FromTheSTAFF

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

NEW TRANSLATOR/LETV GUIDE NOW READY!!!...After months of preparation, we are very pleased to announce the availability of the new WTFDA book many of you have been waiting for: The WTFDA TRANSLATOR/LOW POWER TV LIST is now ready for immediate shipment. This booklet is the latest word on currently operating TV translators and LPTV stations on the VHF and UHF channels. The product of many months of work by TELEVISON NEWS editor Bill Pahber, it contains thousands of listings, much more detailed than previous club translator lists.

ORDER TODAY...Please keep in mind the fact that this WTFDA publication is a special club project; supplies are limited. If you want a copy of the new WTFDA TRANSLATOR/LPTV GUIDE, please order now. The price is \$6.95, and the GUIDE should be ordered from: WTFDA, P.O. Box 514, Buffalo, NY 14205-0514. Anyone interested in the low power TV boom, and all serious TV DXers, will want a copy of this guide, the only one of its kind, and as useful as industry references costing at least ten times as much!

LONGWAVE DXERS...Winter's approaching, and low frequency DXers are noticing drastically improving conditions on a daily basis now. If you are interested in DXing this fascinating part of the radio spectrum, you'll need a copy of THE COMPLETS BEACON GUIDE UPDATER, recently published and available from: Ken Stryker, 6350 N. Hoyne Avenue, Chicago, IL 60659. It's available for \$2.50 plus 50 cents for postage and handling. Ken is the Unidentified Beacons editor for the LOWDOWN, the publication of the Longwave Club of America, and gives listings for over 1200 LW beacons in his guide.

ANARC DIRECTORY AVAILABLE...Those of you who subscribe to the ANARC NEWSLETTER, please note: the second edition of the ANARC Directory is now available. Price is \$3.00 for U.S., Canada, and Mexico, and \$3.50 elsewhere. Order from: ANARC DIRECTORY, 1500 Bunbury Drive, N. Whittler, CA 90601.

A DX-PILLED FALL?...It looks that way for many club members. Word has it the interesting tropo activity carried over from September into October in wide areas of North America, and Hürricane Josephine was a factor, although not as extensively as Diana was several weeks earlier. That's not all—a fair amount of interesting E-skip is taking place, very much unexpectedly, as this is being written in late October. It just tends to prove what the veteran VHF/UHF DXers always like to point out—super DX conditions can happen almost any time of the year!

Thanks to TELEVISON NEWS editor Bill Pahber for this month's cover-



Alan Hyams P.C. Box 130 City Island Sta. Bronx, HY 10464

Robert Goodman sent in a long letter covering a number of DX issues. First of all, he tells now the DX and bearing program presented by Larry Fuss in the September and October VUDs can work in the Applesoft system, with the following modifications:

"Change line 145 from RAD to HOME (might as well start with a clear screen. I've no idea why the Atari wants radians instead of degrees).
Rename variable GR in lines 250 and 410 ("GR" kicks Apple into

graphics mode).
Change line 570 as noted in October "Out of Sync".
The line 572 addition appears superfluous here."

Robert also continues the debate over club logging rules:

"With regard to what's being fed back to WTFDm from September, first, there's a matter of lact. In the January 1978 VUD it was said that total stations received must be from sites within an equilateral triangle 50 miles on a side. That's a lot smaller area than a circle with a radius of 50 miles. (In that same VUD was reprinted Bruce Elving's standards for logging, which allowed

a 30 mile radius circle of uTHs for one log.

But there's a more fundamental question regarding ATFDA logging standards: Is DM more of a sport, a competitive game or a scientific pursuit? Or something else, are Daers going to agree on one or another of those descriptions? VCD has, albeit sporadically, columns of TV and FM DXing records, and they function practically identically; but one is called "Scoreboard", the other, "Statistics." Those titles have very different connotations. Games have scoreboards; both games and sciences have statistics. Bruce has very precise, nit-picky criteria for logging PM DX, which he'd also like other Dxers to follow; they're like the rules of a game. The current WTFOA logging rules just ask that a DXer be "reasonably certain" a station was received. It's a scientific question of fact. That was received? You can't be absolutely certain a station was in, because the improbable (say, a local hoaxer transmitting) isn't impossible. "Reasonable" is a subjective judgement requiring that all evidence be taken into account. ersonally, I'd liken Daing to a sport like fishing, which, while neither a game nor a science, has scientific and competitive elements for some. I also think we're not going to get an agreement on this question from all Diers, members or otherwise. Therefore, Whis reporting columns should have the least strict Ding standards commatible with any possible view of the hobby. That standard is what we have now, "reasonable certainty."

As to the standards for totals, I'm also satisfied (e.g. a call change isn't a new station). The 50 mile triangle is arbitrary, but what wouldn't be? (How about separate logs for liv-

ing room and bed room?)

Finally, I'm disturbed by what I read in "ANARC Undate" about ANARC having or considering rules on the internal Morkings of member clubs. Before MITDA agrees to any such rules, I suggest we consider carefully what advantages we get by being an ANARC club.

A lot of points brought up in that letter. On the issue of the 50 mile triangle, I tend to measure things a lot closer than that. I see it as a valid guideline when DXing in a moving car, but I think that even in such a case, one's location can be measured a bit more precisely.

continued on next page ...

MATLBOX continued

Martin Theil would like a clarification made as to his club standing. He is a former as well as a present club member. He rejoined the WTFDA in January.

Saul Chernos sent me Robert Grant's review of the Sony SRF-Al00: "The Sony SRF-Al00 is a portable stereo receiver with built-in speakers that can be used with an optional stereo headset. In recent weeks I have seen bone negative words on the FM band performance of this radio. First of all, the receiver is susceptible to overload in the "distant" mode. However, the overload present does not appear to notably affect normal local listening (remember, this is in Detroit, with a strong signal every 300 kHz). Selectivity is fair to good, as I have no trouble listening to CBEF1 - 103.1, which few receivers will get here without an outdoor antenna. There is no stereo/mono switch, but the receiver is not very "eager" to go into stereo mode, waiting instead until there is a signal strong enough to get a noiseless stereo signal. From an FM listening standpoint, the SRF-Al00 is beautiful; the audio noise floor is very low, response is very high and separation is very good. The primary limiting factor for hi-fi is the very small speakers- but they sound much better than those in other radios of the "portable-speaker-stereo" class. Sensitivity is not very high, but you can't stuff an NAD 4150 tuner into a stereo smaller than a cigarette carton, either."

Finally, new club member Yefim Mosenkis wrote in, asking about the basics of TV/FM DXing. I sent him a pamphlet (supplied to me by Dave Nieman) with common questions and answers about TV/FM DX. I'm now offering a copy of this pamphlet to anyone sending me an SASE. Topics covered include antennas, receivers and propagation modes. Many newer WTFDAers might find some valuable information here.

Oh, one more thing. RE: October VUD, bottom page 18. Thanks, Saul but what do you mean by "disturbing the flies"?

Till next time, 73 and good DX,













Worldwide TV-FM DX Association



ELEVISIOI

Bridgeton, NJ, 08302 without the need to gobble up the television broadcast frequencies. But the public safety organizations are still after the television

Bill Fahber, editor

336 Atlantic Street

ISCO: LICENSE ASSIGNMENT OF KBHK-TV On May 26, 1983, the FCC's Mass Media Bureau authorized the transfer of KEHK-TV's license from Field Communications to United Television Inc.. despite objections from the California Association of the Physically Handicapped (CAPH), which claimed that Field had meet public safety needs with existing not carried out its obligation to caption the spectrum. station's programming for the deaf and hearing-impaired, nor taken affirmative action to hire qualified handicapped persons. The Mass Media Bureau pointed out that the station had aired several closed and open captioned specials, network programs, and religious programs, and that TV licensees have no specific obligation to provided open or closed captioning of supplemental visual material for deaf or hearing-impaired viewers in their service area.

CAPH asked the FCC to reconsider the Mass Media Bureau's decision, contending that, since broadcasters are government contractors they are, pursuant to the Rehabilitation Act. It will be the Sheriff's Department's responrequired to hire qualified handicapped persons, but the Bureau replied that the Act did 19 would not cause interference to KSCI. not apply to commercial television stations. since they are not government contractors. The FCC upheld the Mass Media Bureau's decision.

MARSHALL, TEXAS: KMLT-TV, CHANNEL 35. In December, 1981, the then Broadcast Bureau granted Holt-Robinson of Texas's proposal to locate its main studio in Marshall and its transmitter seven miles northwest of the city. Holt-Rabinson later got approval to move its transmitter 26 miles west of Marshall, on the other side of Longview, which has a greater population than Marshall. and closer to the population center of the area. Then it got permission to move its proposed studio from Marshall to the transmitter site past Longview. You may begin to wonder who the station really intends to serve.

So did East Texas Television Network, Inc. who is building KMLG-TV in Longview, so it asked the Mass Media Bureau to reconsider its 1983. approval, arguing that Holt-Robinson had not demonstrated the unavailability of suitable studio locations within Marshall, nor had it shown that the public would benefit from moving its main studio from the community of license. The Mass Media Bureau, in turn, reversed its earlier decision, and based its reversal on a long-standing FCC policy, that it is contrary to the public interest to authorize the relocation of the main studio of a community's only broadcast service closer to a city of greater size.

LOS ANGELES COUNTY SHERIFF STILL AT IT The broadcasting industry still insists that, with present technology, existing radio frequencies allocated to public safety land mobile use could be used more efficiently

bands. Companies such as NBC, the Association of Maximum Service Service Telecasters, the National Association of Broadcasters and the Corporation for Public Television have already submitted plans to the FCC which would

But the FCC sees some merit in the Sheriff's requests. The Sheriff's needs for portable radios, alone with the factors present in the Los Angeles casin of expansive geography and diverse topography constituted sufficient basis in the FCC's eyes to initiate a proceeding that would propose the use of channel 19. There is some merit to the use of this channel: Because of the proximity of KSCI, channel 18 in San Bernardino, channel 19 could not be used for television in the Los Angeles area: also, channel 19 is already reserved for land mobile use in Indio, California, which is about 120 miles east of Los Angeles. sibility to demonstrate that use of channel

Another advantage of channel 19: The Los Angeles Police Department operates on channel 20 frequencies, and radios could tune across both frequencies, allowing both departments to communicate by radio, whereas presently they can only communicate by telephone.

OKLAHOMA TELEVISION STATIONS

Back in June, 1981, the FCC granted construction permits to Red Carpet Country Television Broadcasting Corporation (for MEQO, channel 20 in said, OK) andGreat Plains Country Television Broadcasting Corporation (for KQOL-TV, channel 45 in Lawton). Those construction permits were to expire in December. 1982, but both requested an extension. In their requests, they confessed that construction had not yet begun on the stations, but expressed the hope of acquiring used equipment from Townsend Associates. On that hope, the FCC granted the extensions to June 29.

In May, 1983, they again requested extensions. but revealed that they had rejected the Townsend offer and ordered equipment from other sources. On August 23 (1984?) the FCC cancelled their construction permits and deleted their call letters after finding that the stations were no nearer to constructing the stations thanthey were when the first extensions were granted.

CABLE CARRIAGE OF STEREO TELEVISION AND AURAL BASEBAND SERVICES

On March 29. 1984, the FCC adopted the new ruling which expanded the uses of the television aural baseband to include stereo and second-language services as well as nonbroadcast purposes. In its action, the FCC did no take any stand on the issue of cable carriage requirements of the program-related aural subcarrier of broadcast stations. In the Second Further Notice of Proposed Rule Making, adopted July 26, 1984, the FCC requested additional comments and information on the mandatory carriage issue, and on a proposal suggested by the National Association of Broadcasters and the Association of Maximum Service Telecasters with respect to

The application of multiplexing the television signal has made it feasible to transmit additional information on the television signal without affecting the quality of the main program service or interfering with other stations. Teletext (which uses the vertical blanking interval) and subcarriers on the aural baseband. The FCC has not extended must-carry protection of these services where it hasdetermined that they are not essential to the regulat program service putting its license in jeapordy. The purpose of this Second Further Notice is to explore the need for cable systems to carry program-related TV aural baseband signals, and to choose a plan for regulation that is consistent with the overall public interest. Lacking sufficient information. the FCC is at this time taking a neutral position on the issue, and inviting comments. It is also inviting comments on the proposal mentioned above by the AMST and NAB. which transmissions where they would degrade the main program's video or audio, or the video and audio of adjacent channels. Cable sysand what the estimated cost of eliminating that interference would be.

MODIFICATION OF FM AND TV LTCENSES

The FCC adopted a new ruling with respect to FM and television stations seeking to amend their respective tables of channel assignments while seeking to modify its license to specify operation on that channel that interested parties would lose important The purpose of this is to encourage licensees or permittees to upgrade their facilities and to reduce burdens on the FCC's resources.

In the FM radio context this would mean allowing an existing station to request a higher class channel to permit additional coverage. In the television context this could mean changing to a lower UHF channel. or, if possible, changing to a VHF channel.

Until now, license modifications that specify a channel change have been routinely ested in the new channel.

to prefer the lower UHF channels over the upper channels. It's not the difference of ERP required for the same signal coverage area that is the issue. Rather, in a typical community with channels 14, 20, 26 and the public to ignore any television station that starts on channel 69, whereas a station change. on channel 36 would be more accepted. But

the FCC doesn't consider a channel change for that reason an upgrading of facilities. But there are cases where an ideal transmitter site can't be used because of short-spacing. whereas a change in an assigned channel could eliminate that situation, making the ideal transmitter location accessible.

Another problem has existed with respect to channel changes. A station could have the channel assignment changed to another channel that would be short-spaced to the present channel. That means the present channel would have to be eliminated when the new channel is assigned. If a station operating on that channel proposed a change in channel assignment, thus creating a new channel open for competing applications, its existence could be at stake. But under these new rules, the station could have its channel assignment and channel of operation changed without fear of

EDEFINITION OF MINOR CHANGES IN FACILITIES Effective July 26, 1984, the FCC is defining any change in power. antenna location or height above average terrain of an FM or TV station. as a minor change. FM translators may also change primary stations at will. Since television translators and low power television stations are already free to change at will their source of programming by merely notifying the FCC, that rule would not apply. contains several points, but basically would Up to now, the FCC defined as a "major change" allow cable systems to delete enhanced audio any change in frequency, station location, or any change in power, antenna location or height, that would result in a 50% change in the service area of a television or FM statems would have to submit a certification to tion. An application for a major change would the FCC that interference is being produced. result in establishing cut-off procedures for mutually exclusive applications, a 30-day holding period following FCC public notice of acceptance and publication of local notice by the applicant, and so on.

There was some disagreement with the FCC when it originally proposed its change in definition. Basically, the opposition felt procedural rights such as the 30-day public notice period; the FCC would thus not be well informed of all relevant facts which would be raised to objecting parties; interested parties would not be provided with an adequate opportunity to protect their interests properly. For example, a minor change under the new definition could result in a loss of television service to particular areas without giving those affected a chance to object.

But elimination of the public notice period doesn't mean that there is no opportunity for granted if there were no other parties inter the public to object. Section 405 of the Communications Act provides for the filing of There is a tendency for television stations petitions of reconsideration which the FCC must act on within 90 days.

The FCC held to its original proposal that FM translators shouldn't need even a minor change proposal to change its primary station. Under the new rules, a FM translator must 32 on the air. there would be a tendency for merely get approval from the station it wishes to rebroadcast, and then notify the FCC of the PROPOSED TECHNICAL STANDARDS FOR MULTIPOINT DISTRIBUTION SERVICE

The FCC is proposing a few rules to amend its existing rules for Multipoint Distribution Service (MDS). Under consideration is the use of equivalent isotropically radiated power (EIRP) to replace its present use of transmitter power, requiring higher frequency stability, and lower out-of-band emissions. Also proposed is the use of MDS boosters.

MDS stations are normally limited to 10 watts transmitter power output, but in some cases the power is raised to 100 watts. But the ability of a station to serve a particular receiver site is more realistically determined. not by transmitter output power. but by effective radiated power (ERP) or by equivalent isotropically radiated power (EIRP). ERP is defined as the product of the antenna power input times the antenna power gain. EIRP deals with a field strength that is uniform in all directions. Since specifications for MDS antennas are normally given relative to an isotropic radiator. the FCC felt it convenient to use EIRP to replace the present TPO.

Present MDS rules require television transmissions to maintain a frequency tolerance of 0.001%, which for the high MDS frequencies comes to 21.5 kHz tolerance. Broadcast television stations are limited to 1 kHz tolerance. For both broadcast television and television transmissions via MDS, the aural carrier must be 4.5 MHz above the visual carrier, with a tolerance of 1 kHz. But now the FCC is considering the use of carrier offset frequencies to reduce the problem of co-channel interference, in the same way that it does with broadcast television. But for that system to work, there must be a 1 kHz tolerance in carrier frequency. Microband Corporation in Los Angeles is presently using a specific carrier frequency offset, and is able to maintain the required 1 kHz tolerance for it to work. The stations referred to. KFF79 and KFI79. have been able to keep a 20 Hz tolerance.

In order to facilitate adjacent channel operations the FCC is considering all emissions from MDS transmitters appearing 3 MHz above or below the band edges be attenuated to 60 dB below the peak visual output power of the transmitter. The FCC invited comments from equipment manufacturers on the cost and complexity to bring existing equipment into compliance with this proposed standard.

Another idea with respect to MDS was raised by Multipoint Communications Corporation: the idea of low power repeater stations for MDS. Some confusion resulted in the term, as some people thought that the idea of MDS translators was being suggested, but it was later clarified that boosters were meant, that would merely boost the signal on the same frequency.

The idea of MDS boosters appealed to the FCC. There are problems of obstructed receiver locations plaguing MDS licensees. Two such boosters have been authorized by the FCC in Chicago, with no evidence of

interference. But the FCC still wants more comments. and raised a few questions. What is the maximum EIRP that should be allowed for boosters? Should they be limited to no less than 5 miles from the boundary of the protected service area of the MDS station? What about boosters for MDS stations whose protected areas are defined by radio horizon rather than a standard 15 mile radius? How would boosters affect adjacent channel operations?

Over the next few months comments will be submitted to the FCC, and its next step will probably be to propose some specific rules, then await further comment before adopting those or similar rules.

REFERENCES FOR THE ABOVE RULES AND PROPOSED RULES:

The proposed rules for MDS appeared in the Federal Register, Thursday 6/21/84, pp.25486-25492. There is also another article on MMDS on that date, which I plan to discuss at a later date.

Proposed rules with regard to cable carriage of subcarrier frequencies in the aural baseband of television transmitters: Federal Register. Wednesday 8/15/1984. pp. 32619-23.

Definition of minor changes in FM and TV stations: Federal Register, Wednesday, 8/15/ 1984, pp. 32586-90.

License modifications of FM and television stations with respect to the table of channel assignments: Federal Register. Tuesday August 28. 1984, pp. 34007-11.

SPANISH-LANGUAGE TRANSLATORS AT ISSUE

It was reported last year that several Spanish-language interests, jealous over the monopoly that Spanish International Communications Corporation has over Spanish programs from Mexico. decided to dig up some dirt. And so several broadcast stations owned by Spanish International Communications Corp and Seven Hills Television Company are all under scrutiny by the FCC to see if they are under ownership or control of foreign interests.

Now six translators owned by those two companies are also added to the list. The broadcast stations were added to the list when their licenses were up for renewal. In the cases of these translators, it was a result of different factors. One thing I didn't realize myself until I read the reference from the Federal Register: a translator can change channels and get new call letters before any construction permit is assigned. (Perhaps that explains why I have no record of the Iron Mountain Translators, some of the Texas translators the Jim Pizzi noticed, and no record of any of the new translators mentioned in this report.) Many of the translators at issue were forced to change channel because of full service broadcast stations which recently went on the air. They are temporarily operating under Special Temporary Authorization (STA), with new call signs to reflect the channel on which they are now operating. They have not yet been granted a construction permit, and in fact might still have to compete with other

K39AB. Bakersfield, CA, also owned by SICC operating under Program Test Authorization (PTA), who applied for a license to oper-K30AK, Austin, Texas, owned by SICC, is formerly K42AB, now operating on channel 30 under STA, has applied for a construction permit for channel 30. W47AD, Hartford, Connecticut, formerly W61AH until local channel 61 signed on. owned by SICC, also operating on channel 47 under STA, has an application for a construction permit for channel 47. K41AI. Denver Colorado, also owned by SICC is the former experimental station KA2XEC. which operated on channel 31 until local station went on the air, is now on channel 41 under STA, and has an application for a construction permit for channel 41. K52AO, Tucson, Arizona, is the only one of the six owned by Seven Hills, is the former KAOAC, and is also operating under STA and has an application for a construction permit for channel 52.

applicants for the channels they are present-

W35AB, Philadelphia, PA, whose license is

ly using. The translators at issue are:

up for renewal, owned by SICC.

Of these translators still applying for a construction permit for the channel on which they are presently operating, K30AK, W47AD and K52AO are still mutually exclusive with a large number of applications. The application for K41AI had already been dismissed by the FCC. but SICC has appealed that decision.

COOKEVILLE, TENNESSEE: WKWR-TV, CHANNEL 28 The construction permit granted to Joseph Patrick Williams to build a television station on channel 28 in Cookeville is up for extension of time, but the FCC received a petition from Joseph Albrecht, editor and publisher of the Cookeville Herald-Citizen to revoke the construction permit, stating that Williams is the owner of the Cookeville Dispatch, a local daily newspaper, thus unqualified to hold a license for a television station in that same community, according to FCC rules. FCC granted that petition and denied the renewal of the construction permit, 35 5000 1000 FL Miami; Manuel Arques & Sonny but Williams petitioned the FCC to reconsider that decision, insisting that he does not own the Dispatch. He states that it is owned by his mother, Osia Williams, and that his only connection with the paper is that of the publisher. He also insists that circumstances beyond his control justify his request of an extension of the construction permit. The FCC is now reconsidering the case.

CITIZENS PARTY CANDIDATES WANT TO BE HEARD Sonia Johnson and Richard Walton, Citizen Party for President and Vice President, filed a complaint with the FCC, insisting that the networks include them in the Presidential and Vice Presidential debates in October. The FCC denied the complaint.

HARTFORD, CONNECTICUT: WHCT, CHANNEL 18 The FCC is about to grant Faith Center's petition for a distress sale of the station to Astroline Communications Company Limited Partnership. The proposed buyer must show itself to be fully qualified as a licensee and obtain the station's license within 60 days of the FCC's action, or the channel will be subject to competing applications for new station on that channel in contest with the

application for WHCT-TV's license renewal. APPLICATIONS FOR NEW TELEVISION STATIONS CH ERP HAAT STATE/CITY/APPLICANT 55 5000 74 AL Gulf Shores: Brahman Commu'ns 44 5000 1269 KS Salina; Odessa Communications 45 1000 877 MN Minneapolis; MGT Broadcasting 19 5000 147 NM Santa Fe; Santa Fe Broadcling 46 800 1074 CA Paradise; Venture Technolog's 61 689 553 KY Owensboro; Powers Communicins 19 5000 1973 NM Santa Fe; Clara Rose Apodaca 19 5000 1989 NM Santa Fe; Channel 19 Partnership. 49 5000 473 FL Tice; Florida Coast Communications Company 23 930 2504 MT Missoula; Garcia Communic'ns 17 1000 1615 VI Charlotte Amalie: American Paradise Television 60 5000 1388 VA Roanoke; Brahman Communicins 45 3200 700 MN Minneapolis; Jean Turner Goins

15 2438 896 FL New Smyrna Beach: Daytona Beach Community College 35 5000 1721 FL Miami: Explorado de Miami Inc. 35 1359 535 FL Miami; Julio & Silvia Fernandez

62 5000 1009 FT. Venice: Venice Broadc's Corp. 25 5000 1423 FL Toquesta; Toquesta Bc'g Corp. 49 1346 489 TX Conroe; Luis Y Nelida Castenada 49 2545 621 TX Conroe: Brokingod Bc'g Co Incl 55 1075 1538 TX Conroe: DLBS Inc. 16 1358 3527 TX Lubbock; Robert Quentin Mar-

tin/Cesar Amador 16 5000 422 TX Lubbock: TRG Broadc's Systems 35 5000 343 FL Miami; Kilgore Broadcasting 61 5000 400 KY Owensboro; Owensboro Telev'n 49 557 405 TX Conroe; Jack Clarke III

16 5000 1038 TX Lubbock; Lubbock TV 16 Bc'g 42 5000 3019 TX Odessa: Odessa Communications 54 1800 1194 TX Austin; DB Broadcasting Inc.

10 316 314 MT Helena; Haynes Communications 65 2000 779 KY Ashland; John R. Powley (not Altoona. PA. as reported last month: Altoona station is

WOPC, owned by Powley) Wright

35 5000 1788 FL Miami: Cuban-American Ltd. 35 5000 526 FL Miami; Miami 35 Corporation 35 5000 594 FL Miami; A&I Television Ltd. 35 2000 364 FL Miami; Telecentro, Inc. 35 5000 730 FL Miami; Miami Broadcasting Inc

35 5000 1810 FL Miami; Canton 35 Ltd. 35 4909 880 FL Miami: Spanish Broadc's Corp. 35 3574 579 FL Miami; Communi-Centre Bc'g Inc

35 5000 1473 FL Miami; Range Communications 35 5000 1000 FL Miami; Grace Broade'g Network 35 5000 1810 FL Miami; Minority Broade's Corp

35 5000 1015 FL Miami; First Latin Women Broadcasting, Inc. 62 5000 546 FL Venice; Santa Rosa Broadcing. 59 100 1011 CA Big Bear Lake; Josie Moore

35 5000 1174 FL Miami; Miami Latin Broadc'g 35 5000 807 FL Miami: Lamar Communications 35 4667 1200 FL Miami; Hernandez Costa &

Associates 35 5000 618 FL Miami; Adib Eden Sr. TELEVISION NEWS - page 5 35 5000 1806 FL Miami: Coral Way Broadcasting AS WIEC 62 2808 1010 FL Venice; Venice Communications 66 WZTZ-TV MA Marlborough Limited Partnership 62 5000 766 FL Venice; Channel 62 of Venice 62 5000 809 FL Venice: Todd Broadcast'g Corp 62 4810 987 FL Venice: Pauline Zlotolow & Associates 35 5000 1015 FL Miami; Rene Antonio Lopez 67 5000 812 KY Moorehead; Garcia Communic'ns 45 4681 1081 MN Minneapolis; Metro Program Network Inc. 42 5000 476 TX Odessa; Alfred H. Roever III 42 100 368 TX Odessa; Garcia Communications 20 WINT-TV TN Crossville 49 2000 322 TX Conroe; Sandacinto Telev.Corp 67 WOAC OH Canton (replace expired CP) 60 1795 1756 AL Dothan; Wireless Broadcasting 40 WAXA CONSTRUCTION PERMITS GRANTED FOR NEW STATIONS 27 WVFT ? IN Bloomington: Bloomington 63 Ltd. (conditional grant) MO St. Joseph; Public Television 47 KXLT 19. Inc. 44 565 659 VA Danville; C. Harry Anglin 65 1191 1013 OH Defiance; Community Television Associates 24 3390 1610 SC Charleston: Charleston Community Television Ltd. 4 64.6 2569 UT Cedar City: Michael G. Golden 66 WZTZ-TV MA Marlborough 23 803 608 IN Marion; Mississinewa Communi- 15 WHRO-TV VA Hampton (for changes in facications Corporation ? NE Lincoln: Native American Com- 51 WHSI munications Corp. (no record of this grant here, but must have been granted since they were assigned call letters KLNK.) 26 384 907 PR Ponce; Ana G. Mendez Educational Foundation 34 5000 1928 MS Magee; Wyatt-Clark Broadcing 64 1520 1372 NC Kannapolis; Focus Television Company (Review Board reversal of initial decision) 63 2508 1108 IN Bloomington; Bloomington 63 Ltd. (initial decision) 33 130 820 WY Cheyenne; Duhamel Broadcasting Enterprises 12 316 1993 UT Logan; John R. Powley 38 3544 900 DE Seaford; L.E.O. Broadcasting (summary decision; this and two other applicants for this were previously returned, but reconsideration apparently. So WKME-TV, the previous CP for that channel, is definitely out of the picture.) 36 5000 970 FL Capa Coral; Florida Family Broadcasting APPLICATIONS TO EXTEND CONSTRUCTION PERMIT CH C.L. STATE/CITY 59 WTVU CT New Haven

PR Ponce 45 WUSV NY Schenectady 36 KBBM-TV MO Jefferson City (to replace expired Construction Permit) CA San Francisco 2 KPRC-TV TX Houston (for MP to change antenna height) EXTENSIONS GRANTED 45 WMCF-TV AL Montgomery 40 WTWC-TV FL Tallahassee (why?) SC Anderson (replace expired CP) 60 1000 685 TX San Antonio: Brahman Commun's 8 WIIM-TV MI Iron Mountain(replace expired CP) 1/ WXIV-TV NE Greenville VA Roanoke (replace expired CP) CO Boulder 14 KTVJ 39 KMCT-TV LA West Monroe MN Rochester 62 WKAF NY Syracuse 14 KWHP ID Boise 20 WNRP PR Ponce 60 WPFP-TV AL Dothan 64 WART PR Naranjito Z8 WIEC PR Ponce lities) ME Portland CONSTRUCTION PERMITS CANCELLED 20 KEQO OK Enid 45 KQOL-TV OK Lawton APPLICATIONS DISMISSED IN Bloomington; ch. 63: Channel 63. Inc. TX Dallas; ch. 58; Metroplex Television Broadcasting (at its request) MO St. Joseph; ch. 22; at joint request, application by Metro Program Network for commercial station to be dismissed and CP will go to Public Television 19, Inc. for educational station on commercial assgt. AZ Phoenix: ch. 3; Jason Communications Inc. OH Defiance: ch. 65; Craig Broadcasting Co. SC Charleston; ch. 24; Charleston 24 Ltd.; South Jersey Radio Inc.; Charleston Television Partners. RI Block Island: ch. 69: Minority Broadcasting of Block Island L.E.O. petitioned the FCC for UT Cedar City; ch. 4; CMM Inc. TX Beaumont; ch. 21; Sight & Sound Inc. CA Watsonville; ch. ?; California Community Television Network. AL Gulf Shores: ch. 55; Brahman Communications (returned) NM Santa FE; ch. 19; Santa Fe Broadcasting. OK Oklahoma City; ch. 62; Kilgore Broadcing. OK Tulsa; ch. 53: Kilgore Broadcasting TX Fort Worth; ch. 52; Halton City Broadcing. TX Crockett; ch. 40; Hopkins Broadcasting TX El Paso: ch. 65: Swan Broadcasting DE Wilmington(to replace expired CP) NC Kannapolis; ch. 64; Community Action Communications Inc. (Review Board reversal of initial decision)

UT Salt Lake City; ch. 13; Salt Lake City

Utah Television (dismissed at its request;

still several others contending for ch. 13

14 KTVJ CO Boulder (to replace expired CP) SC Anderson(to replace expired CP) 40 WAXA 61 WDVI 14 WXTV-TV NC Greenville

62 WKAF NY Syracuse 60 WPFP-TV AL Dothan

66 WSQY-TV NC Forest City

39 KMCT-TV LA West Monroe 47 KXLT MN Rochester (still trying, Ron!) 38 KMJD-TV AR Pine Bluff

CA San Luis Obispo; ch. 33; Channel 33 Ltd. (at its request; others still contending)

FL Cape Coral; ch. 36; Cape Coral B	roadcast
Production & Management Corporat	
Coastal Telecasting Corporation;	South
Jersey Radio, Inc.	

