

John Zondlo 1802 N. Rockwell, #107 Bethany, OK 73008 (405) 787-3717 Deadline: 5th

New Members: Robert DeMers Edward Huber Paul Kinnaly, Jr. Rick Matthew R. Thomas McGregor

Ronald Purdue

P.O. Box 40106 104 W. Nippon St. 77 Booth Road 2972 W. 2nd Ave. 1405 E. Vegas Valley, Suite 189 Route 1, Box 224 Portland, OR 97240 Philadelphia, PA 19119 Dedham, MA 02026 Vancouver, BC V6K 1K4 Las Vegas, NV 89109

Byron, MN 55920

Renewals:

Mike Bugaj, Robert Grant, Dave Hascall, Glenn Hauser, Jim Korn, Kurt Nelson, William C. Palmer, Edward Sirovy, Ralph Strobel, Rich Turcsany, John Walters, Dave and Paul Wardell, Larry Weil, David Wilson, Jim White.

Rejoin:

Artie Bigley-3300 Murworth, #110-Houston, TX 77027

Address Changes:

Saul Chernos-c/o Carleton University Residence-1233 Colonel By Drive-Ottawa. ON KIS 5B7

David Legler-346 E. Wadsworth Hall-Houghton, MI 49931 David Riley-19444 Imperial Highway-Redford, MI 48240 Morris Sorensen-113 Trayborn Drive-Richmond Hill, ON L4C 4K6 Jim Stiles-CFAO/NAFK-Box SU/IR ADP-FPO Seattle, WA 98770

Renewals Due in November:

B.W. Battin, Albert J. Bernard, G. Cranston Bonnell, Dr. James Condon, Bill Fahber, Robert Fischer, John Foster, Jr., Robert Foxworth, Richard Hawkins, John Jefferson, Michael Koronka, Ed Kowalski, Deane McIntyre, Dave Pomeroy, Lee Frescott, Marvin Shults, L. Vehorn, Tom Yingling.

Leading off the intros this month is PAUL KINNALY, JR. His DX gear includes a Sony STR-V55 receiver, an Archer 6 element antenna and an Archer rotor at 20' for FM, a Sony KV-1212 Color TV, RCA VHF-UHF antenna and an Alliance rotor at 30' for TV, and a Bearcat 250 with a Channel Master multiband dipole at 25' for PSB. Paul is also a member of NASWA and RCMA, and has several calls: WDX1PK (HF), KMA1PK (VHF), and KEQ2383 (CB). He writes, "In all honesty, my days as a DXer are pretty much over. I guess the best description would be a listener. I'm fascinated by radio and TV. While I enjoy taking advantage of good DX opportunities when they come around, rarely will I specifically set out to spend a night (or day) DXing. I have QSLed more than 90 SWBC stations in over 75 countries; while I haven't OSLed other services. I've logged FM stations in all New England states plus several others. and PSB stations in about 25 states. I also enjoy video recording and. if I ever do any serious TV DXing, intend to videotape any results, just as I audiotape my radio catches. Located as I am just 4 miles from the bulk of Boston's many TV and FM transmitters, DXing is a real challenge!" Next up is new member RICK MATTHEW. He's a 32 year old technician who also belongs to SPEEDX, ASWLC, NASWA, CANDX, CIDX, SDXC and RCMA. Rick's gear includes a Bearcat 220 and a Bearcat 250.

Wrapping it up this month is RONALD PURDUE. He writes, "My first owned TV set was an RCA 15" used B&W back in 1966. It had no UHF tuner. My parents bought a big RCA 25" color TV in 1968 that first had UHF, and in January of 1969. I succeeded in pulling in my very first UHF station, WMTV 15 Madison WI. Through the years I kept on buying better and better equipment. My present equipment includes an Archer VU-120 and an Archer stereo supreme FM antenna. I use a JC Penney 5" portable B&W TV and a 1973 RCA 16" color TV. I also have a Realistic Modulaire-8 stereo system. Within a year I hope to trade the RCA color model in for a new 1982 RCA color model and put up a Winegard all channel TV preamp. I am hoping to be the best DXer in southeast Minnesota!"

Tidbits.....

As you read this, our dues stand at S15 per year. The reason for the increase is simple: it costs us more to prepare the VUD and send it to you. At present, the average VUD costs 68c to print. Add to this the present two ounce postage rate, 35¢, and you have a total cost of \$1.03 per issue, or \$12.36 per year. Now, while the postal rate commission has put a temporary halt to a postage rate increase, it is inevitable that the rates will go up. As you recall, the last request was for 20c first class. This would amount to a two ounce rate of 39c, or a 4c per issue increase. This would add 48¢ more to the cost of VUD mailing. Printing rates are also always subject to increase. Hence, the board saw the necessity for a dues increase, hopefully the last for a long time. The increase will give us a hedge against cost increases in the near future, and help build up the club bank account, which was almost totally expended to pay for the printing of the latest TV Station Guide. We have cut corners to reduce expenses. As you've noticed, the VUD is now printed on thinner paper, to allow us to send you more pages at the two ounce rate. We've not sent out an IRCA/NRC mailing this year, which saves around \$75. Three former board members, all of whom were performing other duties for the club since leaving the board, will be required to pay the editor's rate effective the first of the year (they were receiving a free membership). Editors will bear the full brunt of this increase, with their dues going up \$2 to \$12 per year. The dues for foreign members will also go up, as their postage rates have gone up markedly. At present, the board is considering a proposal to move the publishing and mailing to another city to cut expenses and speed up mailing out of the VUD. Dues have not gone up in over two years, and hopefully won't go up for quite a while. Our club is not alone in this problem. If you belong to other clubs, you'll see they have the same problem. We hope you'll bear with us as we try to keep costs down and improve service.

Speaking of service, I must admit, I really blew it. I've had a report from Robert Grant hiding in my apartment for quite a while. My sincere apologies, Robert. It's a bit old, so you'll have to get out your back issues to look up some of the stuff: "I have received my February 1981 VUD, and I would like to comment on Technical Topics' notes on stations running color bar patterns. Many stations don't bother to superimpose their identification over their color bars. First of all, the FCC requires some form of ID on the hour, testing or not (this is usually done on audio if the station is not supering an ID, real lot of help for a MS burst, hi). To any TV station engineers: if your station doesn't super an ID over their CB pattern, ask the boss if you can run an ID! I also thought that Bill Fahber's report on station offsets was very interesting (page 3). Now, if we could use digital frequency meters in our TV sets and get the FCC to enforce a single. exact, exclusive frequency for every station (i.e., WPIX at EXACTLY 199.259637 MHz and NO other station at that same frequency), we'd really

have something." Next up, we have some comments from member Bill Fahber: "One member recently expressed hope that the popularized 'Jupiter Effect' would produce more auroral DXing, and perhaps others are looking forward to this event also. I mean no offense to that member, but a few points need to be mentioned about that theory. First, most scientists rejected the theory, equating it with Erich Von Daniken and Immanuel Velikovskv. Second, there will be no perfect alignment, as many were led to believe. In June 1982, all the planets except Venus will cover a 65 degree span as seen from the sun, but that's the closest there will be to any alignment. Third, the two scientists who dreamed up this cute doomsday theory have since then discarded it when their predictions of the earliest effects failed to occur. As of yet, I don't think they offered to refund any money to those who bought the books."

Rich Turcsany gives us some info on TV in his area: "WWAC-53(+) in Atlantic City is on. Station is an indie and also covers entertainment from the casinos, as well as other goings on in Atlantic City. Also on the air in South Jersey is WRBV-65(-) Vineland, with professional news coverage and STV from WHT (of WWHT fame). No sign of WCQR-50, WNUV-54. or WSTG-64 yet. Locally, WEDW-49 Bridgeport is operating at low power while they are installing a new transmitter and antenna. New ERP will be 2,000 kw."

Next month, we'll have comments by John Sulak and an opinion on the proposal to count call letter changes. See y'all next month....73.....jz



Bill Fahher 336 Atlantic Street Bridgeton, New Jersey, 08302

THE FCC'S BATTLE AGAINST THE UHF HANDICAP

Since the beginning of UHF television in the early fifties, there has been a persistent lack of acceptance by the general public which has come to be known as the "UHF HANDI-CAP." In the early sixties the FCC did a study to see if UHF signals could be received in dense urban areas and surrounding suburbs. After targeting the New York City area, the FCC came to the conclusion that UHF reception could be just as adequate as VHF; and vet UHF handicap persisted.

In 1978, Congress directed the FCC to see what could be done to improve UHF reception, and the "UHF Comparability Task Force" was established. Having studied the results of the New York project, the Task Force concluded that there's nothing wrong with the UHF stations: The signals are out there, but power of a broadcast station could cause a are not being received as well as they should.

THREE SOURCES OF UHF HANDICAP The Task Force then called on the famous Louis Harris & Associates to do a survey on

UHF-VHF reception. The survey uncovered not

one, but three basic handicaps: programming, channel selection, and picture quality. PROGRAMMING: Before UHF came into existence, the three major commercial networks had pretty good coverage across the nation on the VHF spectrum. With the advent of UHF, a few additional network affiliates were established in fringe areas that could not already receive the networks. Other UHF stations were built in urban areas where they could survive as independent stations. The Lou Harris poll discovered that in areas where UHF stations were affiliates of the major networks, there was no problem with UHF reception by the public. CHANNEL SELECTION: Believe it or not, Americans are lazy. Networks are aware of this and often schedule their best rated programs early in the evening, knowing that viewers often just sit down and watch whatever comes on next. One station on a higher UHF channel went through the trouble of petitioning the FCC to assign a lower channel to the same city, so that it could change channels and move in closer to the other stations on the channel selector. It seemed that many viewers felt that the extra turn of the wrist was too much trouble to tune in the higher station. With these thoughts in mind, tested were superior or inferior to the you can see the significance of the ease with which UHF stations can be tuned. In the

Harris poll, 47% of those questioned felt

no difference, and only 3% thought UHF was

that VHF tuning is easier than UHF, 33% felt

easier to tune.

PICTURE QUALITY: The most significant finding of the Harris survey is in this area. In communities where VHF and UHF were both available, only 73% could receive UHF, and of that 73%, less than half could receive a decent picture, apparently a major contradiction to the results of the New York study, The conclusion of the Harris survey was this: the UHF handicap exists because "Members of the public have not installed adequate receiving antenna systems for good UHF reception."

SOLUTION TO THE UHF HANDICAP

In the past, UHF handicap had been fought by increasing the power of UHF stations and the sensitivity of television receivers. According to the Task Force, doubling the 3 dB improvement in signal strength, but by improving the receiving system a gain of 15 to 30 dB can be achieved.

In 1959, the Television Allocation Study Organization (TASO) developed a grading system to rate picture quality into six grades:

Excellent 41 dB or more Fine 33 to 41 dB Passable 28 to 33 dB Marginal 23 to 28 dB Inferior 17 to 23 dB Unusable less than 17 dB

a 6 dB gain in signal strength will raise the picture quality one TASO grade, approximately. Thus we can see the potential to be gained in picture quality by improving a poor antenna system.

The Task Force also studied a large amount of equipment already on the market, as well as review a study by Public Broadcasting Systems on some equipment. The July, 1981 issue of Radio-Electronics contained an article by Dennis C. Brown entitled "How to Improve UHF Reception," in which he reported on a study of performance of equipment on the market. The study was done for the FCC by Georgia Tech. The report deliberately omitted brand names, but Mr. Brown was able to get that information from the FCC Office of Plans and Policy because of the Freedom of Information Act. He cautions, however, that the purpose of the Georgia Tech study was to study various types of equipment, not to compare brand names, and that no efforts were made to determine if any of the samples they average for that particular model. But the article does give excellent guidelines for assembling a top-rate UHF receiving system, and no doubt the results of the study are fairly reliable.

IMPROVEMENT OF SIGNAL RECEPTION

The Task Force report makes suggestions for improvement in three basic areas: Receiving antenna systems, the television receiver, and transmission systems. RECEIVING ANTENNA SYSTEMS: The Task Force has come up with six distinct recommendations for below. Then there's the new type of TV set improving UHF reception: (1) An outdoor antenna is more likely to provide better picture quality than an indoor antenna; (2) Separate UHF and VHF antennas can provide better performance than a combined UHF-VHF antenna; (3) Four-bay and eight-bay bowtie antennas provide good performance at low cost. (In fact, the Radio-Electronics article showed one particular model four-bay to be almost as good as the six-foot dish!) The two-bay bowtie is good for an indoor antenna. The bowties are exceptions to the concept that performance and cost are directly proportional; (4) Antennas should be installed after "probing" for the best receiving location, since signal strength can vary significantly over very short distances. (I would also like to mention here that there shielded cable for VHF inside the set, but could be seasonal variations also; trees may cause no problems in the winter, but the leaves can drastically reduce signal strength connector be used, but does think that whatin the summer); (5) Shielded cable (either coaxial or shielded twin-lead) is much better UHF. than conventional twin-lead. Baluns should be used when connected to the set; (6) Preamps will improve signal strength, but could also cause interference.

THE TELEVISION RECEIVER: The Task Force proposed new rules and amendments to existing rules to cover such aspects of the television receiver as weak signal performance, channel selection, all-channel requirements, and VHF-UHF equality regulations: (1) Weak Signal Performance: As UHF noise levels in a receiver are reduced, sensitivity to weak signals tends to increase. The average receiver previously had a 12 dB noise level, but newe receivers average 9 dB to meet tougher FCC standards. When stricter standards take effect in 1982, the noise levels should become less, and sensitivity should increase But because noise level is not an accurate measure of weak-signal sensitivity, the Task Force recommends that a more reliable means of measurement be developed. Texas Instruments developed a receiver which was much more immune to "UHF taboo" interference (the type of interference described in the "New Kid in Town" article in the June, 1981 VUD, in the paragraph headed "minimum mileage separation), but the noise levels were too high. RF Monolithics is continuing the project with a receiver designed with electronic tuning, resistance to interference, low noise figure, and good weak-signal performance. (2) Channel Selection: The Task Force made a few recommendations already, but is not yet ready for more comprehensive recommendations until more studies of existing appliances are completed. The Task Force suggests that channel readout on VHF and UHF be equally legible, and that the tuning

controls be comparable in size, location and accessibility. (3) All-Channel Requirements: The Task Force suggests that Manufacturers no longer be required to include channels 70-83, since no broadcast stations use these channels, and translators on these channels are gradually moving to ch. 69 or every Dx'er should be without: the set with twelve VHF buttons and six channel-preselected UHF buttons, or the set with twelve buttons set to preselected channels. Although such sets are a handicap in areas with seven or more UHF stations, the Task Force is as yet cautious to condemn such a setup, since it does offer equal UHF and VHF tuning ease. The matter is still under study. (4) Equality Regulations: Some regulations of this sort already exist. A set containing a built-in VHF antenna must also include a UHF antenna. Remote control sets must be geared for both VHF and UHF remote selection. But some sets were found to supply coaxial connectors for VHF but not for UHF, and some sets use coaxial or not for UHF. The Task Force is not recommending that any particular type of cable or ever is used for VHF should also be used for

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TRANSMISSION SYSTEMS: Many UHF stations operate well below maximum power (5000 kw, visual) simply because it's not economically feasible to increase their power. The Task Force is looking into improvements that will reduce transmitting costs and thus act as an incentive for broadcasters to increase power. PBS has been experimenting with a modulating anode pulser, which can improve transmitter efficiency. The Task Force has been looking into a multi-element depressed collector (MDC) which could triple the efficiency of existing transmitter tubes. Higher antenna towers could be a better alternative to higher power. Also considered by the Task Force is the possibility of relaxing the rule limiting aural power to within 10-20 % of the visual power. Some stations feel that they could be more effective with a weaker aural signal.

FINAL CONCLUSIONS

While many households don't consider UHF worth the trouble and expense, many others have equipped themselves with receiving systems far insufficient for good reception. The Task Force recommends a consumer information program which would aid the consumer in selecting the right equipment. Also, as additional program sources and higher quality programs become available to UHF stations, more households will become interested in receiving UHF.

But the Task Force brings up one final point which is really worth considering: UHF will never compare with VHF. Simple physics dictates that higher frequencies cose more because more power is required. UHF will never enjoy the mass appeal that VHF enjoys

network activities and programming. But why should UHF be compared to VHF? VHF may have more mass appeal, but UHF has more potential bilingual television. for specialty groups, religious groups, eth- HAWAII: RadioCall, Inc., a common carrier in more emphasis on local programming than VHF to 494 MHz (ch. 17) for fixed relay and stations tied down to network affiliation. (WMAR, ch. 2 in Baltimore is doing this, but there are some UHF channels assigned to lost its contract with CBS as a result.)

UHF is growing and prospering. Applications for new UHF stations are steadily pouring into the FCC office, and perhaps the few years, the most interesting thing to efforts of the UHF Comparability Task Force will have helped UHF along the way. RESPONSES FROM QUESTION IN THE JULY COLUMN ABOUT VARIOUS TELEVISION STATIONS: KVFD-TV, ch. 50 in Fort Dodge, Iowa and WHFV, ch. 69 in Fredericksburg, Maryland have been off the air for years. WXNE, ch. 25 in Boston is still on; WNYE, ch. 25 is still on, but is

off during the summer months. (responses were from Eric Fader, Robert Baker, R.J. O'Connor, Greg Monti, and A.P. Smith.) The next question is: Is WTHS. ch. 2 in Miami still on and sharing time with WPBT? CORRECTIONS ON THE JULY '81 TRANSLATOR LIST: According to Robert Baker, the four Iowa

translators listed on page 9 are not on yet. Tom Yingling caught one mistake on two Virginia translators; the following is correct: W65AR 100w WJHL 11 TN Dickensonville, Va. W65AO 100w WVEC 13 VA Tangier, Va.

NEW STATIONS ON THE AIR: Leslie Price reports that WKFT, ch. 40 in Fayetteville, North Carolina, began broadcasting on June 1, 1981. WWAC-TV, ch. 53 in Atlantic City, NJ, began regular broadcasting on 7/29/81 at 7:00 p.m. after only two hours of test pattern.

NETWORK SWITCH IN BALTIMORE: WMAR, ch. 2 (ex-CBS) and WBAL, ch. 11 (ex-NBC) are scheduled to switch networks on August 30. MARYLAND PUBLIC TELEVISION: I've wondered why WMPB-67 and WAPB-22 both include W62AY on their individual test patterns. According to Greg Monti, W62AY normally translates WAPB, but switches to WMPB whenever there i trouble with WAPB's signal.

TWO NEW STV STATIONS IN PHILA. AND VINELAND, NJ: Greg also corrects me on WWSG-TV, ch. 57 in Philadelphia, PA. Despite earlier plans, they are Selec-TV, not WHT. As for WRBV, WWHT, and WSNL, from my observations. none of them seem to run parallel; they may have the same schedule, but run ahead of eachother by a few seconds to a few minutes. Naturally, W60AI runs parallel to WWHT since it is a translator. WWHT/W60AI is the only one of the three to have a barker channel. AUDIO CARRIER MULTIPLEXING: Effective 8/28. TV station licensees may communicate with Electronic News Gathering (ENG) crews using a subcarrier of the regular TV sound channel in response to a petition by Boston Broadcasters, Inc., licensees of WCVB-TV, ch. 5 in Boston, Previously, multiplexing of the aural carrier was strictly for transmitting telemetry and alerting signals from transmitter site to the control point of a TV broadcast station authorized to operate by

without extensive government involvement in remote control. Public Broadcasting System (PRS) had been opposed to this because of its adverse effect on the prospects of Stereo and

nic groups, and minorities. UHF can put much Hawaii petitioned the FCC to reallocate 488 control operations in that state. Although Hawaii, there is no channel 17 assignment. SPECIAL FEATURE FOR NEXT MONTH: If this new television season is anything like the past watch on TV will be the Vertical Blanking Interval. The VBI has been mentioned in this column on a few occasions in the past few months with articles on Teletext and Line-21 captioning. Next month FCC TV NEWS will fewture the VBI, what it does, what those white lines are along its bottom half, and some of the proposed changes being discussed within the FCC. Also, a tip on how the VBI might be helpful in identifying a station.

LITTLE BIT OF DALLAS IN TULSA, OKLAHOMA: I hadn't felt it newsworthy to report any proposed changes in the table of assignments because they take months or years before anything is done about them. But this report from Tulsa got me so steamed up I thought I'd bring it up. It's from the Federal Register, 8/12/81. The Oklahoma Educational Television Authority (OFTA) applied to the FCC to change the noncommercial educational from channel 11 to status in Tulsa channel 2. OETA operates KOED-TV, ch. 11 in Tulsa and KOET, ch. 3 in Eufala, with basically the same programming. KJRH, an NBC affiliate, operates on ch. 2 in Tulsa. Presently, KJRH and KOET have been having trouble with adjacent channel interference. Residents between Tulsa and Eufala have installed traps to eliminate either of the stations. But KJRH recently applied to relocate its transmitter to a place 20 miles closer to Eufala. The OETA petition, which has the support of KJRH, will put KJRH on channel 11, and KOED-TV on ch. 3. Thus residents between KOED-TV and KOET can choose between the two. still having one of the OETA stations, and KJRH. KJRH also agreed to provide OETA with over one million dollars worth of equipment if the switch is accomplished. But Tulsa 23, permittee of KOKI-TV, ch. 23 in Tulsa (in my opinion the villain in the story) is in agreement with the change for other reasons. Tulsa 23, asserting use of a policy established by the FCC called the Cheyenne Policy because of a case involving an FM assignment in Chevenne, Wyoming, insists that a commerrial assignment on channel 11 will be a new assignment, thus open for competing applications. KJRH and Tulsa 23 would both have to compete for that VHF assignment, (Also, if Tulsa 23 is awarded the channel 11 assignment, KJRH could very easily lose its NBC affiliation to Tulsa 23.) Tulsa further says that even if OETA withdraws its application, the FCC should go ahead with the proposal anyway since it is in the public interest. (as if Tulsa 23 is really concerned about

APPLICATIONS FOR CALL LETTERS-NEW STATIONS ch C.L. City/state/applicant 29 WFBT-TV Minneapolis, MN; Faith Bc'g Net. 41 KXLI St. Cloud, MN; L.E.O.Broadc'g Inc 17 1300 1081 Grand Rapids, MI; WHMA-TV 23 WXXA-TV Albany, NY: Albany TV-23, Inc. 62 WFCT Favetteville, NC: Favetteville-Cumberland Telecasters, Inc. APPLICATIONS FOR CALL LETTERS-EXISTING STA. 41 KSHB-TV Kansas City, Missouri; KBMA-TV

Nashville, TN; WSM-TV 4 WSMV 9 KECY-TV El Centro, CA; KECC-TV Albany-Troy-Schenectady, NY; WAST CALL LETTER GRANTS-NEW STATIONS 52 WTGL-TV Cocoa, FL; Good Life Broadcasting

44 WAFV Evansville, IN; Family TV, Inc. CALL LETTER GRANTS-CHANGE IN EXISTING 42 KESO-TV Palm Springs, CA; KESQ

ADDITIONAL APPLICATIONS FOR CALL LETTERS-NEW STATIONS 49 WQAP Saginaw, MI; Saginaw Communica'ns

54 WATX-TV Arecibo, PR; Arecibo Video Corp. APPLICATIONS FOR NEW TELEVISION STATIONS ch.ERPvis HAAT city/state/applicant 834 2610 Riverside, CA; Bethel Bc'g 864 1632 "; Ettinger Broadc'g Corp 62

3630 2395 "; KIST Corporation 62 2344 2400 "; Riverside Family Telev.Inc 28 813 ---- Los Angeles, CA; KCFT

4000 2388 "; United American Telecastrs 3548 2389 "; Focus Broadc'g of Riversode

56 717.8 241 Melbourne, FL; Ellen Thiessen 32 19.67 151 Appleton, WI; Apogee, Inc. 54 1614 1236 Columbus, GA; Columbus Family Television, Inc.

32 2455 1020 New Orleans, LA; Educational Broadcasting Foundation 39 691.8 684 Parkersburg, W.V.; Parkers-

burg Family Television, Inc. 1694 837 New London, CT; CTV of Conn. 1122 209 Silceston, MO; Rob't Owens 45 759 460 Marshall, TX; Holt-Robinson 35

2570 1917 Honolulu, HI, Pacific Rim Broadcasting Company 5000 454 Racine, IL; Channel 49 of Rac.

54 27.54 186 Muskegon, MI; Apogee, Inc. 2950 2090 Jackson, MS; Big River Bc'g 40 2600 1161 "; Television Corp. of Miss.

26.3 146 Danville, VA; Apogee, Inc. 62 1388.8 1604 Riverside, CA; Channel 62 Limited Partnership

2388 -135 Sierra Vista, CA; Sierra Vista Television, Inc.

SUBSCRIPTION TELEVISION AUTHORIZED

22 Salem, Oregon; KECH 12 Pembina, ND; Satellite Television Serv'c 23 Minneapolis, MN; KTMA; TV

APPLICATIONS DISMISSED BY THE FCC ch city/state/applicant

20 Sherman, TX; 20-20 Broadcasting Corp.

20 Tacoma, WA; Tacoma Community Television 16 North Little Rock, AR; Christian Center

34 Lubbock, TX: Robert M. Voelker 21 Mobile, AL; Alabama Orion

33 Springfield, MO; Christian Center of the Ozarks

49 Buffalo, NY: Channel 49 Buffalo Telev'n. REQUESTS TO MODIFY CONSTRUCTION PERMITS

ch ERP HAAT city/state/ call letters 51 2450 1840 San Diego, CA; KUSI-TV (change transmitter location to 13 mi. east of San Diego)

21 692 620 Reno, NV; KAME-TV

12 316 1076 Merriman, NE; KRNE-TV

26 316 1272 Knoxville, TN; WTVK (change to ch. 8, a recent VHF drop-in)

FCC GRANTS TO MODIFY CONSTRUCTION PERMITS 40 1542 ---- Fayetteville, NC; WKFT

35 2328 2414 Salinas, CA; KCBA 23 1510 ---- Minneapolis,MN; KTMA-TV

FACILITIES CHANGE APPLICATIONS 39 4508 1679 Dallas, TX; KXTX-TV

40 2113 994 Indianapolis, IN; WHMB-TV (TL to 7701 Walnut Drive, Ind'polis) 16 2600 1029 Joplin, MO; KTVJ

4 100 903 Columbus, OH; WCMH-TV (TL to 766 Twin Rivers Drive)

7 316 ---- Omaha, NE; KETV FACILITIES CHANGES GRANTED BY THE FCC"

44 1050 1420 Chicago, IL; WSNS-TV 8 ---- 2668 Medford, OR; KSYS (TL to 28 mi northwest of Medford)

15 2500 ---- Hampton, VA; WHRO-TV (temporary reduction until 11/8/81)

3890 2321 "; Riverside Telecasters, Inc 49 676 510 Muncie, IN; WIPB (began 7/9/81)

2366 2258 "; Sunland Communications Co. 16 2000 980 Salisbury, MD; WBOC-TV (began 7/7/81, and a definite improvement seen from Bridgeton, NJ1)

17 2240 1050 Nashville, TN; WZTV 9 316 ---- Odessa-Monahans, TX; KTPX (began 6/30/81)

26 5000 2000 Visalia-Fresno, CA; KMPH (TL 0.3 mi. NE of Generals Hwy and 4.0 mi SE of Wilsonia)

4 100 1342 Rock Island, IL; WHBF-TV (TL 5 miles E of Davenport, sharing tower with WOC-TV, ch. 6)

APPLICATIONS TO CHANGE CITY OF IDENTIFICATION 45 WJTM-TV (Winston-Salem, NC) to ID as Winston-Salem, Greensboro, High Point)

3 KCRA-TV (Sacramento, CA) to ID as Sacramento-Stockton

23 KVEO (Brownsville, TX) to ID as Brownsville-McAllen

ID CHANGES GRANTED BY THE FCC

48 WGGT (Greensboro, NC) now Greensboro-High Point- Winston-Salem

49 WGCB-TV (Red Lion, PA) now Red Lion-Lancaster-York

NETWORK CHANGE:

Effective 9/28/81, WRGB in Albany-Schenectadv is CBS (This was NBC's first affiliate in the United States) WAST becomes NBC.

FCC TV NEWS

CONSTRUCTION PERMITS GRANTED BY THE FCC ch ERP HAAT city/state/applicant

34 67.92 915 Lubbock, TX; Troy Raymond Mora 21 2937 1603 Mobile, AL; Mobile Pensacola Broadcasters. Inc.

33 579.4 1634 Springfield, MO; Springfield Family Television, Inc. 61 6.62 559 Greensboro, NC; Consolidated

Broadcasting Corporation. 14 200 622 Suring, WI; Northeastern Wis-

consin Christian Television 12 316 825 Pembina, ND; Satellite Television Service, Inc. (also got STV authorization)

29 1811 1190 Minneapolis-St. Paul, MN; New Faith Broadcasting Network Inc

38 30.64 1287 Scranton, PA: SWH Associates 20 2094 800 Tacoma, WA; Family Bc'g Co.

CHANGES IN TELEVISION TABLE OF ASSIGNMENTS Owensboro, KY: delete 19; add 48z Madisonville, KY: add 19-

Tullahoma, TN: add 64+

Lander, WY: Change 4z to *4z; add 5z (applied for by Central Wyoming College; the current application by Chrysosthom Corp. for a commercial station on ch. 4 is modified to specify channel 5 instead.)

CUBAN TELEVISION STANDARDS:

Did I open my mouth too much when my last reception report mentioned that Cuba used a different system than North America? According to the World Radio TV Handbook, uses a Chinese system consisting of 625 line scan pictures, on an 8 MHz wide television channel, with some of the channels extending into most of our FM band. Also, their color is supposedly SECAM instead of NTSC. But I found out that the 1981 TV Factbook says that Cuba uses NTSC color, and makes no distinction between Cuba and North American channel spacings or frequencies. I found a British book on radio-electronics which says months ago. Ask if the local library is a that Cuba uses SECAM, but does not mention what television system it uses. If you have information on Cuba's system, let me know. If I find anything during the next month, it will appear in next month's column.

MORE NOTES FROM MEMBERS:

Bill Draeb says that WQOW, ch. 18 in Eau Claire, Wisconsin is now on. Steve Sprachman clarifies on WNYE, ch. 25 in New York City: It still broadcasts on the evenings during the summer, but daytime instructional programs are broadcast only during schooltime.

> HELP FIGHT

"I suppose pretty soon they're also going to be against E-skip!"

OCTOBER, 1981

CONSOLIDATED HEARINGS · Everett, Washington, channel 16:Unity Broadcasting Company of Washington State, Inc.; Greater Everett Telecasters; Channel 16. Inc.; Oak Television of Everett (which plans to be STV).

Reno, Nevada, channel 27: Family Stations, Inc.; High Country Broadcasting, Inc. • Hartford, Connecticut, channel 61: Golden West Broadcasters (which plans STV); Arch Communications Corp.; Greater Hartford County Telecasting Corp. (which plans STV); Hartford Television, Inc.; Community Television of Connecticut (which proposes Middletown. CT as city of license).

• Applications for changes in facilities by WHNS, channel 21 in Asheville, NC and WGGS-TV, channel 16 in Greenville, SC. The two stations both propose relocating their transmitters to within 5 miles of one another but minimum separation is 20 miles. The application by WGGS-TV was previously dismissed, but WGGS-TV had since applied for a review of the FCC's decision.

RESULTS OF CONSOLIDATED HEARINGS:

• Tacoma, Washington: FCC Granted application by Family Broadcasting Co. for ch. 20 and dismissed application by Tacoma Community Television and Tacoma School District #10. •Lubb ock, Texas, ch. 34. FCC granted application by Troy Raymond Moran and dismissed application by Robert M. Voelker.

• Mobile, Alabama, ch. 21: Alabama Orion withdrew its application; Providence Journal Broadcasting Corporation modified its application to specify applicant as Mobile-Pensacola Broadcasters, Inc.

SUGGESTION BY BRUCE ELVING: He recommended that I suggest the Public Library for anyone who would like to look at the Code of Federal Regulations which I mentioned a few Federal Depository, or if they know where the nearest Federal Depository is to you. I would also like to mention that a library is a tremendous resource for the DX'er. Phone directories can give addresses of stations for you to send your reception reports and can also help you locate some of your UnID's (if you see a commercial for a local business, check the phone books of a few possible cities where the station could be licensed, and see if that sponsor is listed there.) Local libraries here give me access to the Federal Register, Broadcasting magazine, TV Factbook & TV Digest, Broadcasting-Cable Yearbook, Advertising Age, and much more. Can you imagine how much that would cost me? And it's all for free!

NEXT MONTH IN FCC TV NEWS:

Update on translator licenses and permits Report on what's happening to the vertical blanking interval

Technical standards for LPTV: The FCC came up with a proposed set of separation standards for proposed low power television stations which is somewhat inferior to the present case-by-case system. Taken into account is non-standard offset frequencies and the receiving antenna's front-back ratio. Details on that next month.

fhook

New AKTok K285AW \$, mc (KJNP-FM 100.3 North Pole AK translator), 106° AZ Marana 98.3 3000 h.v: 145': k AZ Sedona 100.1 450 h,v; 800' (Change city for Big Park Valley translators to "Sedona") AR Mountain View 103.3 100000 h.v; 950'; k CA Tehachapi 103.1 3000 h.v: -540' [honeter CA Twin Peaks KCAL-FM1 96.7 \$ r 10 w, 30°, / CA Weed 100.9 95 h.v: 1425': rock FL Bonifay 97.7 3000 h.v; 300'; rock FL Havana 104.9 3000 hv; 300' Ft Tallahassee 95.9 3000 h,v; 300'; soul ID Bonners Ferry K265AQ \$, k (KZUN-FM 96.1 Spokene WA FM translator) IL Macomb *88.3 120; 83' Western IL, U. ME Saco 95.9 3000 h.v: 300': m MI Menominee 106.3 3000 h,v; 150'; m MI Portage 107.7 50000 h,v; 500'; rj NE Grand Island 107.7 100000 h.v: 900': rm NY Hudson Falls 101.7 3000 h.v. 250'; rk NY Ithaca W299AA 107,7 \$, r (WNOZ 99.9 Cortland NY translator) New Plymouth ID, but OR Ontario 93.1 channel: 50000 h,v; 2630'; m OR Portland *89,9 8700 h.v: 960' WY Evanston 106.3 98 (horizontal): 1450': m

rk and talk. English and Mohawk languages. Delete IA Onawa 102.3 Slogans/NonIDs

WY Powell 92.9 100000 h,v; 1860'; along with

Hauser found no FM reception on recent trip

PQ Caughnawaga (on the Caughnawaga Indian

reservation, SW of Montreal; across the St.

Cody 97.9 to serve an area of NW WY where Glenn

Lawrence River from La Salle) CKRK 103.5 14 w.

AL Decatur WDRM 102.1 Country-102 CO Denver KLIR 100.3 Clear FL Fort Pierce WIZD 98.7 99-IZD (not "Wizard") GA McRae WDAX-FM 95.3 Dax GA Savannah WCHY 94.1 Y-94 ID Pocatello KPKY 94.9 95-Alive, m. not mc II Thes Plaines WY FN 106 7 FM-107 KS Junction City KJCK-FM 94.5 Stereo-94(strict) KS Kansas City KCKN-FM 94.1 FM-94 MI Bay City WGER 102.5 FM-102 MI Midland WUGN 99.7 Stereo-100 MT Billions KIDX 98 5 FM-98 NV Reno KOZZ 105.7 The Z NH Concord WEVO *89.1 FM-89, on air, POOR SIGNAL at 56 miles into ME (50 kw h,v; 245') NY Buffalo WDCX 99.5 FM-99, WPHD 103.3 FM-103: WYRK 106.5 Stereo-106 NY Fulton WKFM 104.7 KFM NY Rochester WMJQ 92.5 92-MJQ, WD KX 103.9/ NY Utica WIBQ 98.7 FM-99. WRCK 107.3 Rock-107 OH Lorain WZLE 104.9 Z-105 OK Broken Arrow KMYO 92.1 Cameo-92

OK Ponca City KPNC 100.9 FM-101 (heard by a reporter on 100.8, but back to 100.9 later) OK Sallisaw KAZZ 95.9 Z-96 OR Klamath Falls KJSN 92.5 FM-92 OR Medford KBOY-FM 95.3 FM-95 PA Warren WRRN 92.3 Stereo-92 SC Charleston WKTM 102.5 Rock-102 SC Cheraw WPDZ 103.1 Z-103 TX Lufkin KYKS 105.1 Super Kicks WA Richland KIOK 94.9 OK-95 WA Yakima KATS 94.5 Cats WY Gillette KOLL 93.5 93-Rock WY Jackson KMTN 96.9 97-FM ON North Bay CKAT 101.9 C-Cat ON Toronto CHIN-FM 100.7 Chin

\$tereo

CA South Lake Tahoe KZFR 103.1 CO Grand Junction KCIC *88,5, q KY Harrodsburg WHBN-FM 99.3 MT Billings KEMC *91.7 NE Ord KNLV-FM 103.9 (muffled: seems to be steren on only one of their two turntables) ND Bismarck KCND *90.5 OH Shelby 100.1 OR Grants Pass KFMJ 96.9 PA Ebensburg WIYO 99.1 SD Hot Springs KOBH-FM 96.7 "Stereo KOBH" WA Centralia KELA-FM 102.9

Facilities AK Wrangell KSTK *101.7 -180' (3000h.v)

AZ Anache Junction KSTM 107.1 1800 h.v: 430' CA Angwin KANG *89.9 540 h.v; 3040' CA Atherton KMAH *89.1 (from 88.9) 100: 76' CA Berkeley KALX *90.7 500 h.v: 780' CA Rio Vista KRVH to *101.5 (from 90.9), 10 w CA San Francisco KLHT 93.3 35000 h.v:590', r. no AP Audio network CO Boulder KBCO 97.3 33000 h.v. directional / CT New Britain WFCS to *97.9 (from 90.1) 10 watts, 108 feet above average terrain. DE Newark WXDR *91.3 1000 h.v; 140' DE Wilmington WMPH *91.7 100 h.v; 140' FL Bradenton WDUV 103.3 580' (100000 h.v) ON Marathon 93.1 50000 (240 km E. Thunder Bay) ID Boise KBSU *91.3 (from 90.1) 3000 h.v: 280' IA Decorah KLCD *89.5 100 h.v: 180' IL Carbondale WCIL-FM 101.5 350' (50000 h.v) IA Sioux Center KVDB-FM 94.3 300' (3000 h.v) LA Grambling KGRM *91.3 100 h,v; 140' LA Monroe KNLU *88.7 4300 h,v; 140' [650' ME Auburn WWAV 99.9 (from 100.1) 30000 h,v/ MD Baltimore WLPL 92.3 10000 h,v; 560 MA Boston WHUE 100.7 50000 h.v; 500' MA Easton WSHL *91.3 100 h.v: 68', directional MA Sheffield WBSL *91.7 230; -74' MI Detroit WDTR *90.9 50000 h v (175') WJLB 97.9 490' (50000 h.v) [105'

MN Crookston KCUM *91.5 (from 91.7) 425 h,v/ MN International Falls KICC *91,5 180; 99' NE Auburn KAUB 105.5 150' (3000 h.v) NE Columbus KTLX *91.9 100 h,v; 54' NV Reno KUNR *88.7 2130' (20000 h.v) NH Dover WO KO 97.5 500' (50000 h.v) NJ Hanover WHPH *90.5 (from 90.3): 100 h.v:-3'. to share time with WJSV Morristown NJ *90.5.

which is also going to 100 h,v;-3' NM Farmington KRAZ 96.9 100000 h,v; 500 NY Baldwinsville WBX L *90.5 has vertical NY Middletown WKG L 92.7 300' (3000 h,v) [-800' NC Cullowhee WWCU *90.5 (from 91.7) 330 h.v./ OK Claremore KNGX *91.3 220 h.v. 365' OK Stillwater KVRD 105.5 460 h v: 27' OK Tules KTEX 103 3 1280' (100000 h v) OR Eugene KBMC 94.5 100000 h,v; 810' TX Austin KUT"-FM" *90.5 680' (100000 h.v) TX Eastland KVMX 96.7 1700 h,v; 390' TX Harlingen KIWW 96.1 450' (100000 h,v) TX Pecos KPTX 98.3 120' (3000 h,v) TX Terrell Hills KTUF 106.3 1025 h,v; 440' TX Vernon KVWC-FM 102.5 3000 (h) (140') UT Provo KRMQ 94.9 47000 h.v. 2790' VT Randolph Center WVTC *90.7 300: 200' VA Norfolk WCMS-FM 100.5 500' (50000 h,v) VA Richmond WD CE *90.1 100: 86* WA Centralia KCED *91.3 600; 130' WA Spokane KSFC *91.9 100; -1820' [1611') BC Kelowna CHIM"-FM" 104.7 4300 (directional/

Formats/Networks At. Birmingham WAPI-FM 94.5 rp, "95-Ro AL Dotham WTVY-FM 95.5 CBS (was ABC-FM) CA Hanford KKYS 107.5 country (k)

CA San Francisco KYUU 99.7 rock

KIOI 101.3 rp CA Seaside KMBY-FM 107.1 rock, presumed no Sheridan Broadcasting Network (Z) CO Manitou Springs KCME *88.1 ABC-FM DC Washington WWDC-FM 101.1 T (was E) GA Cornelia WCO N-FM 99.3 rg (from rock) GA Sevennah WJCL-FM 96.5 CBS ("AP Audio) IL Rock Island WVIK *90.1 pc MA Greenfield WRSI 95.3 folk (progressive?) MI Detroit WCZY 95.5 drons Shulke II. to go live rm (adult contemporary) MN Breckenridge KKW8 104.9 rock, K-105 MN Detroit Lakes KVLR 95.3 Mutual MT Great Falls KNUW 94.5, Rock-95, E, or

ABC-Entertainment (delays to top of hour) NE O'Neill KBRX-FM 102.9 (ABC Information) NJ Newark WFME 94.7 g (not oc-only classical is 2 hours Sunday afternoons) [Life) NY Herkimer WYUT 92.7 m (Music of Your/ OH Toledo WKLR 99.9 country, K-100 PA Brookville WMKX 95.9 r. no stereo, ON AIR with 3000 watts horizontal at 300' PA. Clarion WCUC *91.7 rk. Mutual

SD Rapid City KKHJ 93.9 m (from rock). FM-94, "Bringing beautiful music to the Rlack Hille '

TN Sevierville WMYU, "U-102," rk, new transmitter location puts stronger signal into Knoxville and functions as a Knoxville station, but Sevierville ID still given on the hour. says Glenn Hauser.

UT Coalville K201AE *88.1 kr UT Park City KPCW *91.9 kr VT Bellows Falls WTIJ 107.1 gospel WI Middleton WWQM-FM 106.3 ABC-Informa-/ WI Platteville WSUP *90.5 no network, "91-FM" Stereo WSWW-FM 107.1 light rock, C, "\$-97 Stereo 107.

WY Riverton KCWC *88.1 rock (soft) [network AT Red Deer CKRD-FM 98.9 drops CBC stereo/ PO Hes de la Madeleine CBVM 95.3 adds 6% hours per week from CBC-FM 96.9 in Charlottetown PEI.

Dual-City IDs

WI Antigo WR LO 105.3 adds Crandon WI.

Calls

AZ Bullhead City 104.9 K285AC (assumed). not K285AU AR Booneville 92.1 KJON CA Garberville 100 1 KFRG CA Mariposa 104.9 K285AU (not K285AC) CA San Diego 105.3 KCBQ-FM (was KITT) CO Steamboat Springs 96.7 KSBT (KBCR-FM) FL Gainesville 105.5 WYKS (WGVL) ID Caldwell 103.1 KQZQ (KAIN-FM) IL Granite City 106.5 KWK-FM (WWWK) IN Plymouth 94.3 WNZE (WTCA-FM) IA Pella 103.3 KXJX (KPLL) KY Falmouth 95.3 WIOK (WNKR) KY Prestonsburg 95.5 WQHY (WDOC-FM) LA Clinton 92.7 WFEX ME Rumford 96.3 WWMR (WRUM-FM) MA Boston 106.7 WMJX (WBZ-FM) MI Pinconning 100.9 WHFU MN Fergus Falls 96.5 KJJK MS Jackson 96 3 WX1 Y (WJFR) MT Kallispell 98.5 KFXZ (not KFKZ, which remains in Greeley CO)

NY New York 98.7 WRKS "-FM" (WXLO) NY Syracuse 107.9 WRRB (WONO), country NC Burgaw 99.9 WVBS-FM (WPJC) ND Grand Forks 92.9 KKXL-FM (KKDQ) OH Batavia *88,7 WOBO OH Belore 107.1 WNUS

FCC-FM

OH Lancaster 95.5 WHOK (WHOK-FM) OR Lincoln City 96.7 CKCRF PA Pittsburgh 93.7 WB22 (WJO1) R-94 PA Punxsutawney 105.5 WPXZ-FM (was WPME-FM) TX Conroe 106.9 KJOJ (KMCV) WA Bellevue 92.5 KZAM"-FM" (KZAM-FM)

WI Lancaster 97.7 WAXL

WI Rice Lake WAQE-FM (not WAQE"-FM"), IA lowe City KRNA 93.9 no SCA WY Casper 95.5 KTRS WY Rawlins 92.7 KIAJ NF Trepessey 95.3 CBNQ"-FM"

SCA(67 kHz) CA San Mateo KCSM *91.1 no SCA MI Jackson WIBM-FM 94.1 adds SCA MN Grand Rapids KAXE *91.7 back on with talking/ MT Ronan KORR 92.3 adds SCA NEX1 incoln KUCV *90.9 talking book (to replace KCRD 96 9 Seward) WV Huntington WHPW *89.9 Ttalking book, or talk WI Madison WORT *89.7 adds SCA PR San Juan WZNT 93.7 adds SCA NS Halifax CHFX 101.9 background music

Readers' Reports

Georgia's Nick Lombardi sent two articles on FM there. The FCC has accepted the application of WABE *90.1 Atlanta to increase power from 30,000 to 100,000 watts, but they'll still have to look for funding. And the new tower of WBBQ-FM 104.3 Augusta was cut down by vandals. Fred McCormack says "I am looking forward to a new edition of the FM Atlas. During a recent Es opening, over half of the loggings were either new since the Atlas or had changed call letters." The new book is being readied while this column is being typed and should be out in late November. See last month's VUD for more information.

Greg Monti sent considerable information on the National Public Radio Network. It notes which stations have satellite receive capability and which can also send out to the satellite, among other things. Some stations listed, such as WORT *89.7 Madison, are shown as not carrying any NPR programs, while other stations, like KVNO *90.7 Omaha (on which I have never heard any NPR material] are listed as full affiliates. So even published lists don't clarify!

WSIA *88.9 Staten Island (not "Richmond," which is the county name) was to have come on the air in September. Its tower is at Toolt Hill behind St. Francis Seminary, and it is owned by the Sunnyside campus of the College of Staten Island. It will be on 6 am to midnight (to 3 a. m. Saturday and Sunday mornings) and from 8 a. m. to midnight Sundays. Variety music for this 10-watter; stereo?

Art Thompson, WEME West Orange NJ, says they are not yet an educational organization, but are trying to get some slots in the educational band for FM translators. The new FM Atlas features a long article on FM translators, and developments in that field. And Ralph Strobel did hear an FM translator, when he heard the KPCW *91.9 Park City UT programming on *88.1 (from K201AE Coalville), and he has a verification to prove it. Translators do skip out!

WSCD *92.9 Duluth is back to full power, after vandals had cut their transmission line. They expect by now to have WGGL *91.1 Houghton MI back on the air, as a Minnesota Public Radio station. