Doubtful that I missed any DX here while I was gone.

"Please Come Home."

With these words heard through a stereo, a new era in radio listening and DXing had begun—92 kHz SCA! And a brand-new service—SCA paging!

Since first hearing those ephemeral words at 1:25 p. m. CDT Oct. 7, 1983, I have been glued almost constantly to the 92 kHz of KROA (FM) 95.7 Grand Island NE. Not that radio paging is that exciting to listen to. What I heard averaged three transmissions per hour, with each transmission preceded by a brief tone and the transmission itself lasting no more than five seconds at a time. Think of it! Listening to a radio for fifteen seconds of information in an hour; otherwise, a dead carrier! But this seemingly insignificant flow of information is the talk of the radio industry. I have heard only one other paging FM SCA—on WWIB 103.7 Ladysmith WI, and that was testing. This one is for real, and it is on SCA's brand-new frequency—the formidable 92 kHz! It helps that KROA keeps its 92 kHz carrier on all the time. Thus, no squelch circuit is needed, and the ever-present carrier helps a person tune it in and to design circuitry for the precious moment when words will flow forth—words that can be heard in the English language! Not data for computers to intercept, but words for FM listeners everywhere in the station's coverage area with special SCA radios to intercept and to understand!

From my experience with 92 kHz, I'd say that it is the technical equal to 67 kHz. Crosstalk interference from the main channel is negligible, and from KROA's 67 data SCA nonexistent. The talking is on too short a time for me to have concluded whether the new SCA nibbles into the main carrier of KROA, its old 67 kHz SCA, or into adjacent channels. I have no trouble hearing KRSL-FM 95.9 Russell KS, as before. KROA, at 65 kilometers, is not quite a primary signal into Kearney. Yet, I find that four of my radios get it very well. The two stereo receivers with outdoor antennae and the Eico-565 integrated circuits get it very well, just by tuning the adjustable potentiometer. I get it also on a Wards TV set with FM-AM radio and a tunable XR2211 chip, as well as on a Zenith clock radio with the XR2211, using just the radio's line cord antenna. Three of these sets, including a Sansui receiver, are listed in my new electronics catalog as being for sale. I am also including the new XR2211 circuit in all the TV-audio radios with UHF and AM-FM, including a surface-mounted control for SCA fine tuning.

It may have been misleading when a couple of months ago the FCC-FM column mentioned that five years could elapse before I come out with a 92 kHz SCA device. Fortunately, one of the very few 92 kHz FM stations in the nation (the other one I know of is KWOA-FM 95.1 Worthington MN) has started in my back yard. I am in the process of phasing out all adapters using coils, and hope to make the adapter with the XR2211 chip standard. I am working on a printed circuit version of that, which will be postage-stamp size, 31 mm², or the size of the 15 cent Robert Kennedy, Scott No. 1770.

A wired and tested version of the XR2211 circuit, on perfboard, is available from

the author at \$20. This circuit can be used in small radios, playing on as low as four volts DC, and up to 20 volts DC. Kits will be announced later, when printed circuit boards are finished. Many installations I do in the future will have a surface-mounted SCA tuning control, so the user can readily dial all of the SCA frequencies as easily as adjusting the radio's volume control.

You may want to try your luck at 92-kHz SCA. If you have an adapter built by Eico, or if you followed the diagrams in the VUD that I published several years ago, you might be able to tune in that frequency right now. Refer to Figure 1, and you will see that, with a 5-kohm potentiometer you can pretty

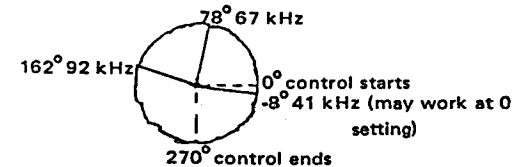


Figure 1: Where FM-SCA programs come in, using a 5-kohm control.

well guess at the new SCA frequency as being almost half the distance from where you find the 67 kHz and the end of the control. Realize that some controls may be wired backwards from the way depicted, and are adjusted in an opposite fashion. You should find that the 67 kHz spot is closer to the beginning of the control, and the wide expanse from 67 kHz to the end of the control has 92 kHz about at its midpoint. These settings are approximate, and may vary with controls of higher resistances, or if the control has an audio rather than a linear taper. With an audio taper, the point where the 67 kHz is heard is farther into the control, and the remaining area for 92 kHz is more compressed toward the top of the control's tuning.

Obviously, with SCA capturing the imagination of broadcasters so prominently, more will be done with the 92 kHz channel than any of us could have envisioned a few months ago. My experience with it is that it is as good a service technically as 67 kHz. When listening to the main channel in stereo and tuning from stations which have no SCA, to KROA with two SCAs, I can detect no volume loss, which is a thing many broadcasters fear who are in highly competitive environments for selling advertising. Indeed, broadcasting with one—and now two—subcarriers involves no compromise to the technical integrity of the FM signal, and broadcasters who have been reluctant to add an SCA should not hesitate, especially if the service is meritorious (profitable, and/or a public service to an audience).

The same broadcasters who have used 67 kHz will be the ones more likely to add 92 kHz as a further extension of their service. I doubt that we will find stations using only 92 kHz, and not 67 kHz, although this is possible. And those of us who may be DXers or even "pirates" will as quickly have equipment to monitor 92 kHz, as well as 67 kHz, or any other SCA frequency. I will do what I can to help lead the way toward full legal public tunability of both the new as well as the old SCA frequencies.

Bruce F. Elving, Ph.D.



SOUTHERN FM DX

Danny Buntin
1312 N. Skyline
Stillwater, OK 74075

DEADLINE: 10th

Ken Simon, 513 Sixth Ave. South, Lake Worth, FL 33460

7/11 Es
1936 88.7 KUHF Houston, TX, ID
1945 92.9 KITY San Antonio, TX, ID
2021 93.7 KLBJ Austin TX, \$, Austin ment.
2026 106.9 unID "21 viewers"
2032 105.3 KWED Seguin TX, local wx
7/12 Es
1330 93.3 KLSI Kansas City MO "Classy"
1332 94.1 KFKF Kansas City KS, new call
1334 94.9 unIDs prob WINZ?KCEZ
1338 107.3 unID c&w w/KC Royal net, KKRD??
1348 106.5 KKCI Liberty/N. KC MO, \$, r, KCI
1353 104.3 KBBQ Kansas City MO, \$ KC wx
1400 102.1 KYYS Kansas City MO, KY 102
1403 98.1 KUDL Kansas City KS, ID and TS
1409 90.9 KCMW Warrensburg MO, ID
1448 93.3 WQFM Milwaukee WI, WISK/WQFM men.
1456 93.1 WPAT Patterson NJ, ID
1458 94.7 WMAS Springfield MA, "MAS"
7/13 Es
1812 92.9 KBEZ Tulsa OK, ID
1817 93.1 unID, ad for Kingman S&L in
Kingman
KWLS Pratt KS, "Country LS"
1830 94.7 KECB Oklahoma City OK, local spx
1831 96.1 KXXY Oklahoma City OK "KXY"
7/17 Es
1927 92.9 unID relig SS
1930 93.1 XHAA Reynosa Tam, local ads
1932 91.7 KVTI Dallas
1937 96.1 KIWW Harlingen TX in SS
1950 99.5 KRIX Brownsville TX
2000 92.9 KBEZ Tulsa OK, local nx
2016 94.1 unID SS drama
7/21 Es
1808 90.1 WYTK Rock Island IL, local nx ID
1820 88.1 unID SS ann. ment. disco...\$
7/23 tr
0735 98.3 unID SS suspect WIKX Immokalee,
FL
7/24 Es
0943 88.1 CBON-18 Sault Ste. Marie ON,
Radio Canada, service for Northern(?)
Ontario, FF
88.7 unID r, suspect CJOM
0957 91.7 unID c, Central Mich. U ment.,
WCML or WUOM
1008 94.5 WGEN Mt. Pleasant MI, ad
1014 96.9 unID r, Mt. Pleasant/Alma(MI)men.
1030 93.1 CHAY Barrie ON, ID
1045 96.1 WHNN Bay City MI, ID, wx
1047 107.5 unID relig o/WQBA (suspect WGRP)
1050 106.9 WCCC Hartford CT, ID
1103 92.7 CBMB Sherebrooke PQ, CBC ID,
Montreal weather
7/24 Es
1120 106.5 WPHY Albany NY, local ads
1122 103.7 WERI Westerly RI, wx with Peter
Pan ID
103.7 WMGM Atlantic City NJ, S. Jersey ad
103.7 WIXL Newton NJ, ID
1133 102.1 WTCQ Philadelphia, local ads, ID
1136 100.3 unID ment. Boston
1151 104.1 WKKW Allentown PA, ID
1200 107.5 CBCK Kingston on, BBC nx
1218 88.7 WBF0 Buffalo NY "Buffalo jazzline"
annmt
1815 93.1 WMGX Portland ME Magic 93
1821 100.3 WHEB Portsmouth NH "HEB" ID
1827 101.9 WCIB Falmouth MA, local ads
1836 102.1 WIOQ Philadelphia PA, Q102 ID
1839 96.5 WCMF Rochester NY, ID
1839 93.3 WMMR Philadelphia PA, ID
1855 96.3 unID Boston Red Sox net
1858 96.3 WHUR Washington DC, ID
96.3 WQXR NYC, NY, ID
1900 97.5 WNCQ Watertown NY, ID
1912 103.7 WQNY Ithica NY, ID
1935 99.5 WKSW Cleveland OH, KS100
1945 107.5 WCCN Neilsville WI, WI wx
2011 106.9 WMUS Muskegon MI "MUS" ID
2013 103.3 WCRF Cleveland OH relig FM103
2019 101.3 WLLR E. Moline IL, Davenport ad
2021 100.3 WCLT Newark IL, T-100, local wx
2030 106.5 KRVR Davenport IA, ID
2038 102.9 KQCR Cedar Rapids, IA, Q103
1040 101.9 WLDL Traverse City MI, ID
2050 91.5 WBEZ Chicago IL
2056 91.7 KSUI Iowa City IA, ID
2200 102.9 KMGC Dallas/FW TX, ID
7/31 Es
1945 95.7 WQMF Jeffersonville IN "QMF" ID
1948 94.7 WFBQ Indianapolis IN "Q-95"
1949 99.7 WSHW Frankfort IN "Shine99"
1953 106.5 WFML Washington IN, info on IND
festivals
1955 105.3 WASK Lafayette IN, k, ID
1959 107.1 unID "Network Indiana" news
2000 107.1 unID "WROW" ID
2009 96.5 WAZY Lafayette IN "Z-96" ID
8/6 Es
1850 88.8 TG-- Guatemala City, local ads, SS
SS psa about "el dia de la bandera de
Guatemala"
8/14 Es
2030 88.5 WFCR Amherst MA, EE/SS, w/ID
2050 88.7 WNHU West Haven CT, w/ID
8/17 Es
1320-1330 unIDs 88.3 g, 88.7 c

As you can see Es picked up. Been using a Radio Shack digital car radio w/ power supply indoors and split into TV system. Tower still not back up, but I hope to get it done before '84 Es season. On March 28 my wife, Susan, gave birth to a baby girl, Anne. This could end up cutting into DX time...(that was a joke...). Anne takes priority over most things.. '73's.

REPORT your FM DX to this column if you're from: AL, AR, AZ, CA, CO, DE, FL, GA, KS, KY, LA, MD, MS, NC, NM, NV, OK, SC, TN, TX, UT, VA & WV.

VIDEO LINES

Bill Thomson
1907 Seneca Street
Buffalo, NY 14210

I know, I know--this column has been appearing rather irregularly. Thanks for your comments on it, and sorry. The past few months have been hectic, and space is at a premium when the VUDs are crammed full of DX. Let's get on with it now!

The Blonder-Tongue CMA-Ub is now history. If you want to use one of these classic mast-mounted signal boosters, you'll have to try to find one that is sitting in a warehouse, or perhaps on the shelf of a dealer somewhere in an area where UHF preamps don't "move"--after all, most people do not know what a preamp is, and generally don't use them. The CMAU-b is designed to be used in a small MATV system, and is usually only used by those installers who know exactly what they're after--weak, distant UHF signals.

When it was introduced in the mid-70's, many of the top UHF TV DXers, people such as Cooper, Draeb, Janowiak, etc., quickly acquired the new "b" version of the classic B-T CMA-U. All agreed that it was the best available commercial unit--anything better in a broadband UHF preamp would have to be custom designed.

There were frustrating problems though. Strong local signals will cause problems in any preamp, and the moderately high gain in the three-stage unit is usually the culprit. And as the state of the art of low-noise transistor technology improved, it became possible to market very low noise pre-amps. Remember, the noise figure is what is of most importance to the DX enthusiast using a preamp. High gain is good to have, but causes problems that are not as readily encountered in preamps having moderate-to-low gain figures. So when Winegard introduced its AC-4990 in 1976, it took advantage of a then-new low-noise transistor, and kept this unit simple, with only the moderate gain possible from a simple two-stage design, but with the lowest average noise figure offered in a commercial unit. This unit is, however, intended for residential installations--not a MATV-grade piece of equipment like the CMA-Ub.

Nevertheless, a lot of DXers decided to opt for AC-4990s in their systems. In addition to the low noise figure, it offered tremendous overload rejection. The major drawback is that the gain rolls off rapidly as you go higher in frequency with the AC-4990. Many DXers feel it is practically useless on the translator channels in the upper part of the ch 50 to 69 range. So the DXers were very disappointed when B-T recently introduced their CMA-Uc. In addition to reducing the gain of the CMA-Ub, they failed to match the low noise figure of the AC-4990 on the low end of the UHF band.

I'm happy to report that all is not lost. Winegard has an MATV preamp available that is not only the equal of the classic CMA-Ub on the higher channels--it may be even better. And the most incredible thing is the response to strong local signals. It does not overload as badly as a CMA-Ub. Since it offers moderately high gain (in the 25 dB area, fairly flat across the UHF band), it will not respond to local overload quite as well as their AC-4990. But in general, after a month of using this preamp, I have found that it makes the AC-4990 look like a toy in comparison. Gain is claimed to be between 25 and 30 dB in some literature on this unit, but it was re-designed recently, so there may be some disparity between the first of these units (introduced last year), and the latest versions, which several WTFDAers have now obtained. A more complete review of the Winegard PA-4975 will appear in a later VUD. My purpose this month was to let you know about it. Word has it that it retails in the \$135 range--but wholesales at less than \$95.



PA-4975

My thanks to Glenn Jacobs for "discovering" the redesigned version of the PA-4975, and assistance on locating one in short order. Thanks also to Mike Lapinski and Morrie Goldman for their input on the preamp. I'd like to hear from anyone using a PA-4975 currently, for additional comments in an upcoming article.

TUNE IN ON STS-9

Space Shuttle Mission Nine (STS-9) will make Amateur/SWL history by carrying the first astro-ham DX-pedition into space. Astronaut Dr. Owen Garriott will carry a 2 meter FM transceiver into space to give amateurs throughout the world a chance to work Space Shuttle Mobile.

Dr. Garriott is W5LFL, and will make up part of the international crew of NASA/ESA's first Spacelab mission.

The rig Owen will use is basically a Motorola MX-340 HT with an adapter interfacing box. A tape recorder will be used for amateur radio logging purposes. The rig will put out 5 watts and will transmit in the FM mode.

Owen will not be hard to hear. Even a handheld unit with a rubber duck antenna will hear his signal as he orbits 200 miles above. Scanner buffs should brush off the old programmable and hook up the ground planes. Directional antennas will not be necessary.



In fact, they could hinder you unless you've had experience receiving satellites with them and have the antennas under computer control.

Hams desiring to give Owen a call should use 10 watts. Any synthesized 2 meter rig capable of duplex with variable splits should be adequate. You could also use the scanner for W5LFL's downlink and the 2 meter rig for the uplink.

W5LFL will transmit on 4 frequencies to terrestrial stations. These are 145.550 MHz primary and 145.250, 145.530, and 145.570 MHz secondary. He will listen for calls from amateurs on the following 20 frequencies: 144.650, .700, .725, .775, .800, .825, .850, .910, .930, .950, .970, .990. In the 145 MHz range on 145.010, .030, .050, .070, .090, .350, and .450.

As planned now, Dr. Garriott will transmit on the even minutes starting at the top of the hour and will listen for calls on the odd minutes.

For a list of orbits, dates, times, and locations for W5LFL operations one needs to monitor bulletins from American Radio Relay League Headquarters station W1AW, or check with local VHF hams for times and frequencies, or listen for W5RRR on the HF ham frequencies from the Johnson Space Center in Houston.

Finally there is the all-important QSL information. ARRL Headquarters will be the QSL manager for the operating event. Since only around 500 hams will be able to contact Owen a decision has been made to honor SWL reports that can be verified against operating times contained in both the written and voice recorded logs. Anyone ham and non ham alike, who sends a verifiable report to ARRL Headquarters will be eligible to receive a commemorative card in return. Address for your reports: STS-9 QSL Manager, ARRL Headquarters, 225 Main St., Newington, CT 06111.

Remember this information can change. (As of this writing, STS-9 liftoff has been delayed for a number of weeks due to mechanical problems. Keep informed by paying attention to the news media. Cable News Network has already featured a story about the planned amateur radio operation on the shuttle, and should feature excellent coverage -ed.) The best way to keep up to date during the mission itself is by tuning in one of the amateur radio broadcast services supplied by the ARRL or AMSAT.

--Larry Van Horn, N5FPW, RCMA Space Communications

VHF UTILITY DX

Donald L. Blevins
1637 Essextowne Circle
Baltimore, MD 21221

VHF UTILITY DX...This month's feature will be a list of Pennsylvania Game Commission low band network, as reflected in the files of the FCC on microfiche in the archives of Tom Yingling.

As few things to note before going on to out feature....1) I have moved again, so please note my new address 2) I no longer have an outside antenna, so the next few loggings will be a little more comparable to the casual listener

PENNSYLVANIA GAME COMMISSION 44.84 44.88

WQH 487	Alexandria	WQH 484	Milroy
KNBH 864	Arnot	WQH 478	Mountoursville
WQH 483	Aspers	WQR 232	Moscow
WQN 233	Auburn	WQH 470	New Castle
KGF 488	Beaverlown	WQH 485	Newport
WQN 237	Birdsboro	WQH 479	Newmanstown
KGF 494	Blue Mountain	WQR 231	Palmerton
WQR 234	Brackney	WQR 232	Philadelphia
WQH 477	Brockway	WQR 225	Port Allegheny
WQH 482	Buffalo Mills	WQN 226	Quarryville
WQJ 474	Butler	WQR 222	Ramey
KBN 472	Carsonville	WQN 223	Red Lion
KGF 492	Carsonville	KGF 501	Rainsares Lookout
KNBW 207	Carsonville	WQR 227	Roaring Branch
WQJ 468	Centerville	WQN 230	Rural Valley
WQK 491	Central City	KNAA 634	Soegertown
WQH 474	Chambersburg	WQK 486	Saltburg
WQN 240	Clinton	KNBT 582	Saylorsburg
WQR 221	Coburn	WQH 480	Shippensburg
WQK 496	Connellsville	WQK 497	Sidman
KNBH 863	Coudersport	WQK 494	Smethport
WQS 874	Coudersport	WQK 487	Spring Grove
WQR 233	East-Stroudsburg	WQN 231	Tamaqua
WQH 476	Elliottsburg	WQJ 471	Tidioute
KNAG 294	Enola	WQR 230	Towanda
WQN 227	Fphrata	WQN 236	Trumbauersville
KNAA 633	Erie	WQK 495	Uniontown
WQN 229	Fountainville	WQJ 472	Warren
KGF 800	Franklin	WQK 488	Washington
WQS 875	Frenchville	KNAA 635	Waterford
WQR 226	Galeton	WQK 493	Waynesburg
WQN 225	Germansville	WQX 532	Wellsboro
WQH 481	Gettysburg	WQX 531	Wilkes Barre
WQR 229	Gillet	WQS 876	Williamsport
WQN 242	Greensburg	WQN 231	Worthington
WQH 491	Hartstown	WQN 222	Zieglersville
WQH 489	Hollidaysburg		
WQK 489	Houston		
WQK 488	Huntington		
WQK 492	Jefferson		
WQR 223	Kersey		
WQN 238	Kutztown		
WQN 228	Lancaster		
WQN 234	Lansdale		
KGF 495	Laurel Hill		
WQN 235	Lebanon		
WQN 241	Ligonier		
WQJ 469	Marienville		
WQH 490	Mechanicsville		
KGF 499	Mehoopany		
WQK 498	Meyersdale		
WQK 498	Midland		
WQH 475	Mifflintown		
KNBH 865	Mill Hall		
WQR 235	Millersburg		
WQR 228	Millmount		



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PERFORMANCE WHEN ROOF-
MOUNTED.

STATION BREAK

WTFDA H.Q.
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Buffalo, NY 14205

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

FOR SALE - Selling as a package: VUDs May '72 - Oct. '81, missing 4/74, 11/75 5/77, 4/78, 5/78 (over 100); Tech articles by Janowiak, Cooper 12/69 - 4/72; 7 issues CATJ; RCMA 9/79 - 12/80. Best offer over \$30.00. Mike Sweeney, 38 Fairlane Drive, Wethersfield CT 06109

FOR SALE - Rockwell AIM-65 microcomputer. Full documentation and spare parts - mint condition. Peter Sawatzky, 304-195 Natchez Road, Kitchener, Ontario, CANADA N2B 1W2.

WANTED - December 1982 issue of VUD (not reprint). Please state price and condition. John Walters, R.R. 8, Acorn Drive, Vincentown NJ 08088.

WANTED - Old issues of Arts & Music, Illinois Entertainer, Popular Communications, Radio World News, Radio Times, Hi-Fi Dealer News, Pro Sound News, Stereonotes. George Mileon, 14 Border St., Lynn MA 01905.

FOR SALE - Drake R7 general coverage receiver. Has optional NB7A noise blanker, .5, 1.8, 2.3, 4, 6 kHz filters, & matching speaker. Looks and works like NEW. List price \$1800, my price \$995 shipping included. Jeff Kadet, W3CRH, Box 20, Macomb IL 61455.

FOR SALE - NEW, in the box, never opened, two (2) Alliance U-100 rotors--\$45 each. Used, Ham II/CD-44, works great--\$50. Used, BTX-11A, CADCO-modification UHF converter, \$20. Jim Pizzi, P.O. Box 1778 Lovington NM 88260 --new phone: (505) 396-3251.

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. This feature appears on a space available basis. Please note: advertisers' addresses are not included in the line or word count. WTFDA assumes no responsibility for any claims made by advertisers--our trust is implicit, as fellow DXers.

NEXT MONTH IN THE Vhf-Uhf DIGEST

The Official Publication of the
34 Worldwide TV-FM DX Association

THE CONCLUSION OF
"EXPERIMENTS WITH A
HOMEBREW FM YAGI"
(FINALLY! MAYBE WE
SHOULD CALL IT
"RETURN OF THE YAGI?")

REPORT ON THE 1983
WTFDA CONVENTION AT
DUNKIRK, NY

MEMBERS REACT TO CHANGES
IN CLUB POLICY...
DO STATION TOTALS HAVE
A PLACE IN DX REPORTS?

WTFDA CLUB SUPPLIES



THE WAIT IS OVER!!! NOW, WTFDA CLUB SUPPLIES ARE BEING PROCESSED THROUGH OUR NEW H.O. ADDRESS. SUPPORT YOUR CLUB AND ORGANIZE YOUR DX DEN AT THE SAME TIME. HERE'S WHAT IS AVAILABLE FROM WTFDA:

VHF UHF DIGEST BACK ISSUES -- AVAILABLE JANUARY 1983 TO THE PRESENT \$1.25

A FEW AVAILABLE BEFORE JANUARY, EACH \$1.00

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STATION QSL REPORT FORMS -- FOR REQUESTING QSLs (VERIFICATIONS) FROM TV STATIONS. (PAD OF 50) \$2.00

VUD BOXERS -- ATTRACTIVE CASES DESIGNED TO KEEP YOUR COPIES OF THE VHF-UHF DIGEST ORGANIZED \$2.00

3 FOR \$5.00

WTFDA CLUB T-SHIRT -- AVAILABLE IN SIZES SMALL THRU X-LARGE ORDER FROM DAVE NIEMAN, 12284 NICE RD., AKRON, NY 14001. \$7.00

UHF TRANSLATOR DX GUIDE (1979 EDITION) -- LISTING OF UHF TRANSLATOR STATIONS IN THE CONTINENTAL UNITED STATES WITH 10 OR MORE WATTS OF TRANSMITTER INPUT POWER, AND A BASIC INTRO TO TRANSLATOR DXING BY EXPERTS GLENN HAUSER AND BOB COOPER, JR. THE LIST IS NOW SOMEWHAT DATED, BUT THE DX TIPS AND INFO ARE EXCELLENT. \$2.00

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