AL Mobile: ch. 31: Way of the Cross of Mobile. Inc. (returned)

ID Caldwell; ch. 9; Caldwell Television Associates. Ltd.

LA New Orleans: ch. 14: Powell Community Television.

WI Milwaukee: ch. 58: KUSA Brewers Broadcasting Television: Powell Community Television.

WI Sheboygan; ch. 28; Retherford Publications. Inc.

FL Lake Worth; ch.67; Dan Mahoney.

APPLICATIONS TO MODIFY CONSTRUCTION PARAITS 8 n.c. 655 MI Iron Mountain: WIIM-TV 38 3700 n.c. PA Scranton; WOLF-TV 26 3717 n.c. CT New London; WLCT 66 1919 1967 NC Forest City: WSQY-TV 61 3000 957 DE Wilmington; WDVI 16 1897 458 FL Key West; WTKW 17 3981 1247 OK Bartlesville; KDOR

20 68 1744 WY Casper; KXWY-TV CONSTRUCTION PERMIT MODIFICATIONS GRANTED 48 80 -120 NM Las Cruces; KASK-TV 28 1698 792 SC Hardeeville; WTGS 26 3717 n.c. CT New London: WLCT 40 1534 2029 AZ Tucson; KPOL 30 800 860 OK Shawnee; KCVT 60 5000 1139 AL Gadsden; WTJP 14 185 ? ID Boise: KWHP 8 366 635 MI Iron Mountain; WIIM-TV (granted 9/26/85) 8 ? 655 MI Iron Mountain; WIIM-TV

(granted 9/27/84)

16 215 538 TN Jackson; WUAA 44 3258 n.c. FL Pensacola; WJTC 51 2565 912 ME Portland; WHST

27 1185 864 FL Tallahassee; WTXL 10 185 1725 WY Lander; KFWY-TV 8 n.c. 1693 AL Selma; WSLA 68 n.c. 1435 NJ Newark; WWHT 19 379 1506 OH Cincinnati; WXIX-TV

APPLICATIONS TO CHANGE EXISTING FACILITIES

15 3000 2007 CA San Diego; KPBS-TV 11 316 1713 OK Tulsa; KOED-TV

FACILITIES CHANGES GRANTED BY THE FCC CA Eureka: KEET, ch. 13; granted MP to re-

duce ERP from 61.7 kw to 28.0 kw. CA Salinas; KS3W-TV, ch. 8; granted MP to change ERP to 158 kw Max.; 2942' AAT/ 1530 AG/4027' ASL; coordinates 37003'30" /121046133"; TL around 9 miles north of Watsonville: not sure if station is presently operating as per CP or licensed figures.

TN Nashville; WTVF, ch. 5; granted MP to change from 100 kw to 100 kw max. ERP; 1390' AAT/1138' AG/2008' ASL. That's 41 feet lower that present antenna, despite HAAT figure.

IL Harrisburg; WSIL-TV, ch. 3; granted CP to 69 KBTV change ERP from 100 kw to 100 kw max.; 994' AAT/1000' AG/1600' ASL (151' higher)

CO Pueblo; KOAA-TV, ch. 5; to replace exist- 25 KXXV ing antenna with a circularly polarized

antenna; TL to Basculite Mesa, about 7.9 miles NNE of Pueblo

AK Anchorage: KTBY, ch. 4; to increase HAAT from -147' to +78': TL to 1200 L Street. Anchorage; coordinates 61°12'39"/149°54' 02".

FL Jacksonville: WJXT-TV, ch. 4: MP to change HAAT to 9601

CA Sacramento; KCRA-TV, ch. 3; applied for a license to cover changes (HAAT from 1490 to 19401): evidently the change must have taken place.

FL Tallahassee: WTXL, ch. 27; to increase ERP to 1184.71: HAAT to 864.4 kw.

FL Miami; WDZL, ch. 39; granted CP to change ERP from 5000 kw max/1920 kw hor. to 4000 ky max directional (will that increase the coverage area); same TL; 700' AAT/703' AG/ 713' ASL (20' lower than original CP); note: station had gone on the air with only 250 kw, using a borrowed transmitter from WMOD. ch. 43.

CA San Diego: KPBS-TV, ch. 15; granted MP to increase HAAT to 2007; TL to 250! east of existing tower atop Mount San Miguel; coordinates 32041'47"/116056'07".

FL Tallahassee; WTWC-TV, ch. 40; granted MP to change ERP to 3160 kw; (presently 3390 kw Max/750 kw hor.)

CALL LUTTER APPLICATIONS

CH C.L. STATE/CITY/APPLICANT IL Pontiac; Woodrow D. Nelson 53 WOKO IN Marion; Mississinewa Communica-23 WMCC tions Corporation FL Fort Lauterdale; Blair Telev'n

29 WWKI-TV IN Kokomo; B.G.S. Broadcasting Inc 64 WSWB-TV PA Scranton; Scranton Family Television Ltd.

47 WKBS-TV PA Altoona: Western Pennsylvania Christian Broadcasting

49 WJYI VA Norfolk: WUHX-TV 16 WJWT

TN Jackson; WUAA MI Flint; Flint Broadcasting Lim-66 WSMH ited Partnership

CALL LETTER APPLICATIONS: CHANGE EXISTING 64 WIII OH Cincinnati: WBTI ID Idaho Falls; KID-TV 3 KIDK 26 WQTO PR Ponce: Ana G. Mendez Educational Foundation

CALL LETTERS ASSIGNED: NEW STATIONS 16 KMHO OR La Grange: Matlock Communic'ns LA Houma: GACO Communications TX Kerrville; Hispanic American 35 KRRT

Broadcasting of Texas. Inc. AL Huntsville; WTXT XCZK ? UT Vernal; Matlock Communications ? KOTT 60 WGOT NH Merrimack; Golden Triangle TV 60 Corporation

A5 KLHK NE Lincoln; Native American Communications Corporation KS Topeka: Arapahoe Silent Majo-43 KKEC rity Inc.

68 WLCH OH Mansfield: Eagle Broadcasting IA Des Moines: Iowa Television Authority

UK Claremore; Rogers State College 53 WOKO IL Pontiac: Moodrow D. Nelson TX Vaco: KWVT-TV

10 KFOM-TV MR Thief River Falls; KONY

17 MYED NC Goldsboro: Group H Broadcasting OR Salem: Willamette Valley Bc'g CALL LETTERS ASSIGNED: CHANGE EXISTING

13 KHNL HI Nonolulu: KHNL-TV 54 JZDX AL Huntsville: WTXT 2 KGAN IA Cedar Rapids; KGAN-TV 8 WAKA AL Selma; WSLA 2 KATN AK Fairbanks: KTTU 27 KDFI-TV TX Dallas; KTWS-TV

27 WTXL-TV FL Tallahassee; WTXL

TELEVISION NEWS - page 7

CHANGES IN THE TABLE OF CHANNEL ASSIGNMENTS AR Little Rock: add 42z (despite objections by KLRT. ch. 16. that it would threaten its viability as the city's only UHF

FL Orlando; add 27z (site restriction 4.6 miles south of Orlando to avoid shortspacing to WMFR-TV. ch. 24 in Orlando and an applicant for channel 26 in Daytona Beach.)

CA Bakersfield; add 48z (site restriction 2.7 miles north of Bakersfield to avoid short-spacing to construction permit for KTIE, channel 63, Oxnard, CA.)

STATIONS ON THE AIR

OH WRGT-TV, ch. 45; seen by Bill Draeb on 9/21/84 with CBTP. 5000 kw max. HRP; 1166' AAT/1120' AG/2020' ASL; coordinates 39043128.4"/84015'17.8"; TL at west side of Gettysburg Road, about 0.65 miles SSW of intersection with Hwy 4; owned by Dayton Telecasting Inc. (Dayton, OH)

CA San Diego; KTTY, ch. 69, seen by W.R. McIntosh on 9/19/84 with CBTP. 3239 kw max/1965 kw hor ERP: 1844' AAT/2655' ASL. Height above ground as given in reference must be way off. They have 2651' but considering this antenna is on or next to MUSI-TV's tower and only a few feet nigher, 144' AG seems more likely. TL is atop San Miguel Mountain, 13 miles east of San Diego, and for some reason I can't picture the top of San Miguel Mountain being only four feet above sea level.

MI Kalamazoo: WGVK, ch. 52. was scheduled to go on the air 10/1/1984 according to Phil Boersma, and was seen by Bill Draeb on 10/4, repeating WGVC, channel 35. 44.36 kw max ERP; 414' AAT/299' AG/1279' ASL; coordinates42018'24"/85039'26"; TL near Westwood; northwest of the intersection of Drake Road and Michigan Route 43. Owned by Grand Valley State Colleges, and is a satellite of WCGV, ch. 35.

GA Toccoa: WNEG-TV, ch. 32. went on the air 9/9/1984. 647 kw max ERP; 835' AAT/575' AG/1999' ASL; coordinates 34°36'44"/83° 22'05"; TL 3.2 miles from the center of Toccoa on Hwy 17.

TX Longview; KLMG, ch. 51, went on 9/9/1984; 3097 kw max ERP; 1249' AAT/1175' AG/1695' ASL; coordinates 32015'35"/94057'02"; TL 1 mile northwest of theintersection of Hwy 42 and Hwy 1513 in New London: address: KLMB-TV, Inc.. 701 N. Access Road, Longview, TX, 75603.

CT Hartford; WTIC-TV, ch. 61; was seen on the air 9/22/84. and probably on as early as 9/17. 5000 kw max ERP/638' AAT/220'

AG/1080' ASL; coordinates 41042132"/720 28'30"; TL Birch Mountain Road off Route 94. Glastonbury, CT. Independent station. I promised one club member last month that I would start putting offsets in with the data for new station, and wouldn't you know I forgot? So here it is now: WRGT-TV, Dayton, OH: 45z KTTY, San Diego, CA: 69z WGVK, Kalamazoo, MI: *52+ WNEG-TV, Toccoa, GA: 32-KLMG, Longview, TX: 51-

WTIC-TV. Hartford, CT: 61+ One more note: Bill Draeb and Harry Hayes both received an unidentified channel 19 from the Ohio area, but no identification was seen. It's possible that WOIO in Shaker Heights near Cleveland might be on the air.

CONSOLIDATED HEARINGS

TN Cleveland; ch. 53; Silvey-Tone Television; Philip B. George; Cleveland Community Television Ltd.: Cleveland Television Ltd.: WFLI, Inc.

NY Jamestown (Convention City '84!); ch. 26; Retherford Publications. Inc.; Jamestown TV Associates. Both propose use of WWSE (FM) tower. Objections were raised by Western New York Broadcasting Association, owners of WNED-TV ch. 17 in Buffalo and by Chautaqua County Board of Cooperative Educational Services, owner of W26AA in Jamestown and other translators. They object that use of ch. 26 by a broadcast station would preclude its use by W26AA. Jamestown has a noncommercial assignment on channel 46. but W26AA can't change to channel 46 because of W46AB, Chautaqua County's hub translator, that supplies the signals for W26AA. The FCC replied that with the educational assignment Chautaqua County has the option of constructing a satellite station to cover the area now served by both translators. X Midland; ch. 18; FCC is to look into

accusations that KDCD owner Midland Telecasting and Plains Television Ltd. are engaged in license trafficking. See the 8/84 VUD for background.

FL Boca Raton; ch. 63; Palm Beach County Educators Broadcasting Inc.: Acorn TV. A competing application by Full Gospel Church of the Living God was previously returned because applicant didn't qualify

as a nonprofit educational institution. Belmont; ch. 46; Scott Neisler; Agape Communications Inc.; Jimmy Allison; Gabriel Broadcasting Company, Inc.; Peidmont Crescent Broadcasting Company; Belmont Telecasters Ltd.; Wander Broadcasting of Belmont; ACTS of Metrolina Inc.; Metro

Broadcasting Ltd. (Y Pikeville; ch. 51; Ralph W. Gabbard; Hobart C. Johnson.

ORONA. CALIFORNIA

Oak Broadcasting is putting KBSC-TV, ch. 58 up for sale, and hopes to sell its cubscriber list to Selec-TV, which uses KWHY-TV channel 22 in Los Angeles.

The WTFDA TRANSLATOR-LPTV LIST is out. At this moment I don't know what the price is going to be, but I'm sure it will be adver-

tised in this month's VUD.

Fred McCormack mentions about the difficult time he (as well as others, I'm sure) has getting information about television stations primary stations and I tried to update it as and translators. He mentions that the Denver newspaper has listings for a spanish station on channel 41, obviously a SIN translator, but has no call letters on it. Neither did I until the Federal Register printed the hearing on SICC stations listed a few pages back. Evidently there are several translators paper about the channel 27 assignment to Oroperating on a different channel with new call letters under program test authorization and I don't have any information on them. He adds. "I also have trouble with designating transmitters as translators or LPTV. I think it is clear that the FCC regards transhators as only those transmitters which repeat broadcast signals whether received via off air, terrestrial microwave, or satellite microwave, but many pre-LPTV licenses and permits have translator file numbers even though they are authorized to carry other than broadcast signals. Have they converted to LPTV by notification yet?" According to the FCC rules adopted back in 3/4/1982. translators do not convert to LPTV at all. Before LPTV was even thought of, the FCC had permitted several translators in Alaska. and some in the Appalachian mountains to operate with certain rules waived. Some could originate programming, operate at higher than normal power, or rebroadcast more than one station. During the time that LPTV was under consideration and rules were proposed, the FCC advocated the idea of translators with low power features, which also included STV operations. This is where these thousands of time. In other news, KXLT, channel 47 in applications came in, jamming the entire system. Section 74.732(e) reads, "A proposal to change the primary TV station being retransmitted or an application of a licensed translator station to include low power TV station nitely the right place, so keep looking. operation, i.e., program origination or subscription service will be subject only to a notification requirement." I take this to mean that a translator is still a translator but with the freedom to act like a LPTV upon notifying the FCC. Does anybody interpret this differently?

primary station if the one they wanted to get tions for the FCC's grant of a construction by satellite will be unavailable. Fred adds. "It seems that it may be exceedingly difficult to get information about all the primary changes on a timely basis." Not really; actually, it's downright impossible. His next paragraph speaks for itself. "T am quite certain...that...you will begin hearing from DX'ers with tieir corrections (about the new LPTV-XLTR Guide); particularly, primary stations. There certainly have been a lot in Minnesota during the last few years. The big and the transmitter and tower of MGVK, ch. 52 shuffle started when KSTP, KHSP, and WTCN juggled their network affiliations. Next was zoo. the conversion of KCMT-KHET from NBC to CBS. Prior to that, central Minnesota had only NEC

off air, and the last thing needed were NBC translators. Suddenly overnight there was demand for NBC and WDAY and WTCN suddenly had translators. But almost as soon as some stations converted to WDAY for NBC. WDAY became ABC and they now needed KTHI." The list depends on a 1982 microfiche list for much as possible, but expect there to be some changes. As I said last month, the FCC no longer requires the primary station, channel. or input channel on their data base lists.

John Combs sent an article from his local lando. FL. The Davtsna Beach Television Association, one of three mutually exclusive applicants for channel 26 in Daytona Beach. objected that channel 27 in Orlando would cause interference, but the FCC felt that the site restriction about 5 miles south of Orlando's center should suffice. By the wav. there is a channel 65 assignment in Orlando, but that was granted to Metro Broadcasting about a

Ronald Purdue bought the latest North American Radio-TV Station Guide, and was surprised to see that it had a construction permit granted for channel 45 in Minneapolis. I'm surprised also, since it was just granted within the past few months. They must really have up-to-date information when they go to press. Also, he questioned why call letters WYEO were granted to ch. 40 when he never saw references to a construction permit granted for that channel. The permit was granted to Dan Mahoney, who applied for it on 11/28/83. I am still missing some information from back in April. 1984 which I am trying to find. and I suspect that the construction permit might have been granted about that Rochester. MN, plans to go on the air in November, 1984, but the tower has not yet begun about 0.7 mile southeast of Haverhill (3 miles NE of Rochester). That's defi-

Larry G. Fuss sent in a clipping from the 9/23/84 Atlanta Journal & Constitution about WN G-TV, ch. 32 in Toccoa, GA. It's an independent station with syndicated programming sports and news. News coverage is presently limited to CNN Headline News. but WNET-TV plans to create its own local news and public About translators that have to change their affairs programming, one of the prime condipermit. The only access that area has to television is from South Carolina and North Carolina, so this will be the first Georgia station to reach northern Georgia. The sighal will also reach into Tennessee and South

> Phil Boersma adds on WGVK-TV, ch. 52 in Kalamazoo, MI, that the studios tower, and transmitter of WGVC, ch. 35, are located at Grand Valley State College in Allendale. are just north of the city limits of Kalama-

> George Mileon says that WSTG, channel 64 in Providence, RI, is back on the air finally.

MZTZ. channel 66 in Marlborough. MA, should It started regular programming in the afterbe on the air sometime this fall, apparently with music videos. The station has been getting free promotion on some of the local radio stations.

Jim Pizzi sent in an article from the 10/3/1984 Albuquerque Journal about KASK-TV, channel 48 in Las Cruces. "With the transmitter tower and the 5-meter satellite-receiving dish hoisted atop the First National Tower, all that remains is to install the transmitter itself ... " "The 80,000 watt transmitter was scheduled to be shipped Tuesday, and broadcasting should begin later this month.... "In 1980 KASK applied to the (FCC) for a low power television license, but the request became snarled in the flood of similar applications that overwhelmed the FCC. The bureaucratic mess and the realization that a low-power station would not provide the best service to the community prompted the (owners of KASK-FM) to regroup and apply for the full power license ... " The station will include recent movies, syndicated programs, local news. public affairs, and the Pacific Coast Athletic Association game of the week.

From Paul Swearingen, an article from the Humboldt Union, 8/29/1984, K30AL in Moran, Kansas, went on the air on 8/4, with a coverage area reaching as far as 35 to 40 miles from the transmitter. K30AL is a translator repeating KTWU. channel 11 in Topeka. a PBS station.

Nate Ely confirms that the channel 2 discussed in the last few months is CJBRT. not CBJRT. He got the letters mixed up. You really have to be careful with those call letters. Nate. You never catch me doing anything like that, do you? Of course not! He also confirms that I mistook WNHT, channel 21 in New Hampshire for WHNS, channel 21 in North Carolina a few months back.

He also comments that I didn't mention that KWWL's channel 80 translator. K80AW in DuBuque, Iowa, has been off the air for two vears now. I had been inconsistent in mentioning translator information. I had been holding some translator information in order to avoid hindring the sales of the KLTR-LPTV list. but sometimes I think that it wouldn't affect it at all.

Bill Draeb mentioned an unidentified channel 19 coming from the same direction as Cleveland, and about as strong as channels 43 and 61. He mentioned that Harry Haves had reported in one of his reports that he saw an unidentified channel 19. This could be WOIC. but I don't have any confirmation on that yet. He adds, "Ch. 8 in Cleveland. WI run by LTI (Lakeshore Tech. Institute) hasn't been on for quite a few weeks now. Don't know if this is permanent or not." I'm not sure what channel 8 that is; I don't have any current lists of ownership either. Is that a translator?

M.R. McIntosh saw KTTY, channel 69 on the air on the morning of 9/19/1984 with CBTP, but no station identification. Ten days later he photographed KTTY-TV, this time with another test pattern with call letters.

noon of 9/30.

Charles George sent an article from the 10/1/84 Dallas Morning News about KDFI-TV, channel 27 in Dallas, formerly KTWS. John McKay. general manager of KDFW-TV, channel 4 in Dallas, quit that position, purchased KDFI-TV from Liberty Television, and hired Jocelyn White of KDFW to be programming director. When the station, then known as KTWS, began programming on 1/26/84, it was a STV station with Preview; it later went to VEU. and last month dropped STV to go on to become an independent commercial station with syndicated programs and movies.

Bill Thompson wanted to clarify on one point. When he expressed his opinion about the success of music videos, he was referring to cable, not necessarily to broadcast television or low power television.

One comment I wanted to make about the program by Larry Fuss for computing distances, which is based on the method used by the FCC in determining distances between transmitters and reference points of vacant television channels. While the method is practical for stations no more than a few hundred miles, it can be off by several miles for E-skip distances, especially along an east-west path. It takes the miles per degree of latitude and longitude at the latitude of the midpoint between the two locations, then uses the pythagorean theorem to determine the arc distance between the two points. But the greater the east-west difference, the less the computed distance reflects a great circle route. But for stations within a few hundred miles, that east-west difference is minor.

You have heard of the movie. The Mouse that Roared, about a tiny European kingdom that declared war on the United States so that it could lose and receive foreign aid, then wound up winning the war. Then there was the Mouse on the Moon, a sequel where the same kingdom beat Russia and the United States to the moon. Well, the mouse is at it again. After 1500 years of being stomped on by all its neighbors. Luxembourg is launching a commercial DBS system with sixteen channels and broadcasting in different languages so that everybody in Europe will get to see it. Other European nations are calling it illegal because it will violate their airspace and destroy their national integrity. Some foreign officials are quite upset. In an area where each government has total control over what is broadcast from their own country, Luxembourg's DBS will be open to anybody who wants to broadcast. (Italy and Great Britain, however, do not control program content.)

Two ads I caught last month. One said that KWVT-TV in Waco, TX, will be NBC when ti comes on the air. WBMG-TV, ch. 42, Birmingham. AL. was to double its RRP to 2163 kw in time for the new television season.

I tried that antenna-tree experiment mentioned last month by John Combs. I didn't work so I cut the tree down. That's one way to increase your log totals.

EASTERN TV-DX

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

November 1984

Deadline: 1st

 W.P. Townshend:
 4500 Conn. Ave. NW, Washington DC
 20008
 #901 EDT

 Aug. 1984
 Sept. 1984
 Sept. 1984
 Sept. 1984

 16 Tr 0800 WWSG-57 PA
 3 Tr 0915 WTVZ-33 VA
 20 Tr 0800 WPHL-17 PA

 1000 WWBT-12 VA
 20 Tr 0801 WHR0-15 VA

Sept. 1984 3 Tr 0915 WYAH-27 VA

Robert Goodman; 2030 Hering Ave., Bronx NY 10461 EDT

May 1984

19 Es 1230 & 1355 WEAR-3 FL 12 Es 2025 WEDU-3 FL t 6 Es 1957 KDLH-3 MN t 13 Es 1842 WEDU-3 FL t 28 Tr 0000 WXNE-25 MA(strong)

I had some Es in at other days and times, but no I.D!s.

Rich Wertman; 315 Pine St., Lockport NY 14094 EST
Conditions up here were pretty much dead for a while. Have been getting some pre winter breezes. I think that didn't help much. However, had some fantastic openings on UHF on September 11th and 12th. I was catching trops from the SW. I took your advice on the 75 ohm and went all out. I have a friend at the local cabel company and I can get all the ½" hard line I want for nothing!!! Reason for this is they buy it in 5000' rolls and when the spool gets down to around 250' they toss it out. Hard to beleive but every one should check their local cable company for waste. Their waste is our fortune especially at \$1.75 a foot! This stuff is fantastic for UHF and VHF. Also this helped my problem with amps picking up too many locals on overload. I got slightly delayed on installation of new 7' CM dish but should have her up real soon. Also, will be running a CP-4800 Winegard amp! Channel Master markets connectors for reducing ½" hard line to F connectors around \$6.00 apiece if I'm correct.

Sept. 1984	Sept. 1984	Sept. 1984
2 Tr 0030 WCL4-61 OH	225 8 Tr 0145 W(EX-16 PA 215	11 Tr 1100 WCET-48 OH 380
0040 WUAB-43 OH	WPSX-3 PA 200	1130 WTVQ-36 KY 510
WPCH-53 PA	215 WTAJ-10 PA "	WKMR-38 KY "
CICI-3 ON	300 WPTT-22 PA "	WKHA-35 KY "
0050 WGTE-30 OH	270 0205 WKBD-50 MI 240	WKPC-15 KY 515
WBGU-57 OH		WL.KY-32 KY "
WTAP-15 WV	320 WXON-62 MI "	WDRB-41 KY "
0110 WTAJ-10 PA	200 0215 WTVS-56 MI "	wkm j-6 8 ky "
WOUB-20 OH		1200 WWVA-23 WV t
MOUC-J+J+ OH	220 (WNED xltr) 90	WLYJ-46 WV 265
0125 WKAR-23 MI	30046 NY 90	1230 WPBY-33 WV 365
0130 WXDN-20 MI		12 Tr 1100 WTJC-26 OH 320
WDH0-24 OH	270 11 Tr 1030 WOSU-34 OH 290	WCET-48 OH 380
8 Tr 0130 WNEO-45 OH		
WLIO-35 OH		WTVQ-36 KY 510
WGTE-30 OH		1200 Ft. Wayne 33,55
∵ WTO V-9 OH	200 WBTI-64 OH 380	WEYI-25 MI 280

I also saw ch.31 (WIHT) from Ann Arbor in late July broadcasting the National Weather Service. It was fighting with WUHF in Rochester which is just 40 mi. east of me. Have noticed at mine and Paul Crego's TH in Lockport a ch. 51 coming from Canada only on good tropo nights; all they show is color bars. (That ch.51 is in Maynooth, Ont.-wd). I'm looking for a 60-75' crank up free-standing tower. If anyone has a used one at a reasonable price please contact me. Also, a new member to the club, Paul Crego of Lockport has a 5' Finco dish for sale. We installed a full screen backing on it for better rejection with great results. If John Combs is still hunting, contect me!

Equipment: 12" B&W Zenith; 19" Panasonic color; Lance VM-886 log periodic VHF, 65; CM 8 bay bow tie UHF 68. HD-73 rotor.

Tom J. Yingling Jr.;	221 Pinewood Rd.,	Baltimore MD 2	21222 EDT (301)-	<u> 282-5649</u>
Sept. 1984	Sept. 1984	Sep	st. 1984	
8 Tr 0615 WHNS-21 NC	9 Tr 2030 WKPT-		Tr 0510 WVIT-30	
0645 WTVK-26 TN	10 Tr 1900 WCVW-		0513 WCBS-2	
0700 WVPT-51 VA 9 Tr 2012 WFAT-19 PA	1/ 2300 WWBT-		0515 WHP-21	
9 Tr 2012 WFAT-19 PA	14 2304 WRLH-	35 VA	0517 WPGH-53	PA

Eastern TV-DX	Yingling; continued	November 1984
Sept. 1984	Sept. 1984	Sept. 1984
10 Tr 0520 WNBC-4 NY	Hurricane Diana Trops	14 Tr 0053 WPGH-53 PA
0523 WPVI-6 PA	13 Tr 2046 WJET-24 PA	0100 WFLD-32 IL t
0525 WABC-7 NY	2050 WSEE-35 PA	0120 WKBN-27 OH
11 Tr 0035 WLFL-22 NC	2100 WCLQ-61 OH	0130 WAKR-23 OH
0038 WENY-36 NY	2153 WFMJ-21 OH	0132 WTVS-56 MI
0117 WPGH-53 PA	2200 WKEF-22 OH	15 Tr 0140 WDHO-24 OH
2000 WLIW-21 NY	2210 WYTV-33 OH	0520 WUAB-43 OH
2005 WSBK-38 MA	14 Tr 0045 WCPR-62 MI	1600 WSKG-46 NY
2010 WXTV-41 NJ	0050 WKBD-50 MI	1700 WCDC-19 MA

I took down the EU-4s amp and put it away. Now have AC-4990 on CM-4193 corner reflector on my other rotor right below my FM Probe 9. I will put the EU-4s up later on if I can find room on the roof! It's good to have a second Unfantenna for DX. You can have one pointed in one direction and another in another direction. This way I can DX 2 directions at once. I may put the EU-4s back up with antennas I got at convention later on.

Equipment: CM Quantum 1114 for VHF at 45' with Winegard BC-234. CM 4193 corner reflector at 45' with Winegard AC-4990. Finco 5' parabolic dish at 50' with Blonder Tongue CMA-Ub-75. Magnawox 8 hour vhs Model VR8400BKOl VCR. CDE AR-22L and CDE AR-33 rotors. CM-7008 tunable "Q" trap for chs.2-6 & FM. Taknika 6150 tuner.

	D. 10000 FDE
Harry J. Hayes; 9 Henry S	St., Wilkes-Barre PA 18702 EDT
July 1984	Aug. 1984 Aug. 1984
28 Es 1930 WMAB-2 MS	6 Es 1531 CKPR-2 ON 27 Tr 0250 Unid-22; Canad-
29 Es 1230 WBRZ-2 LA	CBWFT7-2 ON ian color bars.
_,	10 Es 1430 KTW-4 OK
Aug. 1984	1459 KTVI-2 MO <u>Sept. 1984</u>
6 Es 1030 CJCN-4 NF	1530 KSNC-2 KS 13 Tr 0930 WYTV-33 OH
1318 KBTX-3 TX	12 Tr 0215 WWNY-22 VT 250 0944 WSEE-35 PA
1330 WLBT-3 MS	Burlington 1000 WEAO-49 OH s/off
1340 KTBS-3 LA	WDAU off; WWNY late with WCLQ-61 OH
1500 KGAN-2 IA	Olympics 1012 WJET-24 PA
	1050 Unid-19 Akron
Fouriements BCA Colombras	25#. Winagard 2-6 yagi CM amp. Unid-67

Equipment: RCA ColorTrac 25"; Winegard 2-6 yagi, CM amp. Finco 6' dish, Winegard PA-4975; all in attic.

rinch o. dish, whiefard ra-17/7; all in access	
Roy Barstow; P.O. Box 488-T, Teaticket MA 02536 EDT (617)-548-2329
July 1984 Sept.	<u>. 1984</u>
4 IP 1715 W4LAC VA 300 17 TP 2100 WHMM=32 DC 3808 TP	SIUU MANATSS ALL SPOU
(WAVY-10) W35AB, WXT V-41	WETK-33 VT "
WHIAD VA " NY 260	CIVS-24 PC 270
(WTKR-3) WBFF-45 MD 350	2130 WNPE-16 NY 320
(WAVY-10) W35AB, WXTV-41 W44AD VA " NY 260 (WTKR-3) WBFF-45 MD 350 W6ØAL VA " WLVT-39 PA 260	WNPI-18 NY 310
しゅうじん はしし	2200 WVTB-20 VT 210
10 Tr 2100 WVTA-41 VT 160 18 Tr 0015 Unid-51; same as	(rare here)
WETK-33 VI 240 on 16th with "Johnny	WNNE-31 NH 170
2330 WLBZ-2 ME " Carson": NBC.	2300 Unid-31; Philly
WTBY→54 NY 170 21 Tr OO4O WTVH_15 PA 320	Oncor mucio midos
WXXA-23 NY 180 WHP-21 PA 340	2400 WNHT-21 NH 125
11 Tr 2030 W+1AC VA 380 WHTM-27 PA "	(sign off)
WHAD VA " WLVI-39 PA 260	WCFE-57 NY t
WXXA=23 NY 180 WHF=21 PA 340	(sign off): un-
WHRO-15 VA 440 22 Tr 2125 Tune in- 9 Tr	0045 WLBZ-2 ME 240
2330 W1 V2=33 VA " CBHFT=5=46 NS 360	0100 WLVT-39 PA 260
WRLH-35 VA 450 (nothing else but semi-	0120 WERZ-46 NY 275
15 Tr 2100 WERE-28 PA 270 locals)	
WPMT-43 PA 340	WLYH-15 PA 320
WEOC-16 MD " Aug. 1984	WHP-21 PA 340
WhRO-15 VA 440 6 Es 1900 CICI-3 ON 685	0200 WETM-18 NY 320
W59AT NY 170 KDLH-3 MN 1120 WLVT-39 PA 260 WJMN-3 MI 870	WICZ-40 NY 275
WLVI-39 PA 260 WJMN-3 MI 870	0310 WENG-12 NY "
WTKK-66 VA 410 15 Ms 0225 CKCO-2 ON 575	0330 WPCH-53 PA 490
WTVE-51 PA 285 (other unids)	WPTT-22 PA "
2130 chs.26,32 DC 380	0400 WPCB-40 PA 475
WDP B-64 DE 330 26 Es 1230 WEAR-3 FL 1200	WTAJ-10 PA t
16 Tr 2100 Unid-51 Albany NY 1300 WMAB-2 MS 1130	0500 WSTM-3 NY 300 1
area; LPTV or xltr.	0520 WIXT-9 NY " 1
•	

Rastern TV-DX	Bar	stay;	continued	. 		z 001.	November	1984
Sent. 1984	Sept.	2100	WTIC-61 CT	110 2	Sept.	0347	WCCB-18 N	2 700
9 Tr 1600 CJCB-9 NS 530 In all day. Plugs	18 Tr	2100	CKLT-9 NB	360		0400	WECT-6 NC	_640
for CFCY and CHLQ-		2200	WSTG-64 RI			04:30	WRDG-16 N	605
Que 93 Armdale NS.		Back	on; 16 hrs	:/day.		0500	WRDW-12 G	<u>835</u>
Adr. for products.	22 Tr		W63; m			0545	WKFT-40 N	
1625 WVII-7 ME 240		video	prog.//W5	9AT.		0600	(3/4 c.b.	
2000-2100 16,22,28		2130	WTHY-54 NY			0600	WNSC-30 S	
47 MD in but things		0000	WNUV-54 MI			0610	WRLK-35 S WEBA-14 S	
happening to NE.			WHMM-32 DOWN'VE-51 PA				WLFL-22 N	
2100 CBHFT-5-46 NS			WCGR-50 DC			0025	(3/4 c.b.	
10 Tr 0000 CBHT-7-52 NS		5330	W14AA(WN VI	1) #		0630	WJWJ-16 S	
(3.14kw) 335 0030 <u>CBHT-2-7</u> NS		2345	WRLH-35 VA	450			Unid-38;	
(s/off) 320		_3.7	WCPB-28 MI				SC. (Prob	
0035 CBAFT-5-31 PEI	23 Tr	Start	of super	openin			in Greenw	
510		0020	WGGT-48 NO	620			WTVD-11 N	
Parallel with 46 NS			WJPM-33 SC			0700	MACT - Fit G	
in FF with opera			WPTF-28 NO				Valdosta;	
"Slask";first PEI.			WP DE-15 SC			0722	WISG-31 G	<u>A</u> 1015
0228 <u>CHMT-7 NB</u> 445			WKFT-40 NO			0000	Albany	
3/4 cb with Moncton			WCTI-12 NO			0730	WTOG-44 F	
on it.			WGGS-16 SC			0830	Tampa-St.	
0245 CHIT-1-12 NS			WJCL-22 GA WXEX-8 VA				WUNM-19 N WEBA-14 S	
360			WPCQ-36 NO			1000	WGGT-48 N	
In good for .97 kw. Have a good picture,			WLTX-19 SC		Abov	e tw	still in	
will send in. 3/4 cb	_		Unid-20 sa				my finger	
Unid's testing on 2,5		supei	station V	NČES-2				
6.9 and 40.			.) w/reco					
• "								

After a dismal July and August, September made up for it with prime areas I needed. Sept. 10 and 23 DX have on tape and pictures. Called WTOG-44 FL and played tape to female engineer and she said definately their jingle heard. Promised to send verification. It took 15 yrs. to get 300 stations, but then again I have the big pond to my back and only 180° to work with. Hil Log at 319.

Robert S. Ross; VE3JFC, Box 4373, Stn. C. London ON N5W 5J2 EDT Sept. 1984 13 Tr 0800 WPTT-22 PA Sept. 1984 22 Tr 0245 CFT0-9 ON 22 Tr 0415 WTVG-13 OH 0301 CITY-57 ON 21 Tr 2330 WBGU-57 OH 0425 WGRZ-2 NY 0308 CFMT-47 ON 0525 WNEM-5 MI 2334 CICO-59 ON 2338 WCLQ-61 OH 0312 CHCH-11 ON 0536 WTOL-11 OH 0315 WJRT-12 MI 0540 WVIZ-25 OH 2342 WEAO-49 OH 2345 WTLW-44 OH 2348 WGTE-30 OH 0321 WP GH-53 PA 0543 WSEB-35 PA 0550 WDHO-24 OH 0333 CKVR-3 ON 0553 WKBW-7 NY 0350 CKCO-2 ON 2354 CBET-9 ON 22 Tr 0206 WPDS-59 IN 0403 CICO-12 ON 0556 WICU-12 PA Indianapolis Owen Sound?

Equipment: Toshiba 12" with rabbit ears for VHF. Flying Arrow UHF ant. Totals: 212 seen; 165 verified.

Saul Chernos; 79 Ridge Drive, Toronto ON M4T 1B6 EDT All DX seen at Burnt River ON; 80 mi. NE of Toronto.

July 1984 4 Tr 2250 CBLFT-6-12 ON 2251 CBLFT-1-7 ON 2252 CBLFT-2-13 ON	July 1984 25 Es 1652 WESH-2 FL 1905 WERZ-2 LA 26 Es 1800 WDIQ-2 AL 1804 WERZ-2 LA	July 1984 31 Es 1702 KLHY-4 KS Colby (with TP)
2255 <u>CICO-19-19</u> ON Sudbury 2302 <u>WWUP</u> -10 MI 2328 <u>CKVR-2-8</u> ON	1815 WWL-4 LA 1829 WESH-2 FL 1830 KJAC-4 TX	August 1984 16 Es 2310 KNOP-2 NE 17 Es 0040 Unid-3; ABC
Huntsville 5 Tr 0011 CBLFT-15-34 ON 9 Es 2200 WDI4-2 AL	2302 KKJ0-2 MO (ex-K(TV) 2303 KSNC-2 KS	(zero offset to CKVR) 26 Tr 10307 0N2 0N

Last two both new; "Mid Canada TV", probably from around Kapuskasing area.

16 From one column editor to another, at least there hasn't been a lot of typing for us to do this season. (I would sooner have the DX.-wd)

Tom J. Yingling: Jr. 221	Pinewood Rd. Baltimore	MD 21222 EDT
Sept. 1984	Sept. 1984	Sept. 1984
22 Tr OOLO WHAR VA	22 Tr 2358 WFMZ-69 PA	23 Tr 0131 WPDE-15 SC
OOLL WAZAC VA	23 Tr 0001 WN BC-1+ NY	0138 <u>W47AD CT</u>
0155 WLFL-22 NC	0002 WVEC-13 VA	Hartford
0517 WRDG-16 NC	0005 WITN-7 NC	0140 WEDH-24 CT
0531 WPCQ-36 NC	0010 WNCT-9 NC	0212 WCTI-12 NC
0532 WKFT-40 NC	0015 WTKR-3 VA	0627 <u>WTIC-61 CT</u>
0535 WHAD VA	0016 WXEX-8 VA	Hartford
(with KYW)	0018 WTVR-6 VA	0649 WLFL-22 NC
0536 W+1AC VA	0019 WLVI-56 MA	0651 WGGT-48 NC
(with WDVM)	0020 WSBK-38 MA	0658 <u>wtnh-8 ct</u>
0538 WCCB-18 NC	0021 WNJU-47 NJ	New Haven
0555 WHMC-23 SC	0022 WXTV-41 NJ	0705 WLVI-56 MA
Conway	Q023 W35AB PA	0706 WXNE-25 MA
0604 wxex-8 va	0024 WVIT-30 CT	0707 WSBK-38 MA
0605 WPDE-15 SC	0030 WWHT-68 NJ	0709 WNBC-4 NY
0619 WUNM-19 NC	0031 WSNL-67 NY	0710 WNEW-5 NY
Jacksonville	0035 WRAL-5 NC	0712 WABC-7 NY
0703 WLXI-61 NC	0040 WHNS-21 NC	0715 WPIX-11 NY
Greensboro	0041 W6ØAI NY	0722 WNJU-1+7 NJ
0710 WAGT-26 GA	0042 W59AT NY	0745 WEDH-24 CT
Augusta	0055 <u>W58AO MA</u>	0747 WRBV-65 NJ
0716 WGGT-48 NC	Dennis	0750 W61AC-ch.12 CT
0730 WVPT-51 VA	0108 <u>W63AS NY</u>	Hartford
1910 WRBV-65 NJ	Woodbury	0753 WEDW-49 CT
2052 WUNK-25 NC	0130 WTBY-54 NY	0828 WEDN-53 CT
•	-	0858 WCVE-23 VA

Here's an update to my last report, so just add to what I last sent or same to next month's column. I hope this way of reporting is okay to you. I hope the print is not too small to read. Maybe next year I will have a full size printer to send my reports in on. I know that using my computer for my logbook that I can log more than the other way. Anyway, I got my Winegard AC-4990 back from the shop for repairs and it really is doing good. I use it with the corner reflector. The amp got filled with rain water a few years ago and using it on the corner reflector it acts a little different than the dish does. I'm going to change the CMA-Ub to the new Winegard soon. In using the Teknika unit on trops, it's great. I would have a little more trouble in I.D.ing the channel. I was tuned on it, I used the tuner on the VCR. I would have tuned in channels on the tnumb knob and watch the TV tuner to see if I have the same channel.

what a good DX weekend of 9/22 & 23. If you didn't get good tropo, then you missed it all! I got lots of good video I.D. for my I.D. tape and 10 new stations. The Teknika 6510 is a must for TV DX! It works great with VCR's too for taping your DX. The only thing wrong about getting new stations is that they are not in the phone book or Broadcast Yearbook for address's to send wSL reports to. A few of my loggings are going to have to wait to get addresses before I mail my report in.

Bob Seybold: Dunkirk NY

Aug 1984
24 Tr - Big opening noted about 0730; Ft. Wayne U's excellent; WNDU-16, Cleve-land, Canton, Akron, Youngstown U's super. Also WLFI-18, WHIZ-18, Springfield, Columbus, Dayton U's excellent; WXIX-19, WKPT-19, WTVQ-36, WKMR-38, WSFJ-51, Scranton, Harrisburg, Philly, Washington U's; Binghamton, Elmira U's super, meny xltrs; Hershey, WPEY-33, W41AA, WPBO-42, CBLFT-15, 32, 44 etc.; WIXH-15, W27AC(WBGU), WKYT-27, Maryland U's, WCDC-19, WVIT-30, W30--(Elmira xltr). Evening- Detroit, Grand Rapids, Toledo, Flint, Lansing, Ft. Wayne 15,21, WIHT-31.
25 Tr Evening - good troos: KTSE-27, KSNF-16, KDNL-30, WLKY-32, WBAK-38, WXIX-19, WCET-48, Chicago, Dayton, Columbus U's; WTJC-26, WICD-15; S.Bend U's, WDRB-41, Indy, Muncie, Sandusky U's; Ottawa, Watertown, Norwood, Utica, Syracuse U's super; WCDC-19, Wisconsin U's 18,19,20. Translators good to east.

26 Tr Morning- super; Michigan U's, Ft. Wayne, S.Bend, WKOI-43, WHMB-40, WPDS-59, Lexington U's, Cincinnati, Muncie, Portsmouth, unid-53(educ.), WKMR-38, WCFC-38, WBAK-38, WZTV-17, WCAY-30, Dayton, Columbus, Springfield, WCRB-34,

Eastern TV-DX Seybold; continued--- November 1984 WKIE-46, WKON-52, WKMR-38; WSFJ-51, WLKY-32, WDRB-41, WKMJ-68, WTAP-15, WKPC-15, WTIW-44, WLIO-35, Crossville TN-55(I thought they changed their call and moved to ch.20. They used to be WCPT-55 but now are WINT-20. Comments??-wd) W+1AA. Evening-WGGN-52, WOUB-20, WOUC-44, WVTV-18, WVCY-30, WNDU-46.

27th-Sept. 7th - Good trops in this period; misplaced loggings.

Sept. 1984 8th Tr-A.M.-WFAT-19, WDLI-17, WKMR-38, WBAK-38, WTAP-15, WSFJ-51, WUHQ-41, WSFJ-51, WSFJ-51 CHOT-40. Columbus, Springfield, Indianapolis, Cincinnati, Ft. Wayne, WGRB-34, WKGB-53, WTVQ-36, W+1AA; evening- super ENE; CIVV-15, WHED-15, CIVM-17, WMHT-17 Watertown, Norwood, Elmira, Scranton, Binghamton U's very good; WHCT-18, WCDC-19, WUTR-20, WTXX-20, WHHT-21, WNDS-50, WXXA-23, WCNY-24, WXNE-25, WMEG-26, WSMW-27, WVER-28, WETK-33, WVNY-22, WVTA-41; Ottawa-33,45; WSBK-38, WGBX-44, WLVI-56, WQTV-68, WVIT-30, WUTR-(xltr on 63), WNNE-31.

9th Tr-A.M. WFAT-19, WCDC-19, WSBK-38, WGBX-44.

12th-16th Tr - fair. 19th P.M. Tr Chicago U's, late; S.Bend, Ft. Wayne U's, WKOI-43, WTLW-44, WBGU-57. WUHQ-41: Michigan U's good.

20th Tr A.M.- WVIT-30, WTEY-54, WSNL-67, WLYH-15, Binghamton, Elmira, Scranton U's: xltrs to east - 62,63,64,65,66,71,72.

21st Tr A.M.- WHMB-40, WPDS-59, Cincinnati U's; WNDU-16, WKJG-33, WQRF-39, WLFI-18, WOSU-34, WPTD-16, WKOI-43, WBAK-38, WCFC-38, WCIU-26, WFLD-32, WBBS-60, WLKY-32, WTLW-44, WBGU-57, WTJC-26, WFUM-28, WTPB-49, Peoria U's, KNNL-30, P.M.-WXMI-17, WUHU-41, Green Bay U's, WCMU-14, WUCM-19, WTAP-15, WDLI-17, WHIZ-18, Pittsburgh U's good; WGGN-52, WSFJ-51, S.Bend U's, WTTE-28, WOSU-34, WRGT-45, WBKZ-63(rare), WDAC-67, W67AJ, _---65(French), WBBS-60, WFEN-66, W36AB, Morgantown xltrs on 41 & 48; WLJC-65, WCMV-27, WCMW-21, WGTU-29(rare),

22nd Canada U's 34,51,55 super; CHOT-40, Elmira, Binghamton U's, WCNY-24 good.

50,56,62,66(xltr); Elmira, Scranton, Binghamton U's; WUTR-20, WPE-16, WFAT-19, Pittsburgh U's super; WLYH-15, WITF-33, WDCA-20, WBFF-45, WMPB-67, WVAH-23, WTAP-15, WNPB-24 and xltrs on 41,44,48 very good, WPEY-33, WKPT-19, WTVK-26, WCAY-30; evening trops super strong from all A.M. loggings plus these: WPTO-14 (rare), WCMU-14, WFIE-14, WBRA-15, WKPC-15, WHRO-15, WICD-15, WUSI-16, KSNF-16, WZTV-17, WAND-17, WLFI-18, WLEX-18, KTEJ-19, WRAU-19, WHNT-19, WAAY-31, WAFF-48

13th Tr(last 3 of above were seen on early A.M. of 13th). A.M. WOUB-20, WICS-20 13th Tr(last 3 of above were seen on early A.M. of 13th). A.M. WOUB-20, WICS-20 WFYI-20, WKMU-21, WHP-21, WKPI-22, WAPB-22, WCTE-22, WKZT-23, WPTY-24, KNLC-24 WEHT-25, WKAS-25, WEEK-25, WCIU-26, WKYI-27, WKSO-29, KTVP-29, WPTF-26, WTPA-27 KMTC-27, KNLC-36, WKH-31, W31AA(WOSU), WMBD-31, WWPB-31, W32AC(Muncie) WKMA-35, WRHA-35, WTVU-36, WCFC-38, WFYZ-39, WLVT-39, WHMB-40, WDRB-41 WPBO-42, WKCH-43, WHME-46, WSBN-47, WCFC-48, KYFC-50, WVFT-51, WMSY-52, WGGN-52 WNVT-53, WCVN-54, WCPT-55, WKYH-57, W58AN(WNEO), WTSF-61, WEKZ-63, WLJC-65, WFMI-64, WTKK-66, DC 20,26,32,50, WNUV-54; Philly 17,29,57; WTVE-51, WFMZ-69, WPMT-43, WVIT-30, WSNL-67, WKMJ-68(rare), WFHL-23, WEVV-44, KEKR-62, KSHB-41, WBUR-10, KATV-7 and V's from Louisville, Indy, Cincinnati, Huntington, + others. WBIR-10, KATV-7 and V's from Louisville, Indy, Cincinnati, Huntington, + others. Several deep ranging from 200-1000 mi. trops. Kentucky signals the best and most signals of local strength. One of best openings I have ever observed with close to 250 stations involved.

14th Tr A.M. Ft. Wayne U's; WN DU-16, WPTD-16, WCEX-16; Scranton, Elmira, Binghamton U's; WUTR-20, WVIT-30, Indy U's, WBAK-38, WKMR-38, WTVQ-36, W36AB, Cincinnati 19,48,64; WKON-52, WGCN-52, WSFJ-51, WKGB-53, WCWN-54, WTBY-54, Pitts-burgh U's good; WFAT-19, WHIZ-18, WUCM-19, Michigan U's 19,20,23,25,28,31,35,41,47,50,56,62; Canton 17,67; WKEF-22, WTJC-26, WOUB-20, WOUC-44, WTLW-44, WB-GU-57, WIPB-49, WKOI-43, WOSU-34, WTTE-28, WTAP-15, WCMV-27, WLKY-32, ----51, ----69, W66--(Dayton xltr), Toledo U's.

Chris Hanley: P.O. Box 15349, Winston-Salem NC 27113 My job has kept me pretty busy this summer; I've not had much time for DX. 18 From what I've heard there's been much to miss. Only two new stations to reEastern TV-DX port, both new to the airwaves: March 1984 5 GW WLXI-61 NC Greensboro (rock video)

September 1984 13 GW WRDG-16 NC Burlington (Christian programs)

I'm still hunting WUNM-19 Jacksonville. Also, WJKA-26 Wilmington was scheduled to go on in Sept. (according to Bill Fahber of VUD TV News). If it got on the air I never saw it; Hurricane Diana likely changed a few plans in that

Worldwide TV-FM DX Association

ANARG OF COLOR STEVEN P. SPRACE 39-16 48 Street Sunnyside N.Y.

STEVEN P. SPRACHMAN Sunnyside N.Y. 11104

PART IV- The ANARC Convention- Sunday, the conclusion.

Sunday, our final day. It was my day to be a lecturer. At 9am, the TV -FM DX session was scheduled, to be hosted by me. This year it was better publicized. Each day, a one page newsletter was published for the convention. It would tell little antedotes from the day before. Also, it told of the days events. On it were listed all the morning seminars and where they were being held. Because of this, we had a better turn out than last year. We had about ten people. Unfortunately, because a seminar on AM DXing was scheduled at the same time, several people who expressed an interest were unable to attend.

I had some help on the seminar. Saul Chernos and Mike Reid were there as the local TV-FM experts. They really know their stuff. Several questions were asked on propagation, and they easily answered them. Mike and Saul answered all the FM DX questions and we all spoke of our TV DX experiences. We even talked about LPTV's and the demise of WKBS-48 Philadelphia. The session went very well, and it lasted about one and a half hours.

From there I went to the World Radio TV Handbook quiz hosted by Ardy Sennett. A team from the U.S.A. went against a team from Canada headed by Ian McFarland of Radio Canada International. There were questions about languages spoken in different countries, station's addresses and station's names. Well. the U.S. team lost. Even I knew the answers they missed.

The final program was a Central American Travelogue. It was a fascinating look at a troubled region of the world. Tom Wilkins, the programs host had pictures that showed the contrasts between two countries- Costa Rica and Guatamala. The two countries greatly differ and the travelogue helped me to understand why one country is politically stable (Costa Rica) and the other is not.

After lunch was the HAP Auction and the closing cerramonies. Unfortunately, we had a plane to catch. So, after we checked out, we drove back to Buffalo. The convention had a nice turnout, about 270 people. And the hotel was very nice. ODXA did a good job and they should commended for the fine effort. Also, I'd like to say hello to everyone I met and thank you to all those who provided their time and knowledge to help WTFDA and myself out.

Next year, ANARC meets in Milwaukee. Please start making your plans to be there. You won't regret it. For more information on ANARC '85 write to ANARC '85 c/o National Radio Club, P.O. box 24, Cambridge Wi. 53523 USA.

One final thought. I did learn something very important in Toronto. Taco flavored popcorn tastes really awful.

Until next time, 73's and best of DX.

Steven & Sprachman

QSL CORNER

TV-OSL

Thomas J. Yingling, jr. 221 Pinewood Road Baltimore, MD 21222 1-301-282-5649

MD	W36AB	36	Oakland, % Maryland Public Broadcasting, WWPB-TV, Route #2, Box 31 Clear Spring, MD 21722. Card back from Chester Fabijanski, CE xltr is lkw at Dear Peak 5 miles nne of Oakland, MD. Gaines
МО	KCBJ	17	xltr is lkw at Dear Peak 5 miles nne of Oakland, MD. Gaines Columbia, 501 Bus Loop 70 East, zip 65201. Letter from Tom Koenig send 3 pages-info, coverage map & letter. Gaines
NE	TWOW	6	Omaha, 3501 Farnam St., 68131. Letter from Wayne L. Goetz, CE in 2 weeks.
WY	KOWY	5	Lander, % Wyoming Action Network, P. O. Box 170, Casper, WY 82602 Letter from George Vavra, Operations Manager in 2 weeks. Ely
TX	KIDY	6	San Angelo, 406 S. Irving, 76903. Letter from Edward S. Mateo, CE in 2 weeks.
IA	WOI	5	Ames. Card from Janis Marvin, Program Manager.(zip-50011) Reid
OH	WILW	44	Lima. Card from Roger Rhodes, Program Director.
•			1844 Baty Rd. zip 45807 in 2 weeks. Reid
IN	WISH	8	Indianapolis, 1950 N. Meridian St. 46202. Card from John (?)
			unreadable last name in 3½ weeks. Reid
ND	KFYR	5	Bismark, Box 1738, 58502. Letter from Jack Davis, CE 3wks. Reid
	KBME	3	Bismark both qsl from % PPTV, 4500 S. University Dr., Fargo,
	KWSE	4	Williston ND 58102. One card for both from Don Geiken, Dir. of
			Eng. in 1 month. Reid
SK	CKCK	2	Regina both % Box 2000, Regina, SK zip S4P 3E5. 2 letters
	CKCK2	6	Willow Bunch (1 for each channel as requested) from William
			Stevenson, Dir. of Programming in 8 days. Reid
NB	CKYB	4	Brandon, % Polo Park, Winnipeg, NB R3G OL7. Letter from L. Tisch,
			Eng. Dir. in 8 days. Reid
	CKX	5	Brandon, P. O. Box 1150. R7A 6A5. Letter from Lawrence Dubois,
			CE in 2 weeks. Reid

Reporters this time are Paul Gaines of Detroit, MI; Mike Reid of North York, Ont. Canada; & Jeff Kadet of Macomb, IL. Below is Jeff's qsl letter from WPTF-TV ch. 28, P. O. Box 1511, Raleigh, NC 27602. Next month more qsl letter copies with Jeff's Colorado translators & Roy Barstow of Teaticket, MA-Florida trops. 73's till then!

WPTF TV

411 S Saiston, Sheet Past Office Sox 1511 Raiegn Narm Calaina 27602 716,932,9311 Nat 510,016,4860

September 13, 1984

Mr. Jeffery M. Kadet P. O. Box 20 Macomb, Illinois 61455

Dear Mr. Kade

It is indeed my pleasure to confirm your DX of September 7, 1984.

MPTF-TV 28's transmitter is located in Apex, North Carolina. We have a Harris BTU-220 Transmitter with an E.R.P. of five megawatts. The antenna is an RCA slotted UHF mounted atop a 1,240 foot tower.

Congratulations on your catch.

Sincerely,

Valentamentament

Lather Regiment

LH/bpf

Since the club has no computer column yet. and the last 2 months had computer program printouts I thought that if any member has an Timex-Sinclair computer, to let me know. I have a few programs for use. Send a sase for program print out. I have MUF. distance, log book, & a few more interesting ones to play with. For Timex-Sinclair models-1000, 1500 & 2068. If you are good with computers you maybe able to make work with other brand name computer. If there is enought interest maybe there will be a new column someday. 73's again.

Tim

WESTERN TV-DX

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

November 1984

Deadline: 12- 7-84

There are only three reporters this month, but their reports include a number of very nice tropo loggings. William Eckberg's loggings from the exceptional tropo opening of last August 24-25 appear this month, and include the logging of KIFY-10 at 809 miles. All three reports indicate that some good tropo days occurred in September, a fact which escaped me here in Fargo! I haven't added a single logging since my last report.

New Mode New Mode Tent. - t Unidentified - unid S/On - + S/Off - = ID Color Bars - θ Unid Color Bars - ϕ IHTP - ϕ Misc. Test Patterns - &

William Eckberg, RR#4, Dixon, IL 61201

CDT

Equipment: Zenith b&w tube receiver, CM 1110 VHF antenna, CN 7' UHF parabolic with Winegard PA4975 preamplifier on a 30' tower.

August 1984 19 tr 0648 WCET 48 OH 308 0655 WETT 64 OH 308 0700 WKGB 53 KY 359	24 tr 2325 KGMC 34 0K 612 25 tr 0035 KARD 14 LA 651 0520 KNLC 24 MO 203 0535 KLFY 10 LA 809	30 tr 0855 <u>WKMA</u> 35 KY <u>317</u> <u>September 1984</u>
0800 <u>WKMJ</u> 68 KY <u>308</u> 22 tr 0315 <u>K25AG</u> 25 NE KGIN (Cambridge w/KELO-11) 0520 KGIN 11 NE 458	2230 WKON 52 KY 317 2305 WKLE 46 KY 361 26 tr 0200 WPTT 22 PA 491 0530 WEYI 25 MI 298	7 tr 2200 WSVN 47 VA 483 8 tr 0003 WTLW 44 0H 278 12 tr 0455 WLOS 13 NC 558 0530 WXNN 20 MI 324 0545 WCMV 27 MI 263
0610 KSNT 27 KS 375 0700 KLDH 49 KS 375 0730 KTWU 11 KS 375 0800 KTWE 26 NE 335 0900 KHNE 29 NE 464 0510 KABY 9 SD 509 0510 KTBO 14 OK 612 0515 KAKE 10 KS 498 0525 KOKH 25 OK 612 0650 KAUT 43 OK 612	27 tr 0010 WAKE 23 0H 404 045 WSEE 35 PA 481 0505 WVIZ 25 0H 393 0510 WFMJ 21 0H 450 0515 WKEN 27 0H 450 0535 KSPR 33 MO 372 0635 KSNF 31 MO 413 072 0725 KSNF 14 MO 413	0545 WOM 27 MI 263 13 tr 2155 WJPT 14 IL 13 14 tr 0250 WAKR 23 0H 370 0458 WOMH 4 0H 350 19 tr 2400 WTCT 27 IL 271 20 tr 0130 WHEQ 13 TN 451 0235 KSNF 16 MO 413 0300 KBSI 23 MO 304 21 tr 0500 WHIZ 18 0H 398 0525 WKOI 43 IN 264
2230 WSCO 14 WI 231 2250 KDSD 16 SD 509	0745 W49AG 49 WI 111 (Bloomington WHLA-31)	0525 WAEO 49 OH 404 0700 WBGU 57 OH 278

I was gone the first two weeks hence no DX. Two unusual occurrences might be of interest to other DX'er's. The reception from 0520-0900 on August 22 into Kansas and Nebraska appeared to be a duct. DX was snow free to the point that it overloaded the locals. Stations a short distance to the north or south were very weak or nonexistent, i.e. Springfield, Missouri and Sioux City, Iowa. Reception was on the backside of an east-west front that passed through a line from Hastings, Nebraska, the center of the area, through Dixon, passed through southern Michigan and into eastern New York state.

Also from about 2230 on August 24 to 0600 on August 25, it appears that DX'ers in North Dakota and Wisconsin had a chance at some long haul trops to the gulf. During this time, I received stations 500 miles plus to the northwest, 600 plus miles to the southwest, and 800 plus miles to the south. I can't ever remember trops this good to the north, south, and west at the same time!!! Nothing to the east. I was having antenna problems or I would have had more ID's.

I received two unusual loggings (in September). I aimed my antenna at the hurricane on the coast of North Carolina and logged WIOS-13. Tropo was good into Michigan, but not to the southeast. I logged WSVN on September 7 in an apparently shorted lived duct. They were out by 2300. Also, during this brief period of one hour, Cincinnati and Lexington UNE's were in good. Tropo was down otherwise.

Jacksonville, Illinois is on with limited programming and testing with color bars -no ID.

To shorten my report, I am only reporting new and 400 plus mile DX. The log is at 416 with 45 new.

William Draeb, Ellis St., Rt. #2, Kewaunee, WI 54216

 \mathtt{CDT}

A few signs of Es early in September and tropo activity had a few good days, but aside from that, not much. I haven't seen an exceptionally good tropo day in a long time. A few new stations which recently came on added to the interest.

Meacerty IV			1,004
William Dra	eb (continued)	5 tr 2040 KDNL 30 MO 432 WTVQ 36 KY 473	21 tr 1930 WNEO 45 OF 406 2000 WUTV 29 NY 445
August 1984		2040 WKLE 46 KY 473	2122 WGGN 52 OH Rare
27	Local WPNE-38	7 gw 2229 WCMW 21 MI 60	
21	never came on.	(Manistee)	
-0 . 0100			
28 tr 2100	Central Indiana	<u>WCMV</u> 27 MI <u>87</u>	WXIX 19 OH 400
	& Illinois UHF's	(Cadillac)	WCET 48 OH 400
	booming in.	(Both are WCMU	0726 WTVQ 36 KY 473
2230	Eastern OH UHF's	repeaters)	WBTI 64 OH 400
	& others booming	8 Es 2012 KMID 2 TX	(Both snow free)
	in.	KBTXt 3 TX	WLJC 65 KY 520
2230	WKYT 27 KY 473	KJACt 4 TX	(ID for over one
2230	WTVQ 36 KY 473	KATCt 3 LA	minute at 0730)
	WCET 48 OH 400		
2200	WKEF 22 OH		WKYT 27 KY 473
2300		9 Es 1545 unids ch 2 south	0749 WTJC 26 OH
	(Over WSBT)	12 tr 1900 WUTV 29 NY 445	(Over local WLRE)
2310	KDNL 30 MO 432	13 tr 0811 WFMJ 21 OH 420	0826 WPBO 42 OH 461
	(Snow free)	WKBN 27 OH 420	(WOSU ID)
30 tr 0714	KDNL 30 MO 432	19 tr 0730 KRIN 32 IA	0828 WRGT 45 OH 368
	(Snow free)	(Over local WXGZ)	(Dayton - snow
	KNLC 24 MO 432	20 tr 1900 W68AA 68 IL 300	free w/unid CB
0719	KMTC 27 MO 589	(Danville WAND-17)	23 tr 2027 WCET 48 OH 400
01.0	KOZK 21 MO 589	21 tr 1900 WPGH 53 PA 480	
0732	KSPR 33 MO 589		
			(Except ch 18)
0825	KFVSt 12 MO	unid ch 19 ese	WGRB 34 KY 508
	-01:	1925 Erie UHF's 405	2059 WKHA 35 KY 551
September 1		1930 Yngstown U's 420	24 tr 1935 WTVQ 36 KY 473
5 tr 2040	KNLC 24 MO 432	(Except ch 58)	WKLE 46 KY 473
		-	1.2

The two new CMU repeaters are no big problem here as far as dominating the channel each is on. Most of the time, the one on channel 27 is buried under WLRE-26 slop over and channel 21 is snow free during fair weather, but varies condsiderably - down to nothing when the weather is stormy - even though they are only 60 miles away across Lake Michigan. It must be their short 340 foot antenna which causes them to vary quite a bit.

Channel 45 in Dayton is about the same strength as WKEF-22. WLJC-65 was kind of snowy when I saw them, but not real weak. At the same time, Lexington U's were snow free. Their ID slide is similar (i.e. the same size and type of letters) to WBKZ-63. At 0730, their programming was parallel to WKOI-43 which I believe was getting their programming off a satellite.

Jeff Kadet, Box 20, Macomb, IL 61455 (309)-833-1809

CDT

Equipment: Zenith N1310 color, Channel Master 1110 with CP 3800 preamp, RG-11 at 50', Channel Master 7' dish with PA 4975 preamp, .500 cable at 55'

September 1984 1 tr 0545 WHNTt 19 AL 6 tr 0303 K13MN 13 IA 80	12 tr 2245 WSVNt 47 VA (O kHz - WTVP, went off @2300)	2112 WTCI 45 TN 475
(Washington KGAN-2) 7 tr 2215 WPTF 28 NC 720 2217 WKPTt 19 TN	2310 WKMBt 38 KY	2159 WBMC 42 AL 575 19 tr 0130 = WHNTt 19 AL 0208 unid ch 23 west
(Hvy 0 kHz-WRAU) 8 tr 0114 @WJHL 11 TN 525 0149 =WBBJ 7 TN 350	(S/off at 0130, then unid CE's) 0132 WMKWt 30 TN	(Xltng KWCH-12) 0453 +WLOS 13 NC 550 0454 +WBIR 10 TN 485
(S/off at 0200) 1916 K30AL 30 KS 305 (Iola KTWU-11) 9 tr 0552 K30AL 30 KS 305	(Too much KDNL) 0500 + WTVC 9 TN 475 2030 Michigan 14, 23,	0523 +WHNT 19 AL 455 0529 +WAFF 48 AL 455 0538 unid 43 sse CBTP
(Iola w/KGIN-11) 12 tr 0132 KTHV 11 AR 410 0700 KPOB 15 MO 255	28, 35, 41, 50, 56, and 62. 2242 CKCO3 42 ON 460 2234 CIII29t 29 ON 460	(S/on-0600 TV43) 0625 WDSI 61 TN 475 0640 +WMAV 18 MS 425 (CBTP then S/on)
(Only second time seen) 1940 WAFF 48 AL 455 1948 WDSIt 61 TN	14 tr 0031 unid 57 e mx vid 0303 @WAKR 23 OH 470 (Brfly snow free)	0657 +WKSO 29 KY 400 0725 WVEU 69 GA 575 0733 WTCI 45 TN 475
1952 <u>WATL</u> 36 GA <u>575</u> 2003 <u>WTCI</u> 45 TN 475 2009 <u>WGNX</u> 46 GA <u>575</u>	0329 WDLI 17 OH 480 0425 +WKEN 27 OH 510 0431 &WYTV 33 OH 510	0746 +WCTE 22 TN 400 (CBTP then S/on) 0755 WATL 36 GA 575
2015 WCLPt 18 GA 2202 WKPI 22 KY 475	(Round TP w/ID) 0455 WUAB 43 OH 460	0802 WGNX 46 GA 575 0858 WCLP 18 GA <u>510</u>

Jeff Kadet (continued)	20 tr 0620 W47AB 47 OH 415	26 tr 2100 WTVK 26 TN 475
	(Mansfield WOSU-34)	2220 WKPT 19 TN 515
19 tr 2140 KLRT 16 AR 410	0655 &WOUC 44 OH 475	
		(Ad under WRAU)
	(Round TP w/ID)	
2233 WMAV 18 MS 425	0828 WRGTt 45 OH test	(S/off u / WRAU)
20 tr 0031 WKCHt 43 TN	21 tr 0000 Clarinda IA 225	WMSYt 52 VA
0200 WMKW 30 TN 375	(56,58,60,64,66)	
(Ad under KDNL)	0427 &WUAB 43 OH 460	2300 W39AB 39 TN 510
0224 WBMGt 42 AL	0430 +WVIZ 25 OH 475	(Greenville WKPT-19)
0230 =unid ch 21 sse	0453 &WAKR 23 OH 470	27 tr 0141 =WBIR 10 TN 485
0258 @WAKR 23 OH 470		
	Also Detroit 20,	0457 <u>+WKBT</u> 8 WI <u>235</u>
0405 W32AC 32 IN 270	50,56, & 62. 400	(NSP WQAD briefly
(Muncie PTL)	0517 +WUTV 29 NY 620	off air. This is
0419 +WDTN 2 OH 340	0537 CKCO42 42 ON 460	1 station that I
0424 +WTVN 6 OH 400		
	0600 CIII29 29 ON 460	thought I would
0536 +WPBO 42 OH 420	0631 WNEO 45 OH 490	never get.)
(unid CB TP then	25 tr 1900 WRGT 45 OH 340	 0 ,
S/on. // WOSU)	26 tr 1940 WICI 45 TN 475	October 1984
0603 WSFJ 51 OH 425		
0003 Mara 51 Un 425	1945 WAFF 48 AL 455	1 gw 2000 <u>WIUM</u> 22 IL <u>2</u>

Virginia, North Carolina, and New York are new tropo states. WPTF-28 had a pretty decent signal for about five minutes, faded out, then reappeared about nine minutes later for about a minute. K13MN is my first VHF translator. It was heard on the only morning WHO-13 has ever been noted off the air. Washington, Iowa must be a terrible reception area. WHO-13 and KGAN-2 are usually pests here in Macomb. K13MN is about 80 miles closer to both of them, and they translate KGAN onto channel 13. Try to figure that out.

Thanks to Fred and Bill Fahber for helping with translator ID's. Bill also explained why K65BY in Waterloo, Iowa is seen in Madison, Wisconsin and not here, an equal distance away. Their tranmitter is southwest of Waterloo and they are directional to the northeast. I have never even seen traces of them.

WKSO-29 on the 19th is the first time I have ever seen a Kentucky ETV station show local letters. They do give vocal ID's though. W39AB must have a heck of a transmitter sight. What's their erp? They're putting out a better signal to the west than WKYH-57. which hasn't been seen yet. The signal extractor is cut for ch 39 - maybe that helped.

The opening to Clarinda on the 21st helped me figure out what that KCCI-8 on channel 61 was last month. It was not K61AG, Unionville, Missouri which is listed in the Translator Guide, but rather K60AK (KETV- 7). (Unionville and Clarinda are practically the same heading from Macomb).

For some reason, when KETV signed-off, the translator 'grabbed' the next channel up, KCCI-8, and put it on channel 61. It just seems to grab the video, not the audio. In other words, when KETV-7 was on the air, there was no channel 61 evident, but when they turned their carrier off, the channel 61 appeared. My guess is that if there was a strong channel 7 input after KETV went off, the translator would have stayed on channel 60. KCCI also had heavy CCI this time, probably from KBGT. Since my local channel 8, WQAD, is NSP, it was interesting to observe this 'channel 8 window' from another area. Just to confirm this, I wrote to the Unionville City Clerk and got back a reply from Utility Consultants Inc. which said "These two relays (channels 59 and 61) are not still on the air. They have been off the air at least 6 to 8 years."

I also got another 'mystery translator' this month. This time it was KWCH-12 (video and audio) on channel 23 with the dish pointed due west. It makes no sense that they'd have a translator in that direction, about 175 miles north of Wichita. My guess is that it is a translator in southeastern Nebraska which is the culprit. Does KUON have a translator there? Any other ideas?

WILM-22 began broadcasting on October 1. They are parallel to WJPT-14 and give dual ID's. The initial schedule is 1900-2230 Monday-Friday and 0800-1300 Saturdays. The CM High-Q variable trap pretty much cleans them off everything except channels 21 and 23, unless the dish is pointed right at them.

Total now at 465 stations. This does not include seven unid 'translators' from last

month and one from this month which are being put on hold. 73.

(Jeff, I believe your unid channel 23 seen translating KWCH-12 on the 19th was K23AA, Beatrice. Nebraska; a translator of KUON-12. Thanks for clearing up the mystery of the possible Unionville translator reception. It is nice to know that they are off and to get them removed from the translator list. It seems to me that K60AK was not properly shutting down. It is hard to imagine that an adjacent channel input would be strong enough to fool the translator input circuitry into thinking carrier was present. I have seen a number of Minnesota translators running with "wide open" inputs during the night even when no carriers were present - their presence only made noticeable by noise on the channel. Also, I doubt that K60AK moves to channel 61. The fact that it doesn't is borne out by your not hearing audio. What you are seeing is the bandpass of the input circuitry which is wide enough to pass the lower part of a strong channel 8 signal. fm)



FM STATISTICS

FM SCOREBOARD

NOVEMBER 1984

PANK MANAK	NAME		LOC	ATION	TOTAL	88-98	ES	ΧS	ALL	JSA	54	XX	PO	TPU	YB	AS OF:
				SORT BY T	OTAL											
1	ANDY	BOLIN	IL :	CHARLESTON	2059	331	799	183	286	45+	7	5	3	51	ξi	89/84/81
2	DANNY	BUNTIN	DK :	STILLWATER	1554	235	898	3	8	48+	5	9	5	65	74	09/62/83
3	BRUCE	ELVING	#N	DULLUTH	1495	213	1231	8	7	44+	3	1	9	49	48	97/26/84
4	JOHN	EBELING	MN.	BLOOMINGTON	1428	226	565	39	79	47+	4	5	Ð	57	52	01/03/84
5	PAT	DYER	Tχ	SAN ANTONIO	1421	181	1156	23		41+	3	5	3	54	70	11/15/80
6	HIKE	DALTON	FL	CLEARWATER	1283	284	692	8	8	42+	3	12	12	7€	72	85/91/93
7	RALPH	STROBEL	IN	MUNCIE	1230	325	223	43	4	⊧ 38÷	3	1	8	43	72	89/25/84
8	JIM	PIZZI	NM	LOVINGTON	1223	179	983	17	9	38	5	15	3	61	81	26/2 2/84
9	FRED	NGRDQUIST	NY	CLAY	:209	195	584	28	57	39+	5	€	2	47	59	87/84/84
18	MIKE	BUGA.	CT	ENFIELD	1197	158	629	7	21	37+	3	8	1	42	74	12/95/83
11	FRED	MCCORMACK	NED	DES LACS	1898	148	881	25	87	44+	5	4	3	55	65	9 6/28/84
12	PETER	SAMATIKY	DA:	GUELPH	1988	167	500	112	6	38+	7	ş	1	47	71	12/22/82
13	TIM	MCVEY		BOLIVAR	1975	151	392	1	1	42	5	11	:	59	77	07/01/83
14	JOSEPH			S. PLAINFIELD	1862	218	589	2	9	37+	5		3	46	68	96/22/84
15	BOB	SEYBOLD		DUNKIRK	1911	149	510	8	ě	48	6	2	9	48	58	98/98/82
16	DAVID	NIEMAN		AKRON	981	248	243	33	19	41+	7	0	2	51	59	08/23/84
17	FRED	MCCORMACK		FARED	358	196	565	3	48	47+	5	5	9	54	74	8 £/28/84
18	RON	LEBLANC		MARRERO	543	129	452	Š	ē	39+	3	5	6	54	71	11/29/77
19	HANK	HOLBROOK		CHEVY CHASE *	814	202	216	16	8	35+	5		3	44	59	84/26/84
29	ROGER	WINSOR		HOBORT	867	160	211	ě	ē	32	1	9	3	36	68	02/38/80
21	SALL	CHERNOS		BURNT RIVER	758	114	414	48	78	37+	7	e	2	45	77	24/16/63
55	JOHN	JEFFERSON	-	PLEASANTON	765	158	417	129	8	24	À	4	8		57	06/19/84
23	VERNON	EATON		BENTON	724	148	173	1	3	42	- 5	a	2		77	38/32/81
24 24	R.E.	LYDNS		BELLEAIRE BLUFFS	784	268	420	ž	ø		ā	ě	a	8	75	88/81/78
	DAVE	BRUNFTELD		MINCIE	658	141	43	1	a	28	•	9	a	29	78	11/30/81
ක 26		STEINBERBER		HUDSON	648	132	286	12	6	35+	4	8	ā	48	58	89/22/84
27	DANIEL	DETTING		R900MGLL	638	144	216	4	3	32+	5	ě	ě	38	77	11/02/83
28	10HM	EBELING		PROSIT	689	111	319	2	5	41+	7	ē	9		75	01/03/84
29	JEFF	KADET		MACOME	689	114	55	4	e	32+	3	ě	9		83	89/28/83
39	JOSEPH	SMITH		JOHNSON CITY	685	88	165	ě	8	34+	2	a	-		71	84/28/84
31	KEN	SIMON		LAKE MORTH	528	145	429	9	8	34+	2	2	a		66	29/18/83
	DOUG	EVERITY		ENID	512	80	299	:6	ā	32+	. 4	6			74	93/17/79
32				SPRINGFIELD	485	56	256	.0	9	36	4	8	_		52	87/25/84
33	ALAN	MICHALEK AYERS		MURFREESBORD	448	73	18	1	ě	27	- 1	1	9		81	02/12/82
34	JIM			ST. CLAIRSVILLE	437	58	70	1	ě	27+	2	ė	-	_	77	11/25/78
35	ROBERT	SOMINSKI			428	89	81	ė		32+	3	ă	ė		78	8 6/29/64
36	PAT .	DURKIN		MEST ALLIS	367	39	112	9		48+	4	1			88	99/23/8 2
37	DAVID	ODELL VINC THE		LITTLE ROCK ROLTIMORE +	357 354	54	131	1	9	707	9	ė				94/98/84
38	THOMAS	YINGLING		DIRE : \$1 KD (KL		34 46	57	ė	8	29	4	1	_	-	74	98/96/77
39	TED	FLEISCHAKER		LOUSIVILLE	349 329	*6 51	97	2	4	31	1	1	•		81	98/29/84
49	PAT	DURKIN		WOODBURY	315	95 21	32	9	2	24	1	1	-		75	88/16/84
41	MIKE	HOGAN		BURNIAM	293 293	113	3< 86	2	ď	31+	3	-	-		76	16/29/60
42	PAUL	TRASKA		BUFFALO BOYCER		53	:5	8	9	15+	1	2			74	38/24/79
43 44	ERIC BOB	Fader Schweitzer		BAYSIDE E. BRUNSHICK	257 245	33 75	7	9	ā	11+	à	ě	_			88/18/64
	PALL	MOUNT		TEANEDK	216	28	28	8	a	214	1	è				84/82/84
45			-		204	43	19	9	8	14		ē				82/81/83
46	ROBERT	ROSS		LONDON	188	73 3	95		 A	28+	ě	_			-	86/38/84
47	RONALD	PURDUE		BYRON		17	3			7	1			_		16/16/83
48	FRANK	WHEELER		ERIE	148	-	_	_	8		-					
49		H-EPBURN		NIAGARA FALLS	144	51	35	8		18+	i	-				88/22/84
50	GUS	MANCUSO		CHEVERLY	128	16	5			9+	8					
51	BOB	SCHMEITZER	_	OLD BRIDGE	125	33	e	9	6	9+	0					
52	WILLIA	M HEPBURN	NT	CORAL HARBOUR	56	5	55	•	6	5	8		•	13	84	88/18/8 ₉

*=VERIFIED

COLUMN DEFINITIONS are as follows: Total=Total number of FM stations logged. (Frec. changes count as a station, call letter changes DO NOT count. Also count a station only once regardless if logged by different changes no NOT count. Also count a station only once regardless if logged by different changes no NOT count. Also count a station only once regardless if logged by different changes no NOT. Selected to Selected the NOT countries and the '+' = Washington, DC. ON-Number of Canadian provinces logged. MX=Number of 'exican states logged. FD=Number of foreign countries, but not Canada on Mexico. TPU='total number of political units'=sum of USA CN MX and FD. YB=The year you began DXing

FM STATISTICS

STATES STATS

	USA					_										
STATE	# -DXER	_	STATE	# -DXER	# -DXER	STATE	# -DXES	# -	DXER	STATE	# -DXER	# -DXER	STATE	#	-DXER	# -DXER
AL.	54-TMc	46-JEb	GA .	6 8 -JPi	52-0Bu	MD	45-6Ma	42-	DGe	NH	33-JJe2	31-94c	SD	26	-F#c	28-Mc2
A¥(11-JJe3	8-None	HI	0-NONE	8-NONE	1967	89-RSt2	69	-AMi	NY	156-FNo	132~JSm	TN	93	-JAy	82-7MC
AZ	29-F4c	27-JJp2	ID	22-08u	13-RSa	ĦΙ	139-FNe	115-	-RSt	NC	66-BE12	63-DBu	TX	211	-:RSa	143-FMc
AR	65-D0d	61-VEa	IL		115-BE12	#N	128-JEb	103	BE12	100	23-FMc	24-FMc2	UT	19	-DĐu	17-RSa
CA	258-JJe2			146-RSt	112- DB r	MS	64-TMC	36-	FNo	OH.	183-RSt	177-F#e	V?	16	-RSt2	11- ∦B u
CD		44-THC	IA	96-JEb	69-BE12	MT	25-JPi	15	JJe2	OK	82-DBu	48-FNc	VA.	45	5-DBu	41-JEb
20	53-JJe2	44-THc	KS	66-08u	44-FNo	ΝE	41-JJe2	24	-JEb	OR	30-JPi	18-FMc	₩A	26	-JJe2	30-FMc2
CT	43-MBu	39-AMi	KY	68-RSt	37-JPi	NV	15-FFc	14	-DBu	PA	128-DNi	181-JFe	WV	33	-File	29-R5t
DE	11-Side	18-00e	LA	53-RSa	45-BE12	NH:	22-RSt2	12	AH1	RI	11-RSt2	8-≓Bu	¥Ι	123	3-BE12	116-JEb
FL	122-DBu	84-FNo	ΝE	39-RSt2	10-JEb	N.T	68-JFe	55	-RSc	sc	38-DBu	35-JEb	₩Y	15	-JJe2	13-TMc
-													DC	13	5-5Ne	13-DNi
	CANAL	A			_		FORE	GN	Ī	T						
290V	# -DXER		PROV	# -DXER	# -DXER	COUNTR	y # −0	XER	# -DXE	R	KEY T	STATS DXE	ER INIT	TALS	/NWE-	LOCATION
						 					AMí	Alan Micha	al e it	MA S	oringf	ield
AB	19-JJe2	15-JPi	NS	8-9Ch	6-JP1	CUBA	1	-KSi	1-1	Fe	BE12	Bruce Elvi	ing	MN I	uluth	
BC	17-JJe2	7-JEb2	ON	78-DNi	68-JEb2	BERMIS	DA 2	-FNo	2-5	Mi	DBr-	Dave Brust	field	IN F	funcie	
ЖB	15-FMc	1 0 Wie 2	PE	2-JFe	1-We2	SLATE	MALA !	-KSi	1-3	Pi	DBu	Danny Bunt	tin	OK S	tillma	ter
NB	3-FMe	3-95t2	PQ	19-FNo	18-RSt2	JAMAI	CA 3	-JP1	1-1	Mc	DNi	David Nies	an	NY F	ikron	
NF	9-FNo	8-DNi	SK	8-FMc	7-DNi	PLIERT	O RICO I	-DNi	1-3	Fe	DOd -	David O'De	eli	AR L	ittle	Rock
						NAT	1	We	9-1	OE	DGe	Daniel Det	tting	PA !	Procesal	1
	MEXIC	:0	-								FNc	Free McCon	rmack	ND I	es Lac	:5
STATE	# -DXER	# -DXER	STATE	# -DXE	R # -DXE	R STA	TE # -1	XER	# -DX	ER	FMc2	Fred McCon	rmack	KD F	argo	
			l —			-					FMe	Frank Men	rill	Œ.	oledo	
A G U	1-JPi	0-NONE	JAL	12-TM:	9-VEa	5	IN 2	Je2	8-NO	Æ	FNo	Fred Nords	cu:st	NY (lay.	
BCN	16-FMc2	9-JPi1	HEX	1-JPi	9-NON	E S	ED 5-	Mc	8-43	NE	6Ma	Bus Hancus	50	*D (never.	.y
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CHI	6-JPi	6-FMc	MOR	3-JP	1-VEa	.] 7	AB 2-	Me	2-,79	i	JEb	John Ebel:	ing	WN 3	loomir	gton
CDA	6-JPi1	2-JEb	NL.	1-JP:	8 NON	E 7	AM 2-	ΙΕ b	1-JP	i1	JEb2	John Ebel:	ing	N I	rosit	
DF	21-TMc	21-JPi	DAX	1-JP:				Рi	5-TM		JFe	Joseph Fei	ia	NJ S	.Plair	field
GTO	9-JPi	2-TMc	I pug	6-JP:	4-TMc	: 1 Y	/UC 2-	Ρi	1-JA	y	JJe2	John Jeffi	erson	CA	leasar	ton :
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Personal Best FM DX Records by Patrick Durkin are as follows:

affe2 War Hepburn

NT Coral Harbour

From West Allis, WI - most distant Es WWWL-93.9 FL Miami Beach 1272 mi. Tr WAMU-88.5 DC Washington 640 mi. No MS or Au logged.

From Woodbury, MN - most distant
Es WINS-94.9 FL Miami Beach 1514 mi.
Tr WSTO-96.1 KY Owensboro 587 mi.

Tr WSTG-96.1 KY Owensboro 587 mi. MS WYYD-96.1 NC Raleigh 991 mi.

Send in your "Personal Best" FM DX loggings for each propagation mode, and I'll include them here in this column... 73 Fred.



Bruce F. Elving, Pn.D., Editor 4515 Avenue "E" Kearney NE 68847-2610

New FM Stations & FM Translators

AK Delta Junction 93.5 3000 h.v: 300' AK Kodiak K272BW 102.3 (KGTL 103.5 Homer, KGTL listed as having an SCA of unknown format) AK Nenana K216AN *91.1 (KUAC 104.7 Fairbanks) AK Seward 103.1 3000 h,v; -1490' AZ Camp Verde K272BV 102.3 (KDKB 93.3 Mesa-Phoenix (dual-city ID)) CV is NE Bumblebee

K296CT 107.1 (KQYT 95.5 Phoenix) AZ Dinnehotso (36-21-15; 109-49-45) K206AH *89.1 (KTOB 89.7 Ramsh N.M., mono; KTDB not deleted) AZ Red Rock (36-27-40: 109-05-44) K210AD *89.9 (KTDB translator)

AR Marian KETH 107.1 3000 h.v: 300' (sonville AR) AR West Memphis K221BS 92.1 (KEZ0 100.3 Jack-/ CA Gescuet K206AE *89.1 (KSOR 90.1 Ashland OR) CA Desert Center KORS 102.3 58 h.v.: 1965 CO Avon (between Vail and Eagle) 103.1 3000h,v:-235' [Eagle CO] CO Hayden 95.9 630 h v: 600' CO Vail and West Vail K237BL 95.3 (KGMJ 101.5/ FL Fernandina Beach *91.7 3000 h,v; 290', g Baptist FL Fort Myers W205AD *88.9 (WWFR 91.7 Okeechobee FL Orlando W203AC *88.5 (WWFR)

FL Juniter W265AF 100.9 (WTMI 93.1 Miami) FI Palm Beach W269AM 101.7 (WTM): see "deletions") FL Santa Rosa Beach (just E. Destin) 102.3 3000 h.v. 300' Ft Vero Reach W232AB 94.3 (WTMI xitt.)

GA Alma 95.9 3000 h,v; 300' [*90.5 Columbus GA) GA Baconton, Sylvester, Albany W206AA *89.1 (WFRC) GA Homerville, Quitman, Valdosta W202AG *88.3 GA Waycross *91.5 80000 h,v; 920' GA Public TV ID Caldwell KCID-FM 107.1 \$, k, 3000 h,v; 300' on air! ID Chubbuck 98.3 150 h.v: 1350' Stations 11 Juliet WiDLIG *91.9 50000 h.v: 500' \$. o. Family / IA Brooklyn 99.3 3000 h,v; 300'

KY Wickliffe 95.9 3000 h,v; 300', causing KHLS Blytheville AR to finally move from 96.1 to 96.3 [Columbia] MS Woodville 95.9 3000 h,v; 300'

MO Jefferson City K272BR 1023 (KFMZ 98.3 / MO Piedmont 104.9 3000 h,v; 300' MT Missoula 102.5 25000 h,v; 210'

NE Superior K269CU 107.1 (KEZH 101.5 Hastings NE) NM Adobe Community (36-41-49; 108-10-46) K215AS *90.9 KTDB 89.7 Ramah NM translator NM Caballo K240BE 95.9 (KMLW 97.7 Belen NM)

NM Ferminaton K276CI *103.1 (KTDB) NM Gallup K269CO *101,7 (KTDB) NM Grants K272BU *1023 (KTDB) (KTDB) NM Pine Hill (34-53-31; 108-25-00) K265BW *100.9 / NM Shiprock, Cudel (36-48-40; 108-40-49) K220AX ' NC Robbinsville WMQI 95.9 3000 h,v; 300' OH Wooster W213AC *90.5 (WOSU-FM 89.7 Columbus)

OK Tulsa K232BP 94.3 (KZBS 98.9 Oklahoma City) OR Brookings K216AK *91.1 (KSOR 90.1 Ashland) OR La Pine K206AF *89.1, replaces K220AE Chemuit 91.9-KSOR 90.1 Ashland OR translator)

OR Merrill (Malin and Tulelake CA) K240- *88 7(KSOR) PA Bloomsburg *91.1 1000 (h);-73' B. Univ. of PA PA Clarion WMQP 92.7 3000 h,v; 300' PA Lovalsock (NE of Williamsport) W224AI 92.7

(WJKR 103.9 Muncy PA) [Lewistown PA xltr.) MA Mifflintown W269AL 101.7 (WMRF-FM 95.9/ SC Florence W221AJ 92.1 (WPGO 106.3 Shallotte NC) SC Johnston WTQY 92.7 2500 h.v; 330' SC Kingstree W205AC *88.9 (WMHK 89.7 Columbia) TX Midland K232BG 94.3 primary station unknown TX Texarkana K292CQ 106.3 (KQZY 105.3 Dallas) TX N Odessa, S. Odessa K240AY 95.9 (pri. unknown) TX San Angelo 107.5 100000 h,v; 425' [Ramah NM] TX San Saba 96.7 3000 h.v; 300' [*91.1 KTDR /

UT Aneth, Red Mesa (37-11-43; 109-09-18) K216AM/

UT St. George K285CD 104.9 (KILA 95.5 / WA Aberdeen K296 CV 107.1 (KPDQ-Fin

93.7 Portland OR translator) [92.70mak) AR Fayetteville p 82 KUAF *88.9 \$missing WA Bridgepart K252BV 98.3 (KOMW-FM / CA mcCloud K213AE µ 83 list as 90.5. not ViA Othello K221BU 92.1 (KGDN 95.9Ephrata) 90.3 WA Royal City K221BT 92.1 (" " WV Kingwood 96.7 305 h.v; 800'-initial (mono. decision, subject to reversal

PR Roosevelt Roads AFCN *91.1 1000 rk, / CT Middletown WIHS *104.9 p. 138, Could alica?

CA Tahoe City K265AL license renewed by FCC, which tends to refute earlier report this translator is deleted. Most likely, it is off the air, with KHTX holding the license to decide what to do with it ultimately. I will list it as deleted until I hear differently.

Deletions

AR Texarkana K292BZ 106.3 (although listed as having its license renewed)-assumed to be deleted and replaced by K292CQ 106.3 Towarkana TX (see New FM Stations)

Ft West Palm Reach W2724R 102 3 (sesuma replaced by W269AM 101.7 Palm Beach) OR Chemult K220AE 91.9 (replaced by

K206AF 89.1 La Pine OR) WY Lyman K292AM 106.3, not heard by reporter in area; replaced by KOTB 106.3 Evanston WY

PR Levittown WJDZ *88.9. WEYA 88.9 Ponce serves San Juan "as a local," so WJDZ could not exist on 88.9. WEUC's format is easy listening music (b)

Off the Air

CT Cornwall WKKA *90.9, "maybe on in 12-24 months"

CT Germantown (Danbury) WFMEt 93.5, to go to 90.1 because of WFAR Danbury93.3 ID Kellogg KCJF 104.3

ID Lewiston KJLC *97.7, nobody at college seems to know anything about them (I have written Lewis and Clark College and so far no renty) - listed on NTIS microfiche

as a construction permit ME Biddeford WBSF *91.7-not heard in over

over a vear ME Springvale WN CY *91.1 (seeking, or sought *103.9)-hasn't been heard in 'several years'

WY Rawlins K288BG 105.5 WY Saratoga KWND 99.9

\$tereo Stations

ID Pocatello KSEI-FM 102.5 ID New Plymouth KIZN 93.1 PA Somerset WVSC-FM 97.7, rock TX Farwell KLZK 98.3, r. some "ABC" net. TX Monahans KGEE99.9 k[ountry] muisc UT Manti KM XU 105.1 b, "FM-105" (also affects Fillmore 99.3 and Richfield 99.3x(trs) WI Spencer WMJA 92.1 r. came on 9-21-84 WY Laramie KCGY 95.1 k, Y-106, dual-city identification with Chevenne

PQ La Pocatiere CHGB-Fm 107.1, classical Fluistakes-9th ed. Flu Atlas errors

AL Guntersville p. 125, WTWX 95.9 (not WTXN)

[Henderson NV xitr.] AL Alexander City p. 140 WRFS-FM 106.1 \$ symbol missing

AL Thomasville p. 123 WJDB-FM 95.3 add\$ CA Stockton KS.IC *89.5 n 84 add \$ /

FL Fort Lauderdale WHYI 100.7 p 132 Y-100 stocan missing

delete \$ symbol (station is mono) FL Miami p 143 WQBA-FM 107.5 slogan is

(\$ column. "Super O" FL Tampa p. 115 *90.5 stray "9" in / GA Blairsvilla n. 29 WPPLt 97.7 (not 96.7)

HI Hilo p. 127 KFSH 97.1 add \$ IN Columbus p. 88 WWWY 104.9 primary coverage missing (15), slogan remains Tri-WY (not Floi-105, as I heard when I drove through the area in July) [(KZRQ) ID Pocatello p. 87 KZBQ-FM 93.7 (not /

KS Goodland p. 90 *91.7 KANZ 91.11 (not 91 15) KS Ottawa p. 90 KKKX 95.7 (not KKXK) KY Somerset WDCL *89.9 p 90 P network (symbol missing missing

LA Baton Rouge p. 115 WBRH *90.3 \$/ LA Jennings KJEF-FM 92.7 add \$ to p. 119 LA Shreveport KSCL p. 91 (not WSCL) 91.3 LA Ville Platte KVPI-FM µ 121, 93.5 add\$ MD Annapolis p. 41"Anna" printed opposite WHES 99 1 (WSOX)

MA West Yarmouth p 17 WRZE 94.9 (not/ MA Worcester p 118 WAYW 91.9 missing 4470', 500 h.v. directional antenna)

MI Gladwyn p 136 VrGhm 103.1 add \$ MI Owosso p. 93 misspelled WI Warren WPHS p. 113 *89.1 add \$ [p. 93 MN Winona KSMR *92.5 add K network / MS Hattiesburg p. 137 WHERE 103.7 no

Y-104 slogan (Y-104 is the slogan of WHSY-Fin 104.5 Hattiesburg [*90.1) MS Oxford WMAV-FM u. 94 *90.3 (not / MO Ballwin KYMC *89.7 remove \$ symbol

p. 94 (is now monaural) MT Stanford p. 95 104.9 KLCM 95.9t(not 95.9 thped without the "t") NH Manchester p. 116 WANH *90.7 (not NJ New Brunswick p. 129 Vrm GO 98.3

(not WMCQ) NM Counselor map p. 63 misspelled Nim Santa Fe p. 96 KNim Q 105.9 r (format missing)

NY Walton W.DLA-FM p. 118 92.1 (going to 94.9), not WDAL-FM.

NC Asheville WUNF-FM (now WCQS) L. 98 no stereo-remove the \$ symbol NC Burlington p. 27 V-PCM 101.1 decimal point in frequency missing

NC Columbia p. 140 Wm DK 105.7 \$ symbol missing [symbol missing NC Greensbaro µ. 141 WUAG 106.1 \$ / [symbol missing NC Greenville p. 27 on map twice NC Wilmington p. 133 VvV/QQ 100.9 (not

WWQC+) OH Columbus WRMZ p. 131 50000, not / OK Alva p. 99 KXLS 99.7 has extra \$ symbol

OK Edmond p. 79 KCSC *90.1 coverages missing (34, 78) [symbol missing OK Pryor p. 138 KmYZ-Fm 104.5 \$/

FCC-FM

PA Greensburg WOKU p. 142 107.1 add \$symbol TN Nashville WLAC-FM 105.9 1230' (100000h.v) TX Taylor KR GT 92.1 La Consentida PA Mechanicsburg WKCD p. 121 93.5 net is S. Imatch WPGM-FM 96.7 PA Williamsport p. 101 WPGMt 101.7 ob. to / SD Reliance-Pierre p. 116 KTSD-FM listing is missing, \$, 1460 100000 h.v. P

[map SD Stoux Falls p. 52 KBBP *88.1 missing from / TX Alvin p. 103 KACC *91.3 \$ symbol missing TX Marshall KBWC p. 103 *91.1 \$ " TX Silsbee KWDX p. 124 101.7 \$ " TX Tyler a. 104 KNUE 101.5 missing, is Stereo.

k 33 73 tM UT Logan p. 74 KVFM 94.5 (not KMXL) VT Bullington WVPS p. 143 107.9 1/4 printed in-

stead of "P" [symbol VA Norton WNVA-Fm 106.3 p. 105 remove \$ / WA Yakima p. 73, dot locating town missing AT Edmonton p. 127 CIRK 97.3 no D network (D is actually for directional antenna)

AT Spirit River p. 108 CKUA-FM 12 *99.3 (not just CKUA-FM) NF Shekatshit p. 109 is 94.1, not 89.9

ON Peterborough CBBP 103.9 p. 137 add height of 740' Inn n. 111. PO Sherbrooke p. 79 CITE 1 94.5 (not 96.1), and/ Slogans, Non! Ds in Use

PQ Sherbrooke (not PS) p. 122 CITE-1 94.5 MEXICO Ciudad Juarez p. 111 XHH 100.7 is missina, \$. k. 50000

Facilities Changes Granted

AK Kodiak K296- 107.1 (from K292BN 107.1), still gives ID as K292BN. AZ Payson KKJJ 103.9 1800 h.v: 395' AR Blytheville KHLS 96.3 445' (100000 h.v)

CA Coachella KCHV 93.7 26500 h v: 640' CA Los Angeles KKGO 105.1 17600 h,v; 2890' CO E. Salt Creek K249BX 97.7 (from K261AL100 MO West Plains KWPM-FM 93.9 Stereo-94 100.1)

Meriden was incorrect, although transmitter is in Meriden)

CT Westport WEBE 107.9 385' (50000 h,v, direc.) RI Westerly WERI-FM 103.7 RI-104 FL Orlando WHOO-FM 96.5 1560' (98000 h.v) GA Biakely WRRK-FM 93.5.330' (3000 h v) ID Burley KMVC 99.9 (from 98.3) 25000 h,v;

2440'; middle of the road (m) music ID Rexburg KRIC *100.5 75000 h,v; 400', \$ 1L Champaign WEFT *90.1 920 h; 130' IL Marion WDDD-FM 107,3 50000 h.v: 500' IL Urbana WKIO 103.9 staying at 3000 h,v; 145' IN Petersburg WF OV 102,3 320' (3000 h,v) KS Kansas City KUDL 98.1 1150' (100000 h.v) KS Marysville KNDY-Fm 103.1 290' (3000 h.v) KS Winfield KWKS 94.3 (from 105.5) 1650 h,v;

395 MI Bay City WHNN 96.1 50000 h,v; 725' MI Lansing WITL-FM 100.7 28000 h,v; 625' NV Sparks KROY 92.1 3000 h.v: -385' NJ Atlantic City WMGM 103.7 50000 h.v; 350' NY New Rochelle WRTN 93.5 2950 h,v (330') NY Riverhead WRCN-FM 103.9 1500 h.v (470')

NC Kannapolis WJZR 99.7 100000 h.v (330') OH Celina WKKI 94 3 1200 h v 450 OH Tiffin WTTF-FM 103.7 50000 h.v: 430'-now

this station should finally have some DXability! OR Cave Junction K214AR *90.7 (from K220AB 91.9). OR Chiloguin K219AP *91.7 (from K217AE 91.3. OR Klamath Falls KKRB 106.9 (from 107.1) 43000 h,v; 1125' [88.9) OR Myrtle Point K220AJ *91.9 (from K205AC/

OR Roseburg K213AC *90.5 (from K208AD89.5) FL Macclenny WBKF 92.1 K-92 PA Emporium WQKY 92.7 3000 h.v: 300' PA Pittsburgh WPTS *98.5 (from 88.1), on air in \$tereo, p, 19 watts h,v

TN Jackson WKIR 104.1 655' (100000 h.v)

TX Amarillo KQIZ-Flv: 93.1 100000 b.v: 700' TX Laredo KHQY *88.1 285' (3000 h.v) TX Waco KNFO 95.5 100000 h. 96000v: 1060' UT Kanab KKHK 101.1 785' (99000 h.v) VA Salam WII M 93 5 97' /3000 h v)

WI Two Rivers WOTC 102.3 (from Manitowoccitizens objected to move, so the station decided not to; dual ID with Manitowoc, still 0-102, no network, no SCA confirmed WY Riverton 93.1 885' (100000 h,v) PR Fort Allen AFCN *90.5 50 w. no stereo PR Ramey Air Force Base AFCN *90.5 50, mono. KY hiddleshoro WhilK-FM 92.7 K-92

PR Roosevelt Roads AFCN *90.5 (not 92.9) 1000 watts \$teren PR Viegues Island AFCN *89.5 50 watts, no \$ PR San Juan (Fort Buchanan) AFCN *91.9 (not

103.1), 50 watts, monophonic On Air with Higher Power, DX ready!

IL Chicago WLUW *88.7 100 h. 92 v: 220' now rock, no \$ (delete \$ listing), "Chicago's Hit Line (strict)'

GA La Grange WJYA-FM 104.1 Joy GA Macon WPEZ 107.9 Easy Hits 108, still rm GA Savannah WJCL-FM 96.5 no nonID (was "The TX Beaumont KQXY 94.1 Beautiful Q

Gentle Giant') ID Boise KJOT 105.1 J-105 IL Arlington Heights WSEX 92.7 92.7--Fiv IL Kankakee WBYG 99.9 FM America (strict) IL Paxton WPXN 104.9 Stereo-105, mr, no net. KS Phillipsburg KQMA 92.5 Q-93. KY Lexington WLAP-FM 94.5 FM-941/2 MO Harrisonville KCFX 100.7 Stereo-101 NE Omaha KEEM 96 1 Lite-96 (strict) mr CT Middlefield WPKT *90.5 (stays there; move to ND Jamestown KQDJ 95.5 J Country-J95, \$, k. on air after having construction permit several

> SD Sigux Falls KPAT 97.3 ng nonLD: always used with call letters, no SCA (open carrier only) UT Salt Lake City KLCY-Flm 94.1 Classy 94 Flm WI Oshkosh WAHC 96.7 Super Hit 97 WI Baraboo-Madison WN LT 94.9 95-Light FM

WY Laramie KR QU 102.9 103-0 Now, a listing of nonIDs compiled by Nick Lombardi, Atlanta GA, who compared two issues of Radiophiles, by Peter Nolan and used with permission, with the 1984 issue of the FM Atlas and Station Directory. This listing is by frequency, and excluded from what Nick sent are some stations still on the list which have quit using their nonIDs. Thus, KQLS 100.3 Colby KS was given as using "KX-100," which were used under former call letters. KQLS has no non! D. This list and others in this colum and the Atlas I expect represent the high-water mark in nonl Ds. with many stations dropping their nonID and always using call letters, or using a slogan with calls, which does not count as a "nonID." Do check this list and the Atlas and notify about stations that no longer qualify as nonl Ders. NJ Newark WBGO *88.3 Jazz-88 NY Buffalo WRED *88.7 Jazz-88 (not Ffst-88) TX Houston KTSU *90.9 Choice Flu

ID Boise KBBK 92.3 Manic-92 (not Bock-92) MD Baltimore V. YST-FM 92.3 Your Star (not 92-Star)

November, 1984

NV Las Vegas KOMP 92.3 Fm-92-Rock CT Waterbury WWYZ 92.5 YZ-92 (YZ) FL Key West WFYN 92.5 Y-92 MN Golden Valley KQRS-Fm 92.5 KQ-92 MO Joplin KSYN 92,5 92-Rock (not Kiss-92)

PA Philadelphia w XTU 92.5 92-Fm IN Kakoma WZWZ 92.7 WZ-93 (not Z-93) MS Cleveland WOAZ 92.7 Z-93 TN Nashville WZEZ 92.9 EZ-92 (upt 93-FM) OH Cieveland WZAK 93.1 Fm-93 (not \$-93)

TX El Paso KAMZ 93.1 93-Z LA New Orleans WQUE-Flw 93.3 Q-93 NM Albuquerque KOB-FM 93.3 Sunny AL Butler WQGL 93.5 Q-93 CA Redondo Beach KFOX 93.5 K-Fox VA Salem WJL # 53.5 J-93 LA Shreveport KMBQ 93.7 93-FM-Q (not 0-93) MO St Louis KSD 93 7 KS94 HI Honolulu KMAI 93.9 My Rock 94 (not K-My) TX Corpus Christi KEXX 93.9 Classy-93 (X-Fw) NM Albuquerque KWXL 94.1 94-Rock TX Fort Worth KESS 94.1 La Fabulosa WA Seattle KliPS-FM 94.1 Country-94-FM (was/ Compass) (Country) AR Rogers KAhi O-Fhi 94.3 K-94 (was K-Inco CA Jackson KNGT 94.3 Valley-94 (was 94-Fm)

Ft. Lake City WOPD 94.3 94-0 HI makawao, maui KVIB 94.3 Country-94 KY Jenkins WIFX-FM 94.3 Foxy-94 MD Salisbury WICO-Fln 94.3 Country-94 NM Alamogordo KKEE 94.3 Flv-94 TN Oak Ridge VvETQ 94.3 Q-94 IA Fort Dodge KKEZ 94.5 EZ-94 KY Lexington WLAP-FM 94.5 FM-941/2 (not W-/ MN St. Paul KSTP-Fm 94.5 Sunny (not KS-95) ND Bizmarck KODY 94.5 KO-94 (not QD-94) TX Harlingen KELT 94.5 Country Class (FM-95) TX Lubbock KFmX-Fm 94.5 94=Rock TX San Angelo KIXY 94.7 Kicksie (not Y-95) MT Missoula KYSS 94.9 Kiss OH Fairfield WLLT 94.9 W-Lite TN Greenville WIKQ 94.9 KQ-95 TX Laredo KOYE 94.9 K-95 AL Prattville WOM 95.3 magic-95 MS Corinth WADI 95.3 1-95 NV Elko KRJC 95.3 Country-95 NM Grants KLLT 95.3 K-Life WA Ellensburg KXLE-FM 95.3 K-95 WV Elkins WELK 95.3 K-95 UT Ogden KJQN-FM 95.5 KJQ IN Wabash WKUZ 95,9 Z-95 OH Archbold WHFD 95.9 FM-96 PA Sharpsville WMGZ-FM 95.9 Magic-96 AZ Tucson KLPX 96.1 96-Rock IN Richmond WQLK 96.1 K-96 (not 96-FM) UT Provo KFin Y 96.1 K-96 GA Albany WJIZ 96.3 Z-96 TN Murfreesboro WZKS 96.3 Kiss-96 OH Akron WKDD 96.5 96-FM LA Morgan City KFXY 96.7 Y-96 (not Foxy)

MS Columbia WFFF-FM 96.7 Love-96

UT Salt Lake City KISN 97.1 Kissin'

KY Paducah WDDJ 96.9 Rock-97 (not Double J)

PQ Verdun CKGI 96.9 I-97 (not C'est Quoi)

NM Santa Fe KAFE-Fm 97.3 K-97 (not FM-97)

SC Cayce WZLD 96.7 Z-96

TX Palestine KLIS 96.7 96-K

MO Trenton KTTN-FM 92.1 Stereo-92 OK Broken Arrow KELI-Fin 92.1 92-K HI Honoluly KPOI 97.5 98-Rock 11 Rockford WZO K 97.5 Z-97 (not 97-ZOK) MS Oxford WOOR 97.5 Country-98 k OH Akron WAFZ 97.5 FZ-97 TX El Paso KYSR 97.5 KYS (not Kiss Radio) WV Charleston WQBE-FM 97.5 Q-97 [QR-FM] ON St. Catharines CJQR 97.7 QR-Country (not / OR Eugene KUGN-FM 97.9 98 Country Stereo (Stere o-98) (not FM-98) MA New Bedford WMYS 98.1 FM-98 (nat / OK Lawton KRLG 98.1 G-98 (not 98-FW) AZ Prescott KNOT-FM 98.3 FM-98 NJ New Brunswick WMGQ 98.3 Magic-FM-98 WAY Rinley WCEE 983 C-98 MS Tupela WZLQ 98.5 Z-99 (not The Q) TX Dallas KI IIV 98.7 I ove-99 VA Norfolk WNOR-Flw 98.7 Flw-99 (not Rock-99) CA Dinuba KOJY 98.9 K-Joy CA Riverside KGGI 99.1 K-99.1 CT New Haven WPLR 99.1 99-Rock TX Houston KODA 99.1 Coda Lite VA Roannke WSLO 99.1 Magic-99 (not Q-99) ID Mountain Home KOKZ 99.3 KO-99 (ZND) Mi Zeeland WZND 99.3 Country-99 (not Super-/ WI Waepun WGGQ 99.3 99.0 BC Vancouver CFOX 99.3 C-Fox (not FM-99) IN Greenfield WZPL 99.5 Indy's Apple (not 99%-Apple) (Kiss-99)

NM Albuquerque KZZX 99.5 Z-99 (not 99-FM) TX San Antonio KISS 99.5 Kiss FL Boca Raton-Miami WKOS 99.9 Q-100 (not/ IL Harrisburg WEBQ-FM 99.9 Q-99 (not Rock-100) LA Lafavette KTDY 99.9 FM-100 NM Clovis KTQM 99.9 FM-100 TX Brownsville KTXF 100.3 KTX TX San Antonio KLLS-FM 100.3 Class FM OH Findlay WHMQ 100.5 Q-Country (not Country-100) Inot The Cat) OK Oklahoma City KATT-FM 100.5 Rock-100 / BC Prince George CIOI 100.5 C-101 AZ Sierra Vista KTAZ 100.9 K-101 IN Peru WIVQ 100.9 Q-101 (not Stereo 101) VA Covington WI QO 100.9 Q-101 TN Memphis KRNB 101.1 Magic-101 MT Forsyth KXXE 101.3 Kicks (not Flat-101) IL Bloomington WBNQ 101.5 Q-101 (not 101FM) LA DeRidder KEAZ 101.7 K-101 MS Gluckstadt WZXQ 101.7 Rock-102 IL Skokie WCLR 101.9 102-FM (not Clear-102) IL Springfield WVEM 101.9 FM-102 MA Falmouth WCIB 101.9 FM-102 (not Stereo-/ WV Morgantown WVAQ 101.9 Q-102 (not Album FL Blountstown WRTM 102.3 Country-102

FL Dunneilon WTRS-FM 102.3 FM-102 L Eldorado WKSI 1023 K-102 (not Kiss-102) IL Morton WTAZ 1023 FM-102 LA Boyce KBCE 102.3 Classy-102 (FM-102) NC Roangke Rapids WPTM 1023 M-102 (not / TX Austin KPEZ 102.3 EZ-102 A L Jasper WWWB-FM 102.5 3WB CA Santa Maria KSNI 102.5 Sunny-102 (not Sunny Country) FL Sarasota WAVE 102.5 Wave MO St. Louis KEZK 1025 EZ-102 MO Cape Girardeau KEZS 102.9 EZ-103 NC Hickory WHKY-FM 1029 Y-1029 (not Gospel 1, now r, RKO network AR Helena KCRI-FM 103.1 KC-103 FL DeFuniak Springs WOUH 103.1 FM-103 (not/ KY Manchester WWXL-FM 103.1 XL-103 TN Knoxville WIM Z-FM 103.5 Rock-104 (not 104-IMZ) UT Salt Lake City KRSP-FM 103.5 Rock-103 IN Fort Wayne WXKE 103.9 Album-104 (not

KY Whitesburg WXKQ 103.9 Q-104
WV New Martinsville WKGI 103.9 KG-104
LA Monroe KWEZ 104.1 EZ-104 (not FM-104)
MI Detroit WOMC 104.3 FM-104
OH East Liverpool WELA 104.3 Country-104
MD Ocean City WQHQ 104.7 Q-105 (not QHQ)
OH Dayton WTUE 104.7 W-2 (not TUE)
KY Frankfort WKYW 104.9 K-105
TX kingsport WZXY 104.9 Y-105
TX kingsport WZXY 104.9 Y-105
TX hxxia KYCX-FM 104.9 Kicks-105
WA Pullman KQQQ-FM 104.9 KQ
MQ St. Joseph KSFT 105.1 K-105 (not
Stereo Country 105)
OH Salem WQXK 105.1 Q-105 (not Country-/

NU St. Joseph KS. 1 105.1 N-105 (not Country-) TX Abisen WDXK 105.1 0-105 (not Country-) TX Abisens KEAN-FM 105.1 K-105 (not Wo-Vo) NY Lake Placid WLPW 105.5 V-105 (not Wo-Vo) NY Lake Placid WLPW 105.5 LP-105 WV Lewisburg WKCJ 105.5 KC 105 TX Longview Tyler-Busthall KYKX 105.7 Kicks-106 TH Artford WHCN 105.9 Rock-106

CT Hartford WHCN 105.9 Rock-106 TN memphis WGKX 105.9 Kicks-106 (not KX-106)

AL Brewton WKNU 106.3 K-106 (not KNU) AR Greenwood KAJJ 106.3 Country-106 FL Holiday WVTY-Fhi 106.3 Variety-106 IN Columbia City WKSY 108.3 Sunny-106 (not Kiss-106) IA Ankeny KJJY 106.3 Fhr-106 TX Terrell Hills KESI 106.3 Rock-106 MS Vicksburg WKYV 106.7 KY-107 (not

KY Country)
VA hanassas WEZR 106.7 EZ-106.7
IL Peoria WSWT 106.9 Sweet
KS Topeka KTPK 106.9 Country-107
NY Auburn WPCX 106.9 Picks-106
0K Clinton KKCC-FM 106.9 KC (not The Fox)
CD Pueblo KRMX-FM 107.1 Radio MX
FL Melbourne WYTT 107.1 Variety-107
IL Urbana WFGU 107.1 Rock-107
KY Corbinn WCTT-FM 107.1 K-107
KY Hindman WKCB-FM 107.1 K-107
MI Port Huron WSAQ 107.1 Q-107 (not Q-/Country)

NY Briarcliff Manor WZFM 107.1 Magic 107 FL Jacksonville WCRJ-FM 107.3 FM 107 FL Miami WQBA-FM 107.5 Super Q (not Wuper Q)

MI Ishperning WMQT 107.5 Q-107 FL West Palm Beach WIRK 107.9 K-108-Country

I appreciate Nick doing this, which he did in response to a special request of mine. He says: Each of the approximately 1,000 Fh. alogaes contained therein was checked against the Atlas, and all monthivid cited against the Atlas, and all monthivid cited against the Atlas, and all monthivid cited against the against the Atlas, and all monthivid cited against the against the Atlas, and all the Atlas, and a second accordance to the quite accurate. It under the Atlas of th

Multi-City Identifications in Use

FL Fort Pierce WKGR 98.7 now IDs as "Fort Pierce-West Palm Beach-Boca Raton" FL Fort Lauderdale WWJF 106.7 as "Fort Lauderdale-Miami-Palm Beach" GA Gordon WOXM-Fh. 107.1 adds Macon, b

IL Charleston WEIC-Fm 92.1 adds Mattoon-Arcola, no noni D assumed

IL Pekin WCIC *91.5 adds Peoria

KS Hutchinson KSKU 102.1 adds wichita KY Fulton WwKF 99.3 adds Union City TN, still KF99 (strict), \$, r
OH Bellaire W Oln/P Fh. 100.5 adds Wheeling/
OH wilford WLYK 107.1 wilford Cincinnati (no mention of Mariemont), 107-Fwl
PA Wellsboro WNBT-Fm 104.5 adds Mansfield WI wanitowoc WiKKB 92.1 adds Two Rivers, wutual network

Formats/Networks

CT Hartford WKSS 95.7 r[ock] CT New Canaan WSLX *91.9 cj, now rebroadcasting WMNR *88.1 monroe 100% FL Plantation Key WFKZ 103.1 r, F-103 (striet)

ID Boise KB01-Fin 97.9 m, never wentr, as
Fin ATLAS and earlier VUD report had it
ID Payette KQPD 100.3 k (moving from 100.1)
IN Bloomington W.TTS 92.3 r ("their old Amformet")
["The Cat"]

IA Dubuque KATF 92.9 0 (CBS RadioRadio), MD Grantsville WAIJ *90.3 S (AP) network NY New York WPIX-FM 101.9 rm OH Dayton WCXL *89.5 (having moved from

89.3 along with sharetimer WDPS Dayton)

g both WCXL and WDPS are monaural. OH West Carroll ton WDRP "88.1 g (some k), "One of the work of the

commercial sound")
UT Salt Lake City KRCL *90.9 pe
WV Huntington WTCR 103.3 k(ountry)
WI La Crosse Wi Zhe-Fh. 93.3 RKO network
WI New Londow WNBK 93.5 D network (net.
WI West Bend WBKV-Fh. 92.5 V-92, r, still S /
WY Evanston KOTB 106.3 rm, K-106 (not.
strict)

WY Rock Springs KQSW 96.5 mr

Call Letter Change Assumed

NJ Zarephath WAWZ-"Fh." (from WAWZ-Fh.?) Alvi said to no longer be sharing time with WBNX New York, so assume the calls now WAWZ"-Fh.". WAWZ (Alw.) sold, presumably to the owners of WBNX.

Call Letters Assigned or Changed

AL Greenville 94.3 V-QZX AK Juneau 106.3 KYSY

AK Kodiak 104.9 K285AA on air, 100 watts (KGTL 103.5 Homer AK translator)

(KGTL 103.5 Homer AK translator)
AK Girdwood *91.9 K220AL (KSKA 91.1
Anchorage translator); on air

AZ Glendale 92.3 KJJJ-Flm (KEZC) AR Pine Bluff 99.3 KZYP CA Camarillo *90.3 Km RO

CA Pioneer 103.1 K276CH (not K276BA)
CO Manitou Springs 102.7 KIKX-FM (KIIQ-Fin),
"Kicks 102"

CO Pagosa Springs 106.3 KRQS DC Washington 99.5 WGAY"-FM" (WGAY-FM) FL Orlando 105.1 WBJW-FM (WBJW); no noniD

assumed in use GA lazon 99.1 WAYS (WinAZ-Fhi) ((strict) IL Le Roy 92.7 WTWN (WinLA), r "Fin-93" / IN Decatur 92.7 WOTZ (WinCZ), WhiEE 97.3 Fort Wayne took them to court over

Fort Wayne took them to court over similar-sounding call letters and got an injunction, thus WQTZ. FCC no longer arbitrates call letters disputs among stations.

FCC-FM IN Winamac 100.1 WOTD KS Hill City *90.5 KZNA KY Flemingsburg 106.3 WBPK LA Crowley 1029 KAJN"-FM" (KAJN-FM) LA Dry Prong *89.1 KVDP LA Slidell 105.3 WLTS-FM (WLTS); nonID is assumed discontinued LA Vamado 92.7 WBOX-FM (not WBOX) ME Millinocket 97.7 WSYY-FM (WKTR) MA Boston 100.7 WCOZ (WHUE-FM), stays b MA Lowell 99.5 WSSH (WSSH-FM) MI Cadillac 107.1 WITW Mil Gaylord 106.7 WKPK (WWRM): affects xitr. in Petoskey on 100 9 also (W205AA) MN Chisholm-Hibbing *88.9 K205AX (not / MN Rochester *95.5 K238AB (not K238AA) MO Birch Tree 107.1 KBMV-FM (not KBMV) MO Greenfield 93.5 KORX (KRFG): affects xi trs: 106.3 Joplin, 107.1 Springfield, 95.9 Stockton. MD Salem 95.9 KMMC (KSMO-FM) MT Wolf Point 102 3 K272RR NE Central City 100.3 KZEN NH Littleton 106.3 WMTK NM Bayard 92.7 KNFT-FM (KLCJ) NM Clovis 107.5 KZZO (KCPK), r, "The Zoo" NY Webster *90.7 WIUE NC Asheville *88.1 WCQS"-FM" (WUNF-FM) NC Wilson 106.1 WRDU (WXYY), new rock ND Williston 101.1 KDSR OH Proctorville *91.9 WMEJ OK Healdton 105.5 KZEA OK Henryetta 99.5 KDLB-FM (KDLB) OK Poteau 97.9 KZZE (KLUP) DK Pryor 104.5 KMYZ"-FM" (KMYZ-FM). 70000h.v: 1130' OR Astoria 92.9 KAST-FM (KBKN) OR Riddle 103.9 K280RH (not K280RA) SC Marion 94.3 WKXS (WATP-FM) TN Dickson 102.3 WDKN-FM (WTND) TX Denton 106.1 KTKS (KIXK), Kiss-FM, r

TX Refugio 106.3 KZTX (KPRT); assumed no more Spanish
TX Wichits Falls 106.3 KTLT
UT Tremonton 104.9 KBCM-FM (not KBCM)
VT South Burlington 95.3 WXXX
WA Longriew *90.3 KZDE
WA Spokane 92.9 KZZU (KREM"-FM")
WY Afton 98.3 KRSV-FM (not KRSV)

(affects Dallas 106.3 translator)

TX Greenville 93.5 KIKT (KGVL-FM)

TX Merkel 102.3 KIXK (KMID-FM)

WY Casper 106.9 KTKL
WY Laramie 107.1 K296AA (not K296BU)
SCA, all at 67 kHz this month

CT Bridgeport WPKN *89.5 talking for the blind, †T

NJ Newark WBGO *88.3 †E[thnic]—appears to be Italian NY New York WCBS-FM 101.1 no SCA—the last

NY New York WCBS-FM 101.1 no SCA—the last of Dow Jones' talking SCAs bites the dust (no 1F) PR Arecibo WCMN 107.3 no SCA PR Carolina WYO 7 107 7 no SCA

PR Gidra WBRQ 97.7 no SCA
PR Corozal WORO 92.5 no SCA
PR Isabela WKSA 101.5 no SCA
PR Mayaguez WKJB-FM 99.1 no SCA
PR Ponce WIOC 105.1 no SCA
PR San German WRPC 95.1 no SCA

PR San Juan WIPR-FM *91.3 no SCA WZNT 93.7 no SCA WPRM 98.5 no SCA WIOB 99.9 no SCA PR Vieques Island WLID 98.9 no SCA VI Christiansted WIVI 99.5 no SCA November, 1984

Contributors last month: John M. Adams, Seaside OR; Frank Aden, jr., Boise ID; Kurt Anderson. Woodbury CT; Jeffery Blair, Lima OH; Chuck Boehnke, ASWLC Fly editor, who kindly promoted my "Flu Atlas" in his column, Los Gatos CA. Also: Phil Boersma, Spring Lake Int : Roper Brown. Ames IA; Jim Cameron, New York NY; David Chepurna, Waterbury CT (who sent an article from the New York Sunday News, Aug. 16, 1964, p. 9C, "25 Years Ago Fm Radio Was Born," by Ben Grosswhen the U. S. had 1200 FM outlets operating. Also: Richard K. Clark, La Vega DR: John F. Combs. Orlando FL: Eugene Cooper, Lompor CA; Pat Dver, San Antonio TX; Don Erickson, Riverside CA. who has bought the few remaining copies of my 8th ed., and has a supply of the new 9th edition FM Atlas (write him at 6059 Essex St. Riverside CA 92504-1599 with an SASE for his book list when it is outlished): Bill Fahber, Bridgeton NJ: Bill Fait, Paingsville OH: Ted Fleischaker, Louisville KY; Larry Fuss, Jackson GA; Charles George, Dallas TX; Martin Gerhardt, Oceanside CA; Al Germand, Columbia MD: Bob Gilbert, Auburn ME; Robert Goodman, Bronx NY; Robert Grant Detroit MI; Paul Harkness, manager, KDNW (Fin) Duluth in N; William Heffin, Kankakee IL; William R. Hepburn, Hall Beach NWT; Jeff Kadet, Wacomb IL; Mike Kohl, Kodiak AK; Michael H. Krafeisen, station manager, WSEX Arlington Heights I.L.; Bob Levy, chief engineer WHRL Albany NY; Albert S. Lobel, San Diego (whom I enjoyed rooming with at the NRC convention in Colorado Springs); Fred Mc Cormack, Fargo ND: George Mileon, Lynn IviA: Dennis L. Miller, WCLV Cleveland OH: Greg Monti, Arlington VA: Paul R. Mount, Teaneck NJ: Raymond J. Nemec, Naverville IL: David J. Nieman, Akron NY: Peter A. Nolan, Radio Philes, Galveston TX: Eric G. Norberg, manager KWIP, Dallas OR: Walter Patton, Willowdale ON: R. H. Perrin, Wells ME: Jim Pizzi, Lovington NM: Richard Porter. Wood Dale IL; R. Povich, Annapolis MD; Paul J. Rebmann, WNFI Ormond Beach FL: Franklin and Richard Reese, Jersey Shore PA; R. Nitzel, Daly City CA; Nan Rubin, KUVO Denver CO; Steve Russell, KOPO Idarana AZ (a Tucson "rim-shotter"?); Kent Salzman, Bryan OH, Also: Mrs. Wardell Smith, Upper Montclair NJ (whose company, Music Associated, is getting out of the SCA business, as the Smiths are retiring); Jay Spell, Nashville TN; Paul Swearingen, Leadville CO (he lives in CA, but sent some station news while in Leadville. The Leadville frequencies vary so much from reality, I suspect he was getting cable leakages a common problem in some places in the west). And: Bill Thompson, Buffalo NY: David Tomlin, Berlin NJ: Stephen Tuura, St. Catharines ON: Don Voegele. Stockton CA: Alexander Wiese Munich, GERMANY: Don Wilkerson, Redwood City CA: Dr. Richard Wood, Hillo HI, (who does not really live up a mountain slope, but rather on a plain, about 100 feet above the ocean level -- he corrected me on this when he was here last month). I also want to thank the attendess at the V-TFDA convention, Jamestown NY, and the NRC convention, Colorado Springs CO, who kindly supplied station news. Eugene Cooper, Lompoc CA, says he's happy my ref. tipped him off to KSDS *88.3 San Diego, coming in loud and clear over an across the water path.

READERS' REPORTS AND FM INDUSTRY NEWS

A listener in NE Wisconsin on 24 Oct. 1983 heard for over an hour KKXL-FM 92.9 Grand Forks ND coming in on 91.1 mHz! He called KKXL-FM and they, said "they were testing at the time." At the same time MTV was heard on 93.5, and WNBK New London WI had reports 30 miles away of interference. I know the solution to the first problem-it was recently mentioned in this column. WGGL *91.1 Houghton MI, in trying to pick up WSCD Duluth at a relay site near Bayfield WI, experiences fading and gets Grand Forks at times. Here's something we DXers had better watch out for: In Appleton WI they've passed an antenna ordinance. They will allow one ground-mounted antenna in a back yard. "My 30 foot tower is on the side of the house and is in the 'grandfather' clause if I don't change it," writes Edward Isotalo. If this type of law spreads, DXing itself could be threatened. I think all DXers should resist vigoroously any zoning ordinance or even apartment covenant that forbids outside antennae. A Constitutional amendment needed? Then he asks, "Are there any excellent FM receivers, tuners or portables around now for DXing? It seems not. The Heathkit AR-1500, AJ-1510. AN-2016 with 90 to 100 dB alt, ch. selectivity are gone and most others are 70 dB or so alternate channel. I went to Sound World last week and asked what the best one is and NAD was recommended, but adjacent channel selectivity was only 8 dB! And he said it was judged best for under \$3,000! ... I still use my 1967 Heathkit GR 43-A, but it overloads on the yagi, but it is still better than many expensive stereo receivers. The Ak-1500 front end is excellent for not overloading."

Nick Lombardi: "I hope you didn't find my 'F'm Atlas Comments' too strident or pompous [Don't Beach of your 10,000 Atlas customers were to send two pages of comments and complaints, you would have 20,000 pages of material to digest, which would be a bit much! [Don't worry, I wish I had 10,000 customers, but it's closer to 1/5 that amount.] Now that 92 kHz SCA is coming into widespread use, I think you need to establish a new separate set of codes for it lead for 57 kHz)." He suggests separate letters for 92 kHz, like B for music K Tor talk, V voice paging and 2 data noise or telemetry. Instead, I am considering radically altering all my SCA categories, with the same letters for 67 and 92 kHz, but separate columns for them. I'm writing to see if I get a computer first, however. And Nick will be happy to know that this column will have used up all but the last of my stale old economy IBM Composer ribbons, which don't have enough inking to print an m or typroperly.

Jim Pizzi sent an article mentioning that KHFi_m 96.3 Albuquerque is now "15,000" watts atop Sanda Crest "KHFi_m, which is 30 years old and broadcasts 18 hours a day, was the first commercial Fin station in the state. It originally transmitted from a sibert tower south of the University of New Mexica. Transmitters were subsequently moved to the Northeast Heights, and then to Sandia Crest in 1977." I list them as 13,000 watts, but stations in their publicity often round their powers to higher figures. One of my customers is Jack Wninkow, Carlyle Communications Group, which is suing Amaturo for \$4.5 for breach of contract. Carlyle wanted to buy KhJLQ Houston, KhJJm St. Louis and WoRQ Detroit. I've been bird-dogging "rim-shor" stations they might consider for upgrading and reaching into major markets nearby. Carlyle is based in Chicago.

104 XKF)

John Ebeling sends some interesting news. From the Duluth newspaper: "Plans for that Minnesota Public Radio station on the Iron Range are humming along nicely. About \$33,000 has been raised out of about \$80,000 necessary. That's to supplement a \$104,000 federal grant... Construction should begin this fall and WIRR will go on the air by late November. The 20,000-watt station will broadcast from a 5,000 foot (?) tower at the old Grant Mine dump site at Buhl. The entire Range should finally receive a clear, strong MPR signal [90.9 mHz]. The station won't produce any of its own programming at first, but might a year or two down the line."

And WCCO (AM) Minneapolis is, for the first time ever, below 20% with a 19.1 share. Next in line are KSTP-FM and WLOL-FM tied for 11.3. I have access to Birch and Arbitron data, which agree on public radio's penetration in a number of markets. Madison WI is the top market nationally for public radio, with 15% of the audience, shared by four stations. WERN is tops with about 9% Arbitron does not list public radio stations, but does include listening to "other" (non-listed and out of town) stations, while Birch does give specific figures for public stations in many markets. All are in Jim Dunçan's American Radio, a rather expensive book published in Kalamazoo MI. Twin Cities listening totals 89.3%, leaving 10.7% to "other stations." KSIN-FM *91.1 shows 2.1% of the audience, while KTIS-FM *98.5 shows up with 1.4% of the radio audience. This compares with commercial stations in the chart John Ebeling sent: WWTC AM 1.5% KDWB AM 1.4% KGBB (107.9 Anoka) .8. etc.

"Both Grand Rapids MN stations have been back on the air or about a month now—tower must have been replaced. Any idea of the *99.5 International Falls KBHW translator on *98.3—as to where located and calls? [No, not yet.] Several weeks ago trops were so good here that, in the parking lot one noon local KBEM *88.5 (about 14 miles away) was completely blanked out by KCRB 88.5 Bemidji. . . I have also been receiving KMSU Mankato's translator on 91.9 from Albert Lea MN on a fairly regular basis. Haven't been able to log the KTIS-FM translator there. 103.9 is too close to local 104.1."

"I received the new FM Atlas recently and read with interest that you have plans to market an expanded SCA adapter," writes David Weller of New York city. "The new adapter would be able to tune the local ARI traffic report systems, I presume; as such, it would come in handy for me. Coincidentally, I had the opportunity to install an ARI-equipped Blaspunkt radio in my car not long ago, but I balked at the extra expense of having to buy a power amp separately. . . I purchased a GE TV-sound radio from you last year with an SCA adapter. I must say that the sound quality of SCA reception was a surprise, since I expected clean, clear FM sound for some reason. But I've had fun with the radio, and its quality is excellent. I'm used to the faraway sound of SCA... I own an Adcom tuner with a Parsec antenna—I've found and identified stations I wouldn't have known to look for without the Atlas. ."

Richard Reese just got a CBC French listing, which includes the following stations that are not in the Atlas, or on my computer records. Any information from readers, such as Walter Patton or Saul Chernos, on these would be most welcomed:

elcomed: Also:
PQ Ville de la Pocatiere 102.9
PQ Camp Fontanges 95.1
PQ Camp Goelette 95.1
PQ Opinace 100.3

"Whoever gave you AFCN is on 103.1 [San Juan PR] does not know what he is talking about! snarts Richard Clark, who kindly supplied most of the PR and VI station news appearing earlier in this month's column.

Kurt Anderson writes: "Many thanks for the tape recording of WMNR [*88.1 Monroe CT] as received in Kearney NE. My staff really got a kick out of it. They don't know how far FM can really go if conditions warrant. Please keep me on your mailing list. Your book gets better each year. At \$7.50 it is far more valuable for technical information than the \$80.00 Broadcasting Yearbook... The Blaupunkt ARI system is now on 5

FM stations in the New York city area:
WALK 97.5 Patchogue NY, WNEW-FM 102.7 New York NY,
WHTZ 100.3 Newark NJ, WZFM 107.1 Briarcliff Manor NY; WR KI 95.1
Brookfield CT.

"WPKT Meriden CT 90.5 is incorrect. The city of license is still Middlefield CT. They moved the transmitter from Middlefield to Meriden, but the city of license stays in Middlefield, I think they filled out their Form 340 wrong on the first try and I know they wrote the Commission to correct this fact."

New K285AA Kodiak AK on air with 100 watts from atop Pillar Mountain, 1200'. Already has been off due to weather and power surges. Receiving signal direct off-air from Homer, 100 miles away. Signal fades at times and thus fades over the translator, reports Mike Kohl in AK. "Personally I doubt the system will last the winter-in a very harsh location, along with Coast Guard VHF equipment, which was very badly damaged last winter by winds and ice. Puts out a good signal through 'Superstation' r [or rm]. Co-located Moody translator shifted from 106.3 to 107.1, although they still announce id as K292BN. I never saw any public notice on their change. I question the legality of it." [I did see the FCC approve their frequency change, but as usual for the FCC, they did not figure out new call numbers for K292BN. I guess a public notice escaped you because the FCC probably considers change of a translator frequency a minor change, and not requiring a public notice in the local media. They have done that with reference to change in primary station an FM translator picks up, despite the National Association of Broadcasters objecting to this change.

K285AA, a KGTL translator, is the result of a threeyear effort by the station, which can be heard "from Monashka Bay to Bells Flats to Chiniak. . . Kodiak listeners will be able to call Homer toll-free on a planned "486" number once it is installed. Broadcast hours at 6 a. m. to midnight, with the Moody network translator moved from 106.3 to 107.1 because of interference to the local cable Ph. system.

The Bugs are out! formerly Thank your for your patience in seeing us through our trials in getting Moody 106.3 Radio on the air on 107.1 mhz FM There were times when we interfered with listeners on the cable FM system We applicate for the inconvenience and trust that all is well now. Your support will ensure that you have the finest in stereo listening 24 hours a day. Contributions may be sent to: Christian Radio Sox 784 Kodiak, AK 99415

Jeff Kadet says WCAZ-Fls 192.1 is still broadcasting only on the left channel. "It's simply amazing that they haven't noticed it yet." WDHP 96.9 Presque Isle ME is back on the air after more than a 5-month absence, says an article in the Bangor ME Daily News, 18 Aug. 1984. "Financial troubles plagued the station's former owner, who declared bankruptcy in February. One of the station's former owners, Clarence Dow, bought the station early this spring. Attempts were made to start broadcasting in May, however settling the station's financial complications prevented broadcasts from airing until the end of July.

Hours will be 6 am to midnight seven days a week with a contemporary hit format. "Live satellite music shows, programmed by national consultants Burkhart/ Abrams will be featured... All programming will originate from Texas and will be sent live to the station via a stallite server."

K-Radio, an Flw. Pirate?!! It was on 24 hours a day at 104.7 FM during the NAB-NRBA Radio Convention in Los Angeles had 9 staff DJs donating their time and six news persons and was commercials. One of its guiding lights, Jim Cameron, says it had 20 watts 650' HAAT.

This station must have been illegal or extralegal as far as FCC is concerned, but the people from the Commission must have winked at it, since they were in attendance, along with radio broadcasters and program suppliers. K-Radio's audio chain included Optimod processing equipment, a McMartin FM exciter and a Cetec JSCP antenna, so that means 20 watts h & v. At 650' HAAT, that means K-Radios primary (1 my/meter) coverage radius would have been six miles and its secondary (50 microvolts/m) would have been 26 milesquite a pirate! And the FCC tells me that I cannot operate my "beam" with an erp of 120 milliwatts! I am, however, developing a real-estate radio transmitter, about 10 mw, to cover only my property with a continuous tape, using an auto-reverse cassette. This will feature a pitch to be received by persons parked in front, listening on an FM car radio, and will include a sign giving information on how to tune in. The concept has been tried before on AM, but not on FM, to my knowledge.

FCC-FIM

Watch for K-Radio to appear again; it will be revitalized at similar conventions in Los Angeles and elsewhere. I will try to alert you to K-Radio tuning-in opportunities before they happen. Up on the bird floor of the Bonwenture, K-Radio broke in

periodically between its pre-programmed AOR format with the hot news of the convention. Cameron has managed to sell commercial time to 30 sponsors, most of whom have axhible at the convention. Operating on a frequency of 104.7 (childry) because no one else around central Los Angelas seemed to be using that frequency, Camero and central Los Angelas seemed to be using that frequency, Camero and sellations of the convention. Cameron tried the idea for the first time last year, when the NAB held its convention in San Francisco, and it went over so well that he's now planning on marketing it to mejor conventions all over the country. How about doing live radio at the AMA convention feath country. How about doing live radio at the AMA convention feath convention has its own radio station he proposes. All the elements of a real radio station are there: spilled Styrofoam coffee cups, a well-planned programming schedule to which no one paid much attention, three different off-the-air chieftains shouting, contradictory orders at the on-air deelay, who heard nothing because his earphones blocked out all extraneous noise. Cameron even had a taem of seven top-flight news reporters lined up as of Sunday to break in with flashes and spot interviews. KRT H-FM (101.1)'s Mary Lyon and David Mellar of KMPC his convention of the confidency. "You can be twell be there." (This from a Los Angeles Timestricle Sept. 18, 1984, sent by Cameron Communica-frons, 176.1).

With WDPS and WCXL Dayton botn on *89.5, it is harder to get co-channel of WHSS Hamilton OH in certain places. Strange that WCXL-WDPS should move from 89.3 to 89.5 and be so close geographically to Hamilton OH. "Perhaps it's because WUSO Springfield OH will be moving to 89.3. 1 recently neard WUSO. They are still on 89.1 with 10 watts," muses

Dr. Richard Wood, who survived quite an accident on a downhill freeway near Las Vegas when his car tire blew, after his visit in Kearney, sent Flu station news from WY-UT-NV. He also visited Don Erickson, who is anxious to sell copies of the old FM Atlases and other books. Richard reported that all translators "logically predictable to be audible on my trip were audible (exception noted earlier) and proved to have greater coverage, in most or all cases, than I expected-often 30 miles depending on terrain. I know more about translators now. . . The 101.7 translator in Laramie [K269BG] is having technical problems and appears to be on 101.8, to judge from its equal strength on the 101.7 and 101.9 settings of my digital Panasonic car radio at up to 25 mi. from Laramie (where the other translators were heard only on their nominal channel). Also, it is severely distorted. UT Logan 94.5 KVPlw not heard -apparently blocked by mountains. UT 'Color 95' Provo KLRZ noted with images and/or mixing products on 93.7 and 95.3, up to 10 miles north of Provo. *90.9 Salt Lake City 1D "Alternative Radio" heard with truly original programming by and for American Indians on Sunday morningso change to, or add, p and e. . . . Well, Bruce, sometimes you've given me column credit when I really didn't deserve it, but this time I think I've helped a little and am glad to do so. . . Have a good fall, and mahalo (thanks) again." [Thanks, Richard, for this help. I appreciate your checking out specific stations I needed information about on the trip, as well as observations on other stations and translators. Glad you got out of a potentially bad accident situation so well.l

Frank Aden says KRFA *91.7 is identifying as Moscow ID, but it appears to have been taken over by Washington interests. There is even confusion about the call letters. It is called "KFRA" by my Idaho reporter, but the FCC says it is KRFA, with KFRA being in Franklin LA. Maybe the station itself is identifying with the wrong call letters! KRSII *91.3 Boise "has been taken over by the state (Idaho Educational and Public Broadcasting Network) and wants to go NPR. Seems to be a lot of discussion on it as the staff wants to stay student run. The Idaho Statesman has been running editorials against the transfer but many letters have been published in favor of the transfer. Looks like the state wants to take the money used by ex-KUID-FM and give it to KBSU," says Frank, KFXD (AM) with studios in Meridian ID is laying off staffers and going to the Satellite Music Network, with Jack Sunday (his real name?) joining KFXD-FM as morning shift announcer. Frank says: KBOI-FM 97.9 Boise has been MOR beautiful music since 1975. They are presently running Schulke but will be going Bonneville in January. They are pretty upset about the listing in the FM Atlas showing them as rock, and you will probably be getting a letter from them. [I believe I saw they were reported as rock in a VUD report a few months back, and that's why I changed their format! Color 'em m for m-o-r.]

KRIC *100.5 Rexburg ID is not 75 watts, but 75-thousand watts, and has been for almost a year! [I refused to believe the FCC on this one, and it is I who demoted them to the status of a 10-watt station with a high-gain antenna for 75watts ERP. Sorry if this hurts my credibility !- B.E.] . . . I decided not to list slogans/nonIDs after publishing the Oregon Broadcast Band Guide. I found that more than 2/3 had changed between the time I collected the information and the publishing date. Most of the stations around here change slogans almost every month. KBBK has used 6 so far this year [let me know the current one-b.e.]. As for stereo, I felt it was no longer of importance as all of the Idaho FM stations reported being stereo. As for translators those that were on the air in the smaller towns appear to be going off as more regular stations come on. [?]... many of the stations do not even have complete lists of what translators are rebroadcasting them. . . KISU 89.5 Pocatello 10 kw plans to return to the air in 1985-6." KISU would replace KBGL, which deleted. Frank then promos the FM Atlas; his own guide, with formats, etc. and TV, FM and AM maps, 1984 edition. is quite extensive for Idaho. For information on the "Idaho Broadcasting Guide," write Frank Aden, Jr., PO Box 66352, Portland OR 97266

WNCY *91.1, owned by Nasson College, has not been heard in several years. Nasson went bankrupt and folded last year. A letter to WNCY's former manager is unanswered. WNCY could go the way of WRNE Houlton ME, taken over by the local high school. Not deleted yet! [WNCY was seeking 103.9, 17 w horizontal only, minus 16'.]

Randry Stanley in Mishawaka IN enjoyed a sample VUD I gave him, saying "I am considering joining the club. I read in the WTFDA bullet in that you had logged 1491 Fm stations as of September 7, 1984. . . I would be interested to know more about the equipment that you set for DXind. "He's a high-school student, maintaining a 4, Dayerage.

Craig Pattillo got a list of KSOR translators, which I tried to sort out, earlier pages of this column. "How about placing the (t) for translators with the noncommercial designation for essier identification. Since you did away with the translator call sign (which I don't like) it is hard to distinguish between the primary stations now."

David Nieman sent an article on a truly family radio station—Peter Hunn's WHRC 92.1 Port Henry NY. He and his wife, Carolyn, run the station from their living room, and have done so since 1982. He bought equipment when it became available and put the station on the air for \$40-\$50,000. Hunn, 31, works at the station 5 a. m. to midnight most days. Advertising pays the mortgage, the power and the phones, but profits so far are lean. But they d like not to work at such demanding jobs the rest of their lives. WHRC—It must be much like WHYP-Fw 100.9 North East PA, which I heard while driving to 10 Yr outs 17 and the Jamestown convention.

Contribution this month: Frank Adam, Jr., Boise ID; Kurt Anderson, Monroe CT; Chuck Boehnke, LoeGatos CA (who wants me to do an SCA article for his ASWLC column), Jim Cameron, Brocklyn NY; Dick Clark, Le Vege DR; Ronald Duvalle, Two Rivers WI; F. S. Dombrowski, Jr., Milwestkee WI (who will be employed for the first time since?-81, and says "College finally paid off!!") Others to be listed next month!

TENNĂ NEWS

3009 Port Sheldon

November 1984

Dear Fellow DX'ers,

My apologies for no column last month. Things are very hectic here.

Thanks for the break!

I have a few miscellaneous thoughts before getting into this month's discussion on auto fm antennas. First, why no antenna company has jumped on the "Chostbusters" theme (bandwagon) is beyond me. Second, I have a 750' spool of $\frac{1}{2}$ " (500 series) hardline coax that I would be happy to sell by the foot to anyone that wants some. Price is 50¢ per foot. Third, Mark Uhryk reports that the tuner reviews presented in the Sensible Sound magazine are excellent. Thanks for the note Mark. Mark also points out that the VUD is generally void of such reviews. I would imagine that the reason for this is the overall cost of full scale testing equipment. However, I would encourage members to write reports on new pieces of hardware which they purchase. This would greatly help other dx'ers in the expenditure of their hard earned bucks. Also in regards to Mr. Uhryks letter, I do not have any information on the Bosch Autoflex antenna but would appreciate any which you could supply. Fourth on my list of thoughts, it was mentioned a couple of months back that there might be a shortage of Channel Master antenna equipment this fall due to their move to new facilities. I have not experienced any delays yet and doubt that the problem will be as bad as we had originally feared.

AUTO FM * THE FORGOTTEN ANTENNA SYSTEM

While great advance have been made in the tuner department of automobile fm reception, the antenna department has been largely ignored. Most often, if one desires better fm reception, the only option is to add a preamp. When companies have brought out a better performing antenna, the product did not catch on in the marketplace for one reason or another. It is probably this stigma of non-marketability that keeps most manufacturers from producing a

high-performance product. Standard on most American automobiles is the fender mounted 1-wave whip. It is very cheap to produce and gives acceptable results. From the theory standpoint it makes alot of sense because it is resonant at this point. From the cosmetics viewpoint it has become quite acceptable and nobody asks "What is that antenna thing for there on the fender?".

Several years ago, the windshield antenna was brought to the marketplace by the then "GM superstar" John DeLorean. Although DeLorean is a very bright man, the windshield antenna and dealing cocaine are not among his best ideas. In reality, DeLorean was quite dissappointed with how the antenna worked in the real world and himself considered it one of the poorest inno-

vations that he promoted while at GM.

The "short antenna" is an idea promoted chiefly by Hirschmann from Germany. Typically it is a short (16') antenna which pivots up from a base mounted on the car body. Because they are so short they are considered good looking by the buying public. Also because of their shortness, they need amplifica-

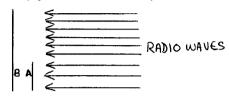
tion to match the performance of even the $\frac{1}{4}$ -wave whip. The last commercially available antenna that I'll mention is the Avanti "glue-on-the-windshield" type. This product really caught my eye when it was introduced a few years ago. It is a 2-wave design which screws into a small base which is in turn epoxied onto the car's windshield or other body glass. The signal is then capacitively coupled through the glass to a pick-up inside the car. Because there is no connection to the body metal (ground) at the antenna, the pick-up on the inside of the window contains noise reduction circuitry. To me this seems like the perfect antenna for vehicles with positive ground (White Freightliners for example) since the antenna is usually the only thing that can't be isolated. The antenna also needs no ground plane so is a natural for Corvettes, Fieros, etc. The antenna performs 7% better than a standard 1/2-wave on fm and 70% better than a windshield antenna on fm. For am fans, it performs 22% better than either of the others. The antenna is still made by Avanti who was bought out by Antenna Specialists a couple of years ago. Price is \$30. If you want one and can't find one locally, I have 2 brand new ones still in the box that

I'll sell for \$25 each. I had to buy 3 from A/S to get one.

DESIGNING THE ULTIMATE

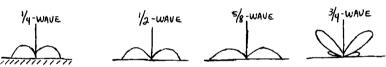
Taking for granted that we're working with a metal bodied, negative ground automobile, and that we're not concerned with if we hit the garage roof with our antenna when we pull in or not, the ultimate auto fm antenna is described below (my views of course).

Physical length-It stands to reason that long is better. Forgetting about everything else for a moment, please look at the picture below.



Antenna A is only going to avail itself to 1/3 of the waves that antenna B is getting. I know that this is a bit simplified but I think the point is

Electrical length- There are other considerations though. As an antenna changes it's electrical length it becomes more or less resonant and also it's pick-up pattern changes. The only lengths which are resonant are multiples of 4 wavelength. The only lengths which terminate well into a coaxial cable are odd multiples of a $\frac{1}{4}$ wavelength ($\frac{1}{4}$, $\frac{3}{4}$, $\frac{1}{4}$, etc.). We might be tempted to cut a few inches off of a 102" CB whip to make a 93" 3/4-wave fm whip. However, please look at the directional patterns presented by various wavelength antennas below.



As you can see, the 4-wave picks up well at most angles except straight up. The 2-wave has its' pattern squished down a little so that pick-up is better horizontally and not quite as good at angles up and away from the ground. The 5/8-wave is the most horizontal pattern obtainable in fact its' horizontal reception abilities is twice that of the $\frac{1}{4}$ -wave. The 3/4wave antenna starts to break up in the pattern end of things and has very little response in the horizontal plane. As you can see, the 5/8-wave antenna presents the very best available pick-up pattern, receiving less noise producing signal from up above and receiving strongly the signal coming from the horizon. A 5/8 wavelength antenna for the fm band would be around 75 inches at full length and could be coil loaded for shorter

The problem however with 5/8-wave antennas is that they are not resonant nor do they terminate in an impedance corresponding to an available coaxial cable. This problem can be easily overcome with a small matching circuit at the base of the antenna or by stub tuning on the coaxial cable itself. This is commonly done in the buisness band field, in fact most business band antenna catalogs are loaded with 5/8-wave product. What also becomes apparent when reviewing the impedance issue is that even the stock t-wave whip is often poorly matched to the coax in that the theoretical impedance of the $\frac{1}{4}$ -wave is 36 ohms not the 72 ohm which most auto sound inputs are. What the actual impedance is varies over the 83-108mhz band and also varies a little from car to car. Also, the typical localdistant switch in most car tuners blows all input impedance figures into the weeds when it's in the local position (which it rarely is for dx'ing).

Antenna News

Page 3

November 1984

Placement on the car body— Where the antenna is placed on the car body drastically affects the directivity of pickup as shown in the following diagrams.





MOUNTED



ROOF MOUNTED

Not being an artist, I have not shown very reliable or accurate pictures but please bear with me. You can see the effects of the ground plane in the above samples. In the headings for which no or little ground plane exists, pickup suffers. You can easily see the advantage of a rooftop installation. Several attempts have been made over the last 40 years to put antennas on the roof right from the factory. The two biggest problems have been breakage due to garage roofs etc., and water leakage. Using a magnet mount would of course release you from much of this kind of worry.

Bandpass- An antenna is an antenna for all frequencies, perhaps a very poor one, but it is one nonetheless. It probably is very directional to frequencies out of the band of interest and the gain may be quite abit lower and the impedance may not match, but your antenna is picking up every frequency in the air surrounding your car. The net result of all this is that all kinds of signal gets fed to the front end of your receiver for it to sort out and find what station it is that you are looking for. Although auto tuners do this job amazingly well for their cost and physical size, their job is made much easier and their performance is increased when all this extra signal is eithernot there od diminished by abit. I hope you can see a good case for bandpass filtering.

My ideas— My ideas for the ultimate fm automotive antenna then would be a 5/3-wavelength whip in the middle of the roof with good impedance matching provided and also bandpass filtering provided. I don't know of anything like this on the market but one could be fabricated from scratch using plans from the Amateur Radio Handbook for 2-meter antennas and just modifying it for the Fm band. One could also be made by using parts from a business band line like Antenna Specialists or Cushcraft. Pandpass filters are available from Winegard and Channel Master.

An Alternative for the Local-Distant switch— Usually the antenna input on the rear of the radio feeds into some subminiture size of coax which runs up to the front of the radio to the Local/Distant switch. This often is no more than a switch which switches in a high value resistor into the signal path and turns off a tunch of the signal. A tetter alternative would be to run the little coax directly to the tuner input and to use a variable attenuator in the coax line coming from the antenna. These are available from Winegard, Channel Master, Jerrold, etc. At least the impedance values remain constant.

Preamps- A final word about automotive preamps. I would be hard pressed to say there is a better unit on the market than the Magnum Sleuth. This unit is fantastic. I believe Eruce Elving is a Magnum dealer so he's the man to talk to for more info on this piece of gear. Among all the other units on the market I hear mixed reports on the Winegard, the Channel Master is not out yet, the Finco can no longer be found, but the AFM by Antennacraft seems to be almost complaint free by the people who use them. They are very inexpensive \$20\$ and seem to be a good value for the money. If you can't find them locally let me know.

Thanks for reading. Have a good Thanksgiving.

Saul Chernos 79 Ridge Drive Toronto Ontario Canada MAT 186

<u></u>	7011010 1141 127
DAVE NIEMAN - AKRON NY 14001 EDT Time / Carve	er TX-11, Pioneer TX-9100, \$Probe-9, dipole.
MAY 1984	(JULY) 9 Es (MUF 93.9)
21 Es (MUF 98.7)	2055 WBRH 90.3 LA Baton Rouge g \$ 1090
1343 WLVE 93.9 FL Miami Bch r\$"Love 94 FM"1200	2059 WABE 90.1 CA Atlanta c \$ 720
24 Es (MUF 103.7)	26 Es (MUF 107.5) 1400-1500 to 93.3 no IDs
	1850 KNOK 107.5 TX Fort Worth s \$ 1215
1440 WQUE 93.3 LA New Orleans r \$ 1090	1852 KIXX 106.1 TX Denton r \$ 1175
1501 WJSU 88.5 MS Jackson 970	2050 WMPR 90.1 MS Jackson j \$ 970
JUNE 1984	31 Es (MUF 90.9)
13 Es (MUF 93.9)	1300 KVNE 89.5 TX Tyler g \$ 1155
1827 WKPX 88.5 FL Sunrise r \$ 1160	AUGUST 1984
21 Es (MUF 94.7)	6 Tr & Es (MUF 106.1)
	0107 CBCE 97.5 ON Little Current ct s-off 260
23 Tr (WBFO 88.7 NY Buffalo off-air)	1730 CBSI 24 106.1 PQ Baie Comeau m FF 640
0810 CBOF 9 88.7 PQ Châpeau m FF 229	1800 CFIM 92.7 PQ Cap aux Meules mr \$ FF 840
25 Es (MUF 100.3) 2018 KTRS 95.5 WY Casper r \$ 1380	<u>7 Tr</u> 1441 WJGT 89.5 NY Canton cm\$ (new-to-air) 190
2030 KILI 90.1 SD Porcupine r \$ 1170	9 Tr
WILY 1984	2200 WXLV 90.5 PA Schnecksville r \$ 220
5 Es (MUF 93.3)	<u> </u>
728 WCKW 92.3 LA Laplace kr \$ 1090	COMMENTS: There wasn't much of a DX season here in Western NY and by the reports in this
1808 KLPI 89.1 LA Ruston j \$ 1049	worms WID thous smentt much elecuhere Tet
1818 KVNE 89.5 TX Tyler g \$ "FM-89" 1159	me he the first to say that DY will come alive
in '85 cause DX was a bore in '84. (zzzzz-saul	.) That was corny but leave it in. All we can do
s say to ourselves what the Buffalo Bills for	tball club tells its fan after every season:
mait till next year. O God, I hope it won't be	that bad!!! It can'tnot two years in a row.
DODDDT CDANT 5775 Dichon Detroit MT 18221	(Poha I cont more info to Mailhow - mani)
BOBERT GRANT - 5775 Bishop - Detroit MI 48224	(Rob: I sent revr info to Mailbox - saul)
MOVEMBER 28 1983 GW-Tr	0802 WCVJ 90.9 OH Jefferson g
91.5 ON Windsor r FF ID new-to-air 1400 WPHS 89.1 MI Warren r ID (ex-91.5, made	
way for CJAM)	0106 WNED 94.5 NY Buffalo c s-off
JUNE 12 1984 Tr	0117 WHIO 99.1 OH Dayton b ID
0800 WHSH 99.7 PA Pittsburgh	Also heard on many nights: CBEE 95.1 ON Chatham
0802 WWSW 94.5 PA Pittsburgh "3WS" lcl nx	xlting WIOG 106.3 MI Saginaw.
	5.3 Sarnia ON when CBC on-air, that 95.1 leaves
	cuations like this do occur (was it YOU who noti-
Nice talking with you at Jamestown, Robsay	agly hit it - and can create mysteries for a DXer.
The state of the s	
ATRICK DURKIN jr - 2401 Wimbledon Drive - WOO	DBURY MN 55125 CDT Time Log totals 329
GE Superadio w/whip or Pioneer SX-850 w/Wine	gard CS-7080 VHF-UHF antenna pointed NW at 25')
JUGUST 1984	(AUG 25 Tr)
21 Tr	0045 KIIK 103.7 IA Davenport simulcasting
	235 "Friday Night Videos" with WOC-TV-6" 260
2240 KXJX 103.3 IA Pella :	235 <u>26 Tr</u> 60 0030 WMBN 96.3 MI Petoskey 395
	45 28 Tr
2302 KCPI 95.3 MN Albert Lea "Magic 95"	80 0010 KBHP 101.1 MN Bemidji 205
	285 0021 KKBJ 103.7 MN Bemidji 205
	225 0052 KQRN 107.3 SD Mitchell s-off 255
22 Tr	0054 WUPM 106.9 MI Ironwood 185
0114 KIIK 103.7 IA Davenport	260 0101 KCRB 88.5 MN Bemidji o/KBEM 205
	265 0120 KPAT 97.3 SD Sioux Falls 200
0130 WXLP 96.9 IL Moline	265 1736 KPRM 97.5 MN Park Rapids o/KNXR 175
24 Tr	1740 KQWB 98.7 MN Moorhead 225
	290 1915 WNCB 89.1 MN Duluth low 490 w power 145 565 2202 KTOS 91.5 NE Omaha 285
2330 WSTO 96.1 KY Owensboro longest Tr here	565 2202 <u>KIOS</u> 91.5 NE Cmaha 285 2206 KCHA 95.9 IA Charles City 120
	285
0036 WZUU 95.7 WI Milwukee	comments: unexpectacity, Di has been abundant
Arrameter since the 21th From as I write (All	SHICE DIE 2130 MICH 6000 CACCITATION TOPC

veryday since the 24th. Even as I write (AUG 29), cx are still up. Since putting in the linegard ant., my TV DX has greatly improved, but it hasn't helped with FM much. I can't rotate the ant. either, as it barely fits in between the beams in my attic. I do most FM DX w/ the

Superadio. For a \$49 portable, it really performs: Re my DX: WRDN 95.9 WI Durand, the only 60 miles from here, is rare, as WLKX MN Forest Lk & KDHL MN Faribault (now back on air) are even closer & s-off later than WRDN. On AUG 24, WTSO catch set a new FM Tr record for me from MN...565 miles...and was only the 2nd time I've seen ducting here (1st, AUG '81 w/KKRD 107.3 KS wichita at 550 mi). Called WTSO after ph# ment., and DJ really surprised! Unfortunately, it started to rain & faded out before he mentioned my reception on-air. KIIK 103.7 IA simulcasted "Friday Night Videos" w/NBC-TV in "Quad Cities" area (WOC ch.6). WLOL 99.5 here does same w/ WTCN ch.ll but time slightly different here...12:05 not 11:30; TV-FM DXers note: Many of KTCA TV ch 2 are simulcast on FM KBEM 88.5, both Minneapolis-StPaul MN Es targets. Hope the current DX continues well into Sept. 73 & good DX, Pat. (Ed: Actually, I hope it IMPROVES-saul)

MATTI NIIT - 3527 West 22nd Avenue - VANCCUVER BC - V6S 1J4 PDT Times Ham calls VE7FFH JUNE 1984 JULY 1984 5 Es (TX stns DOUBLE HOP) 1107 2217 KBRO 105.1 CO Denver 1155 KRDO 95.1 CO Co.Springs 1107 2220 KMJI 100.3 CO Denver 1157 KUHF 88.7 TX Houston i ID 1987 1.987 16 Es 1203 KTSUt 90.9 TX Houston 1107 1987 2132 KCFR 90.1 CO Denver j 1208 KPFT 90.1 TX Houston 824 1220 KTAK 93.9 WY Riverton "K-94" 31 Es 1160 2255 CITI 92.1 MB Winnipeg r 1312 KBLH 92.1 CO LaJunta k 1242 1125 2302 CBC unIDs 90.5//90.9 (prob. Fort Frances ON & 1508 KVRH 92.1 CO Salida FlinFlon MB but I'd have to check more carefully-ed 8 Es 2305 CBWF 90.9 MB Flin Flon "Serving N'ern MB" 1042 KDCR 88.5 IA Sioux Centre (ED: well F.F. is certain, I'll check other out) 1050 KKEZ 94.5 IA FtDodge r 1460 1103 KQAA 94.9 SD Aberdeen "KQ-95" 1180 2339 CBKF3 93.5 SA Zenon Park FF 1132 KSJRt 90.1 MN Collegeville c 1360 2348 KIZZ 93.7 ND Minot jingle 1351 AUGUST 1984 1145 WYRQ 92.1 MN Little Falls 10 Tr 1200 KDSU 91.9 ND Fargo "SU-92" j 1225 257 1225 1257 KMHD 89.1 OR Gresham 1200 KCCM 91.1 MN Moorhead c 153 9 GW-Tr OLO2 KAOS 89.3 WA Olympia s (Ed: are those calls 1845 "Underground-FM-90" 89.7v; for real or has Matti been watching too much TV) local PIRATE from South Burnaby BC (Ed: I assume the "v" means varying 802 1159 KCSM 91.1 CA San Mateo frequency. Last week I logged my first FM pirate (see my rep't) & 12 Ms 769 0521 KLRZ 94.9 UT Provo "Color-95" varying freq does happen at times) 0701 CKUA-13 91.3 AB Drumheller 484 (Ed again: format, address on air?) 1227 XETRA 91.1 MX Tijuana "91-X" 1195 12 Es 1137 KPNY 92.1 NE Alliance "K-Pony" 1093 1856 KILI 90.1 SD Porcupine k 1143 KSDZ 95.5 NE Gordon k 13 Es EQUIPMENT: JVC-RS7 rcvr; RadioShack FM Yagi w/6 el. 1160 0943 CITI 92.1 MB Winnipeg r

Northern, Matti-saul). The highlight of this DX season has got to be the 2Es - my first ever on JUNE 5. The signals were strong & hardly distinguishable from the single-hop stns also in. And the whole event is CN TAPE! Otherwise, Es disappointing this season, w/ few long-duration openings, and a notable lack of anything from the South. The Perseids MS had fewer bursts than last year, but I did, however, log a much needed province - Alberta - so I won't complain. Has anyone checked out the Magnum 105FM Antenna booster? I saw a review in the Sept/84 Stereo Review; it's a highly selective, low-noise FM Preamp with variable gain (or attenuation) looks very interesting. 73 for now, Matti Niit, VE7FFH

BOR ZENT - 1835 Fruit Street - HUNTINGDON IN 46750

0954 CHIQ 94.3 MB Winnipeg r "Q-94" 1160

BOB ZENT = 1855 Fruit Street = Hontingbon In
AUGUST 1984
l Es/Ms
0029 CIZLt 98.9 SA Regina "Zed-99"
(Ed: Zed is Zee in Canadian dialect,
so you may be right-saul) KZVS:745
0407 KZVS 98.9 OK Oklahoma City "99FM, KZVS"
6 Es (MUF at least 103.5, lots unIDs)
1741 CIOSt 98.5 NF Stephenville
11 Ms/Tr
0320 KZVS 98.9 OK OKC "99 FM KZVS. No sun-
shine this weekend, just a lot of soggy
wet weather" 745
0900 WYFM 102.9 PA Sharon (ment. ShYoung-
stown in ID. 240
12 Ms
0120 KLIR 101.1 NE Columbus "and a look at
the KLIR weather stn forecast" 605
0337 WNOE 101.1 LA New Orleans "Country-101
36 WNOE-FM. You know that" 790/1005
/

BUB ZENT = 1835 Fruit Street = HUNTINGBON IN	467,00
AUGUST 1984	Haug od m-
l Es/Ms	AUG 28 Tr
0029 CIZLt 98.9 SA Regina "Zed-99"	2305 WSPY 107.1 IL Plano 155
(Ed: Zed is Zee in Canadian dialect,	2315 WKKD 95.9 IL Aurora 150
so you may be right-saul) KZVS:745	2318 WFNY 92.1 WI Racine 165
0407 KZVS 98.9 OK Oklahoma City "99FM, KZVS"	2321 WCAZ 92.1 IL Carthage PSA 295
6 Es (MUF at least 103.5, lots unIDs)	2353 WTXR 94.3 IL Chillicothe 1clad 210
1741 CIOSt 98.5 NF Stephenville	2359 WJKL 94.3 IL Elkin (IDs w/Schaumburg IL)155
11 Ms/Tr	29 Tr
0320 KZVS 98.9 OK OKC "99 FM KZVS. No sun-	200
	2206 WKAI 100.1 IL Macomb (full ID at 2228) 270
shine this weekend, just a lot of soggy	2208 WCCY 99.5 IL Quincy 310
wet weather ¹¹ 745	2214 WHOW 95.9 IL Clinton 195
0900 WYFM 102.9 PA Sharon (ment. ShYoung-	2231 KCFM 97.1 MO Florissant stn promo 300
stown in ID. 240	SEPTEMBER 1984
12 Ms	
0120 KLIR 101.1 NE Columbus "and a look at	1 Tr
the KLIR weather stn forecast" 605	0200 WCXL 89.5 OH Dayton ID, (moved from 89.3)
_ 0337 WNOE 101.1 LA New Orleans "Country-101	100
WNOE-FM. You know that" 790/1005	COMMENTS: Some nice Tropo ducting on August
	28-29 allowed me to log some rare class A sta-
->>	three my attended me on tog dome that offers in the

COMMENTS: I've been DXing FM for awhile now, but

this is my first report to the VUD. (Welcome to

ZENT contid

JULY 1984

0217 WCOZ 94.5 MA Boston r

Nov '84 NORTHERN FM DX (3)

-tions in the 150-300 mile range. Otherwise THERE'S NOT MUCH HAPPENING HERE. Hope things start to pick up a bit this fall. Hope everyone had a great summer. 73's, Bob.

	•
BOB SMOLAREK - RD # 1 Box 63 - Whitehouse S	station NV 08889 Carver TX-11 tuner bought Aug 15.
AUGUST 1984 27 Tr 0100 WHOM 94.9 NH MtWashington b 0138 CPMK 96.3 ON Kingston k 0140 WHUR 96.3 DC Wash. s (96.3 WQXR off) 0145 WTIC 96.5 CT Hartford r (o/WWDB) 0155 WWBF 105.7 MA Framingham	0219 WIOF 104.1 CT Waterbury "Magic" 0230 WEZF 92.9 VT Burlington b 0300 WLYQ 95.9 CT Norwalk "Q-96" 0305 WHCN 105.9 CT Hartford pr 1215 WCTS 91.9 MD Takoma Park
0200 WSRS 96.1 MA Worcester b 0201 WXJY 96.3 MA Nantucket "Joy 96"	0125 WERI 103.7 RI Westerly 0129 WENU 101.7 NY Hudson Falls 0131 WHTT 103.3 MA Boston (WPRB off)

COMMENTS: Monday morning of AUGUST 27 was my first taste of a good New England opening, and it cont'd into Tuesday morning. I have been working nights in AUGUST from 3-11 p.m., allowing me to stay up late and DX. I attended the convention at Jamestown and I want to thank Mike for all the food, station tours, and hospitality.

HARRY J. HAYES - 9 Henry Street - Wilkes Barre PA 18702 EDT

Finally some Tropo occurred last night; not much else noted all month, however. I'm expecting more Tr tonite, but it will have to wait, as I want to get this report in by deadline. (Ed: what deadline? Your report arrived over a week before I mailed this column. The only purpose for deadlines is for them to be missed. I've removed deadlines so everyone gets their reports in on time. Just keep in mind I mail towards the end of month. Staggered reports make for easier typing than getting 2346 reports in one day-saul). All credit should go to Mike Lapinski and wife for an excellent convention. Anyone who complains about anything couldn't have been there. Total now an even 700 FMs heard. (Ed: I may be pulling the pin out of a WTFDA grenade, but I assume that's 700 from Wilkes Barre, or one QTH or within the prescribed area?-saul) All DX here is from TROPO on AUGUST 27 1984:

```
0011 WOUR 96.9 NY Utica s-off
                                       150
                                            Olll CKQT 94.9 ON Oshawa weak w/CKAR-CKOT simul.
0038 WYYY 94.5 NY Syracuse "Y-94" softr 135
                                           0203 WLVY 94.3 NY Elmira fair 75mi.
0047 CFMK 96.3 ON Kingston exc. k "K 96" 220
                                           0205 CKBY 105.3 ON Ottawa mostly weak
                                                                                      300
and many "Summer-84" ads.
                                            0221 WYRK 106.5 NY Buffalo k WHLM off
                                                                                      200
0052 WCMF 96.5 NY Rochester good w/pr 180
```

ERNIE COOPER - 5 Anthony St. - Provincetown MA 02657

0113 WLIR 92.7 NY Garden City o/WOBM-NJ r

2 MS	such a good idea for it (more sons chan it) -se
	ll Tr(cont'd)
Oll4 WCVZ 92.7 OH Zanesville calls only	1615 WDAQ CT Danbury (Ed& I
0249 WLFJt 89.3 SC "WLF"& ph#"6696"	" WNOU CT Willimantic r "New-98" fergot fr
3 Tr	" WKJY NY Hempstead b "Joy-FM" heh!all
0127 WAWZ 99.1 NJ Zarephath g o/WPLR-CT	16 Tr
0212 WTSA 96.7 VT Brattleboro r	0145 WIP 106.3 NY MtKisco r lcl ads & psas
0952 WCFR 93.5 VT Springfield many lcl item	Ol46 WCTY 97.7 CT Norwich k said gives area
1210 WWON 106.3 RI Woonsocket ad fr WCN-TV	"good country"
(the Cable version)	17 Tr
<u>4 Tr</u>	OTTE LINE OF BUILDING
0129 WINQ 97.7 MA Winchendon u/WCAV, LarryK	ing 18 Tr
0135 CKMF 94.3 PQ Montreal r FF	0057 WLIR 92.7 NY Garden City r
<u>5 Tr</u>	0234 WFDU 89.1 NJ Teaneck r 850w Paul Mount I
0152 WRBB 104.9 MA Boston r (18.5 w. ERP)	19 Tr
0159 WIHS 104.9 CT Middletown g	0218 WSLT 106.3 NJ Ocean City m (also 22nd 014
0941 WPNH 100.1 NH 1cl nx, NBCnx at 1000	22 Tr
9 Tr	0211 WQBK 103.9 NY Renselaer r
0123 WORQ 102.3 CT Stonington ex-WFAN	0247 WWOM 100.9 NY Albany r plugged "5 hrs of
9 Es	solid gold Sat. night". (Ed: FM ATLAS lists a
1729 unID 89.5 Talk re Canada elections on	WWON, but look at 106.3 RI! I guess WWOM O.K.
"As It Happens", "coast-to-coast" on CBC	0307 WYUT 92.7 NY Herkimer MYL
radio. (Ed: I believe NPR in U.S. also	1007 WYBC 94.3 CT New Haven j
carries this; if Canada on Es (you sure?),	26 Tr
CBSM-ON & 2 NF stns if far enuf from you-s.	.) $\frac{20 \text{ T}}{0153 \text{ WAYU}}$ 93.9 ME Lewiston r
<u>ll</u> Tr	0219 CITE 102.7 PQ Sherbrooke rm EE&FF songs,
1130 WSNI 104.5 PA 1cl ads (PhillyErnie,	
Ja fergot to include municipal data; I have	11 41106 500 149
considered omitting it like in TV DX column	rs 27 Tr ns 1702 WTYD 100.9 CT NewLondon lcl nx, then b
but I wouldn't do so without an awful lot o	AT
member consensus; what thinks ye all? Write	3/ (more)

```
-the benefit would be the saving of space. I've
thought about it, but am not convinced it is
such a good idea for FM (more stns than TV)-saul)
11 Tr(cont'd)
1615 WDAQ CT Danbury
                                     (Ed...& I
     WNOU CT Willimantic r "New-98" fergot freq
     WKJY NY Hempstead b "Joy-FM"
                                     heh!all 98.3)
0145 WVIP 106.3 NY MtKisco r lcl ads & psas
0146 WCTY 97.7 CT Norwich k said gives area
"good country"
0115 WCME 96.7 ME Boothbay b
18 Tr
0057 WLIR 92.7 NY Carden City r
0234 WFDU 89.1 NJ Teaneck r 850w Paul Mount Land
0218 WSLT 106.3 NJ Ocean City m (also 22nd 0143)
22 Tr
0211 WQBK 103.9 NY Renselaer r
0247 WWOM 100.9 NY Albany r plugged "5 hrs of
 solid gold Sat. night". (Ed: FM ATLAS lists as
 WWON, but look at 106.3 RI! I guess WWOM O.K.?)
0307 WYUT 92.7 NY Herkimer MYL
1007 WYBC 94.3 CT New Haven j
26 Tr
0153 WAYU 93.9 ME Lewiston r
0219 CITE1 102.7 PQ Sherbrooke rm EE&FF songs,
 FF ancg "See-Tay"
```

0237 WIP 106.3 NY MtKisco bbscores lcl ads

0310 WHTG 106.3 NJ Eatontown m

1050 CHIM1103.5 PQ Val D'Or doing CBC FF

2240 WEMU 89.1 MI Ypsilanti address QTH ID

1004 CITE 107.3 PO Montreal b FF nx

deux virgule(comma)sept" bm FF

0048 WNYS 1C4.1 NY Buffalo ID r

0105 CFMX 103.1 ON Cobourg ID c

0020 WDCX 99.5 NY Buffalo "FM99" g ID

2215 WSIU 96.7 NY Canton //89.5 WJGT

2233 CIME 99.5 PO StAdele "Seem-MF" b FF

2300 CHIK 98.9 PQ Quebec City bm FF "Sheek" QTH

12 Tr A FIRST FOR ME!

2300 WGLE 90.7 OH Lima ID dual w/ WGTE Toledo

1000 CIRC 88.7 PQ Rouyn-Noranda "Circque" calls

1020 CBON- 90.7 ON Kapuskasing //96.5 CBC mono FF

2205 WDLM 89.3 IL East Moline g wx fr "Quad Cit-

1700 WCPN 90.3 OH Cleveland Has had OC for awhile.

1004 unID " tone, heard to this day I'm typ'g

1830 CHZM 100.0 ON Ottawa rp OC no IDs off 1857

(This turns out to be"Ottawa's new alternative"

a PIRATE radio station, here in the most conser-

vative of places. More in Mailbox, shortly. In\$

0012 CITEL 1027 PQ Sherbrooke "Cité-ain, cent-

rp QTH (Circque means Circus in FF, Ernie)

JULY 1984 cont'd 30 Tr 1002 WJLK 94.3 NJ Asbury Park r lclnx till 1831 31 Tr (w/WPJB-RI off for few minutes) 0219 WRDR 104.9 NJ Egg Harbor City pop oldies 0230 WRFM 105.1 NY New York City bm 0257 WEBE 107.9 CT Westport oldies AUGUST 1984 7 Tr 1029 WMWV 93.5 NH Conway //WBNC-AM-1050 w/m 8 Tr 0207 WKVT 92.7 VT Brattleboro //AM-1490 CBSnx and s-off afterwards 0219 WLYQ 95.9 CT Norwalk "The new Q96-FM" 1748 WPNH 100.1 NH Plymouth Boston bb plug & ads 9 Tr 1957 WSKG 89.3 NY Binghamton c u/WAMH-MA 10 Tr 0219 CIOO 100.1 NS Halifax r "See-100" 0242 WKGL 92.7 NY Middletown w/4-city ID as M'n. Newburgh, Beacon, & Foughkeepsie. 1909 WINH 98.3 NH Laconia r ads 10 Es (SKIP!) 1103 WPIO 89.3 FL Titusville g talk re graveside service (they b'cast 'em LIVE!!!?-saul) 11 Tr 0152 WPYX 106.1 NY (where?-saul) in briefly 0157 WGNY 103.1 NY Newburgh-Beacon r(calls changed fm WFMN 6 days ago on 5th per QSL) 12 Tr 0247 CIGB 102.3 PQ Trois Rivières m USoldies FF ancts. (try long dist. info or write using calls, FM, town, prov...-saul) 0934 WBGW 97.1 ME Bangor k lcl nx ads 13 Tr 0150 WDST 100.1 NY (Woodstock?) r T-Shirt came w/QSL (FM ATIAS says 102.3-saul) 0230 WDAQ 98.3 CT Danbury w/WNOU-CT SEPT. 11 Tr 0120 WDST 100.1 NY Woodstock r

0159 WVIP 106.3 NY MtKisco

02L8 WKGL 92.7 NY Middletown

15 Tr 0255 WKGL 92.7 NY Middletown "92-Rock-7" 22 Tr 0242 WOEQ 103.1 PA Freeland r 1st non-Philadelphia PA heard here. 23 Tr 0214 CIOO 100.1 NS Halifax exc. r asked for ph.calls; I obliged & got answer machine!! 0150 WHTZ 100.3 NJ Newark "Z-100" "Hit R." & Rock R." IDs Horrible mx 1126 WRTN 93.5 NY New Rochelle "Return R." b 28 Tr (Happy Birthday Ernie!) 0145 WRDR 104.9 NJ Egg Hbr City "All Nite Flight" show sponsored by LA Beer w"unforgettable mx" 0223 WDVR 98.3 NJ Ocean City w/WKJYNY, WNOU CT 0320 WSHU 91.1 CT Fairfield c 30 Tr 1951 WNYE 91.5 NY NYC r "You are tuned to the hottest spot on your FM dial, 91.5 FM" 31 Tr 0227 CITE1 102.7 PQ Sherbrooke FF r SEPTEMBER 1984 3 Tr /WBOS OFF/ 0202 WEZF 92.9 VT Burlington exc. 0138 WCVR 102.3 VT Randolph k 5 Tr (2 MI my longest TROPO ever) 0111 WYUT 92.7 NY Herkimer MYL 0246 WLLZ 98.7 MI Detroit "Wheels" r 0259 WUGN 99.7 MI Midland g in fr 7 mins

SOME ADDITIONAL LOCGINGS BY ERNIE:

0306 WSHU 91.1 CT Fairfield w/same prgm as WRIU-90.3-RI!!! 1825 CITEL 102.7 PQ Sherbrooke m EE & FF music but ancts all in oui-oui. (Ed: Oui-oui in FF means urine; oui means yes, but the double "oui" does not. - Ernie's language teacher)

Your editor in Toronto during ANARC convention, a rare chance to DX there EDT ALL JULY 22 Tr At the Ramada Renaissance Hotel, site of convention: 1200 WDTR 90.9 MI Detroit Detroit Public Schools station, ID, QTH. 1201 WCMCt 90.1 NY Greece SS Latin music; Prob. them, I've had them at it since. 1201 WCPN 90.3 OH Cleveland Open Carrier, same as up at B.R. Got to be them. On top of Scarborough Bluffs, these high cliffs jutting into Lake Ontario, facing South: 1904 WWSE 93.3 NY Jamestown ad QTH 1815 WCMC 90.1 NY Greece ID QTH 1907 WZPR 100.3 PA Meadville ID k 1848 WHOT 101.1 OH Youngstown "HotFM 101" 1912 WAMO 105.9 PA Pittsburgh sj PSA QTH 1859 WOUQ 90.5 PA Pittsburgh mx from India DX in car at Bluffs with Mike Reid and ID and QTH so it's not Bombay on 90.5! Doug Lee (not WTFDA member - yet!) 1900 WOED 89.3 PA Pittsburgh live c mx ID 1901 WKSU 89.7 OH Kent ID TC "A simple gift"prgm THIS SITE IS INCREDIBLE, WILL TRY SOON AGAIN! Your editor finishes up in BURNT RIVER, 80 air mi, NE of Toronto EDT Sony TFM-1102 30'tower

AUGUST 1984 0710 WJPD 92.3 MI Ishpeming QTH 16 Tr (DUCTING, FOLKS) 2038 CBON-104.9 ON Gogama FF CBC mono 2041 WNMU 90.1 MI Marquette ment 102.7, ID, c NPR 2047 KZIO 102.5 WI Superior r "Hit Radio KZIO"

2106 WCEN 94.5 MI MtPleasant QTH wx

2107 WLHT 95.7 MI Marqutte g QTH 2109 CBLJ 88.3 ON Wawa //105.9, 89.5...

2124 WUPD 92.3 MI Ishpeming ID QTH k 2126 CBON- 88.1 ON Sault Ste, Marie CBC FF mono 2140 WGLQ 97.1 MI Escanaba r "The Q" & "97-GLQ" & "FM-97" QTH 2300 WOJB 88.9 WI Hayward j NPR IDs ALSO SAID TO WATCH OUT FOR LOWSFLYING ANTENNAS & TO DEST-ROY YOUR TV BEFORE IT DESTROYS YOU! 2355 CBON- 89.3 ON THUNDER BAY //88.1 17 Tr (DUCTING CONTINUES) 0000 CJSD 94.3 ON THUNDER BAY - "Broadcast News" report (Canada agency) and "94-FM"

17 Tr(ducting ends) MA29 unID 88.3 FF I doubt stn in PQ as I don't think it on air yet. 0036 WYKX 104.7 MI Escanaba "KX-104" k "Kicks-Country" weather 0639 WHAD 90.7 WI Delafield calls, WI Pub 1055 CBLJ 88.3 ON Wawa CBC mono EE //105.9 Radio, Morning Edition prem (NPR) QTH 1812 CBF 100.7 PQ Montreal CBC \$ FF 1831 WPEL 96.5 PA Montrose ID OTH 22 Tr 2100 WRDL 88.9 OH Ashland ID QTH address 2301 WVPE 88.1 IN Elkhart ID j 27 Tr

CHERNOS cont'd

r and mentioned a student TV stn there on CHANNEL 2 !!!!! (Cable?)

now has some tone, so I guess I'll count it. As I type, Ihave already heard they began prome carlier in Sept, so this all makes sense, plus direction of rotor. ALSO: 27 AUG AU: 1900 WBLV 90.3 MI Twin Lk ID QTH; 1901 WVTF 89.1 VA Roanoke ID WX.

Chernos at school in OTTAWA ON (all mail still to Toronto for column) EDT Sony CF-570

1eg#

new receiver to my collection. This one includes a tape-deck, so now I can tape my DX; it man't got a jack for rotor/antenna so not sure what will do; I may not be back at Burnt River . and ay. opting for city-life next summer. The rowr strikes me as good; as good as when my TFM had it's rabbitears intact (I left the radio on the floor one day and foolishly (not soberly) magged my feet over it and snapped the ears off, partly.) Enuf. my OTTAWA FM DX: (& NEARHY):

MIST 1984 the still in NY STATE on way to Ott. from WTFDA conv. I had tons of CBCs FF on FM with high MUF. I assed Tr & ignored it; the only positive is the following and it is close to were I was, to boot: 30 approx CBVG 88.5 PQ Gaspé CBC EE next is from just out of Ottawa, nr motville ON:

D approx KUMR 88.5 MO Rolla w/QTH UST 1984 in OTTAWA: D WJGT 89.5 NY Canton exc..new stn

WAER 88.3 NY Syracuse "FM-88" j blues TEMBER 1984

WGFB 99.9 NY Plattsburgh r "B-100"

23 Tr 0030 WEZF 92.9 VT Burlington ID QTH wx mb PSAs WPS 107.9 VT Burlington NPR c "VT Pub.R 0040 WGFB 99.9 NY Plattsburgh "B-100" CBS nx wxr 16 CBM 93.5 PQ Montreal //103.3 CBC \$ EE (0058 unID 107.9 Strong carrier in \$ on & off??????

22 Tr

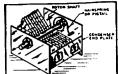
solved an unID at B.R. of June 12. I've now had the stn I suspected to be VI on 97.1. spoke to the ancr and told him about the DJ I heard with a slow paced voice, and he said es, that's Bob for sure". He also said the RKO nx and r format and local news fit their n. <u>FM ATLAS</u> does <u>not</u> list 'em as RKO. VT is a new state for me. The stn's WRUT Rutland. the late fall Tropo is good. 73s and send reports to TORONTO - Saul.

C: THE MASTHEAD IS NOT PERMANENT, I want to see how some sizes look, before I design a one. All wTFDAers invited to send masthead designs as well. No prizes.

FM 92 CFTI

TELEMEDIA ONTARIO INC., CFTI-FM 92 RADIO 155 PINE ST. SOUTH, BOX 1046, TIMMINS, ONT., P4N 7H8





TECHNICAL TOPICS

PART I: Everything you wanted to know about selectivity!

Let's say the atmosphere is stiling pleasantly over your let and the troposphere is directing many radio signals to your antenna. Somenow, you find out about this and sit down to tune in some DX. To your happiness, you find some new and distant proadcasters on the dial. There is a local PM station, though, World 93.1 with a tower only ten miles away. You contentedly log stations on 92.3 and 93.9, but know that there is also a proadcaster on 92.9 that you cannot tune in page of World. And therein lies the story of selectivity, that quality of a radio/IV receiver which seems to only get the attention it deserves at the wrong times.

First of all, I wish to define "sensitivity" for once and for all so that it will not have to be brought up again in this discussion. Sensitivity is the "signal-pulling" capacility of a receiver. More formally, it is the amount of signal (a measurable quantity in μ^{ν}) required at the antenna terminals to produce an output into the audio stage at a defined level above noise.

The agility or discrimination (or, could we say, dexterity) of a tuner is selectivity—the measured degree to which a tuner can be set to one frequency and reject all others. If the DK'er above was unable to tune to 92.9 MHz simply recause NYRM was transmitting on 93.1, one could conclude that the DK'er's rx had less than desirable selectivity in that case.

Imagine now a tuned birouit made up of some combination of resistors, capabitors, and industors, and further imagine that said dirouit represents your tuner (which it does.) You know that if an 40 voltage is

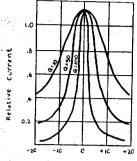
unplied to the pinuit as shown, part of it will be delivered to the voltmeter absorbly to the diagram below. X is the reactable, or the "imaginary" part of the opposition to current flow. (The real part is resistance.) Reactance charts have been worked out and can be found in many books. Working in the frequency domain (to avoid math), $X_i = j\omega L$ and $X_i = 1/j\omega C$, with $\omega = 2\pi f$ where f is frequency in Hertz. These expressions have been derived over and over again by thousands of electrical engineering students after learning their calculus and consuming enough pizza.

The point of all this is that the amount of current a tuned circuit will pass depends on the frequency of the AD source. For any of these circuits, one frequency will be found such that the reactance of the capacitor and the reactance of the inductor will bandel ($\chi_{\rm e}-\chi_{\rm c}$) each other out and the apparent presence of these parts in the circuit will disappear. This results in maximum current flow, and the circuit is said to be at resonance. That frequency is the resonant frequency, and is given by $f=1/2\pi\sqrt{LG}$.

 $V_{OUT} = I \left[\frac{1}{R} + \frac{1}{X_c} + \frac{1}{X_c} \right]^{-1}$ $AC = \int_{SCUPCCP} AC$



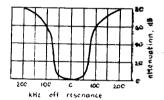
If one adjusts the frequency of the signal generator to either side of the resonant frequency, and takes measurements in the process, and then plots them, one produces a graph that looks remarkably sim-



per cent change from resonant frequency ilar to the one here to the left. Ine degree to which the curve is "pointy" is determined by the ratio of reactance to resistance, or "2" (figure of merit). 2 is the ratio of reactance X to resistance R. 2= K/R If the curve decreases slowly from its peak, it is said to be broad, but if it decreases rapidly, it is snarp. The terms broad (or wide) and sharp (or narrow), consequentally, describe the action of the tuned circuit--selectivity!

Imagine, now, the 40 voltage source replaced by an antenna, and now we have arrived at a radio tuner! Of source, one throws in a detector and amplifies the result, as well. The end result is something like a tunable noting filter, that is, a circuit which passes, detects, and amplifies only the frequency desired, and excludes all else. Phus, the graph below:

At this point, it is necessary to introduce bandwidth. The bandwidth is, literally, the width of the response curve (at right) at certain degree of off-resonance attenuation. Remember that every proadcast channel is actually the center of a band whose width depends on the nature of the information transmitted. (An EM channel, for example, is allotted 75 kHz on either side of center, thus permitting all stereo information up to 15kHz to be aired.) One can specify selectivity either in terms of bandwidth or in terms of attenuation. In the

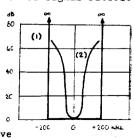


width or in terms of attenuation. In the former case, the graph shows a "60dB bandwidth" of 100kHz. Communications and SW receivers are often spec'd this way. However, IV and FM broadcasters have fixed space allocations in the frequency spectrum. Thus, we can agree that all FW receivers should be rated on their ability to tune a signal 100kHz wide and reject all others outside this

range. The graph would, therefore, indicate a selectivity of 60iB. Wi-Fi tuners are usually rated by alternate chancel selectivity, which is the degree of attenuation at a 400kHz bandwidth. In the graph above, the 400kHz selectivity is 80 dB.

Allow me to put this all into perspective. Say radio station NORM is 1 mile away and emits a signal with enough power to beliver 10,000 % to the antenna terminals of your rx. NORM is at 93.1 MHz. Another station, NORM, is at 92.9, and has the same power as NORM, out is 100 miles away. Using the inverse square wave law (or FCC curves) we find that NORM delivers 6 V of signal to your antenna terminals. If your tuner is tuned to 92.9MHz, the ratio of the off-resonance signal voltage (NORM) to the at-resonance signal voltage (NORM) is 10,000/6. or 1,667. Taking the log, and multiplying by 20, we get 64d8! Inus, tuners really do deal with such high adjacent-channel signal ratios.

One last point: it is not enough to simply design a tuner to have as high a selectivity 80 as possible. The ideal, perfect tuner would perform as (1) in the graph at right. This is, of course, impossible! But, we could design a tuner with such high selectivity (2) that it would never suffer from adjacent channel interference, but would exclude (or attenuate) some of the desired information. A collectly, a compromise is in order, and next time we will explore the economics of such tradeoffs (DY'er versus aud/vid enthusiast), the mechanics of tuner design, and now to improve receiver selectivity. Also, lots of actual specs!



PH TO-NEWS David J. Nieman 12284 Nice Road Akron, NY 14001

November 1984

POLLUTION COUNT

DOWNTOWN

150

N. BIRMINGHAM

205

FATRFIELD

148

I FEDS

166

WBMG-42 Birmingham AL 645 mile tropo from Sept. 11, 1980 (CP)



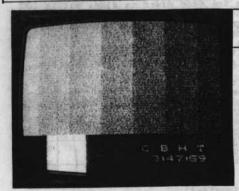
WITN-7 Washington NC 535 mile tropo from Aug. 6, 1984 (BT)



WCSC-5 Charlestown SC 304 mile tropo from May 8, 1984



KOTI-2 Klamath Falls OR 1170 mi. E-skip from Oct. 14, 1983



CBHT 1-12 Liverpool NS 360 mile tropo from Sep. 10, 1984 ERP .970 KW

This months photos are from:

Paul Gaines (CP) Detroit MI Bob Timmerman (BT) Orlando PL John Combs (JC) Orlando FL Jim Pizzi (JP) Lovington NM Roy Barstow (RB) Teaticket MA

WORLDWIDE TV-FM DX ASSOCIATION

1984 CONVENTION



REPORT

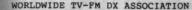
For the second year in a row, the Worldwide TV-FM DX Association's meeting took place in Western New York State's mountainous Chautauqua region, one of the most interesting areas for VHF/UHF DXing in the eastern U.S. Long considered to be the best part of New York for catching those long-haul tropo openings into the Midwest and mid-South, Chautauqua County managed to live up to it's reputation!

More than 30 avid DX enthusiasts showed up at the event, held at Mike Lapinski's sprawling estate, on a beautiful piece of hilltop property just outside of Jamestown. Mike may have what can be described as the ultimate DXing location for any TV/FM DX enthusiast in his part of the world. The DX antenna systems in operation were part of the most elaborate antenna set-up ever demonstrated for attendees of a WTFDA convention. What could be seen and heard there under "normal" conditions were generally considered to be "good DX" to those of us unfortunate souls who live in the flatlands!

Pollowing the early arrivals of WTFDAers on Thursday evening and Friday morning (August 3rd), the group met during the afternoon for the trip to Erie, PA, just across the state line, for a tour of the facilities of WJET-24, an ABC affiliate. Erie member Frank Wheeler, unable to go to Jamestown due to a busy schedule that weekend, was only able to meet with the group while the tour was conducted, so you might say he was at least with us in spirit when the gang returned to Jamestown (maybe next year Frank?).

Friday evening was the traditional gabfest, and featured a cookout. As more DXers continued to arrive, tropo DX conditions were noted to be slowly building up. During the evening, a ground fog (not uncommon in those hills) settled in, as did signs of many UHF TV stations from a 200 12 to 300 mile radius.

Latin Latin



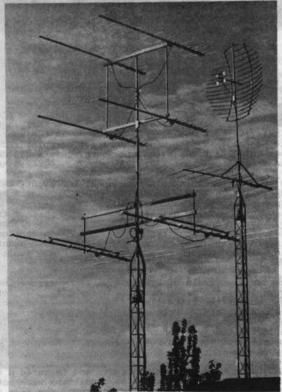


ABOVE: (LEFT & RIGHT) Some of the group during a gab session.

BELOW: Part of Mike Lapinski's super DX antenna set-up. Not shown is a lower mounted 7 foot Channel Master UHF dish with EU4-S preamp, and another site!

(DAVE NIEMAN PHOTOS)

OPPOSITE PAGE: (LOWER LEFT) The "parking lot"; the van in the middle is Bob Seybold's "DXmobile," complete with battery powered TV and 4-bay. (LOWER RIGHT) That's club supply manager Mike Ehrhardt watching some video through a Teknika.



how hills seried in, as did signs of sany buff to exactons true a

Saturday, August 4th, was the busiest day for the attendees. Tours were conducted of Jamestown's Group-W Cable TV headend site, a crowded and busy little building that reminded us of the DX shacks of a few of the more famous TV DX enthusiasts. The studio and transmitter facilities of the area's two major local radio stations, WJTN-1240 and WWSE 93.3 were also on the tour, and the great people at WJTN/WWSE were especially friendly. The WWSE tower was a beauty, also housing the antenna of the local ETV translator, Jamestown's W26AA. Many members got their first close-up look at a 1 kw UHF TV translator set up. At the time, the transmitter was mysteriously off the air. The fact that a bunch of avid DXers were in town and actively checking for DX right nearby was only a coincidence. Or was it ...?

The group got together late in the afternoon back at the Lapinski's, and a complete catered buffet meal was served under a large tent outside. There was a lot of food--and it was fantastic. We'd have to say that Mike really outdid most all previous convention hosts. The refreshments were first rate and there were sure lots of them!

The after-dinner talks that followed were most interesting. FCC PM NEWS editor Bruce Elving gave a talk on his just-completed 9th edition FM ATLAS, which was really "hot off the press" -- he stopped along the way at his Michigan printer to pick up a load of the books. Needless to say, most attendees couldn't wait to get a look at the new edition, as delivered by the author himself!

Bruce's talk, which centered on the changing formats of FM stations and how he was handling them in his book, was followed by a most interesting technical gab session conducted by a favorite speaker at WTFDA conventions, broadcast engineering expert Joe Gragg. Joe touched on several topics of interest, and shed some interesting light on the subjects of RF noise figures and the auroral DX phenomenon. His blackboard "chalk talk" with an electric hair dryer (you read it right -- an electric hair dryer) was hilarious, and not to be forgotten. We can't quite describe it--you had to be there. Rumor has it that Joe may patent his "magic blackboard" for use in Central American areas with high humidity (it won't replace educational TV though!).

Through the evening, the DXers had a chance to view some DX videotapes; some of the most interesting were brought along by Patrick Durkin and Glenn Jacobs. Tom Yingling's home computer was on view for those interested in seeing how useful the microprocessor is becoming to the DXer. The consumer electronics industry's best all-channel TV tuner-converter, the new Teknika 6510, was on display and a working part of our host's DX system, and it really is a gem, performing exceptionally well on the weaker UHF translator signals that surround the Chautauqua area.

(DAVE NIEMAN PHOTOS)



To help demonstrate what kind of a difference height can make for UHF TV DXing, Mike even had another DX system over 700 feet away at the entrance to his driveway—and this system was complete with a 7' parabolic UHF dish and Winegard's super low—noise PA-4975 preamp. It was rather hard to get veteran TV DXer Bob Seybold away from this site; he kept busy identifying quite a few Midwestern UHF TV stations via tropo. Stations out as far as Chicago (over 400 miles) were noted there in the morning.

One of the biggest surprises to those attending this year's gettogether was Mike's goal of logging 140 or more TV signals from his hill during the convention. Incredibly, it didn't take very long. One DXer even gave up trying to keep count of what was being seen when it reached about 150. This was "only" with mild tropo conditions! On FM, the hill was pretty much "co-channel city" with a single Channel Master Stereo Probe 9. One check of the VHF public service bands from this location showed why it has such a good reputation among VHF amateur radio operators.

Sunday morning, August 5th, consisted of the traditional WTFDA club business discussion. This year, the news from WTFDA HQ was very good. Membership has been growing quite rapidly, rebounding from the slump of the past few years. Club finances are in very good shape, and member participation has also increased dramatically. On this upbeat note, the main activities of the 1984 WTFDA Convention came to a close.

On behalf of club HQ and everyone in attendance, we'd like to extend our thanks to Mike Lapinski for a superb hosting job. He has set a standard that may be hard for future club convention hosts to match, and put on a very enjoyable program-even including a look at some live DX, something which is not always possible to fit into a DX club gathering. A big thanks is due also to Mike's wife, Fran, for putting up with over thirty visitors who share her husband's VHF/UHF DXing hobby. Both Fran and Mike are busy medical professionals, and we were amazed that they were able to find the time and patience to host our gettogether at their home.

Other individuals who helped make the club convention a success were Mr. and Mrs. Glenn Jacobs, who helped mind the site, and of course, WTFDAer Tony Pilato, who made the AM/FM station tours possible (and showed us a really effective way to identify DX on channel 26!). Thanks also go to Doug Dornbos, (who was unable to attend--but was there in spirit, anyway) for providing the hard-to-find equipment for sale to anyone interested. Also, thanks to those who we've forgotten to mention, both WTFDAers and non-WTFDAers alike, who assisted with the program.

As a result of this convention, we welcomed new members Tony Pilato, Chief Engineer of WJTN/WWSE, Jamestown, NY; Greg Snow, Fredonia, NY; and Bob Smolarek, Whitehouse Station NJ to the WTFDA membership. It's great to have you all in the ranks of the WTFDA membership!

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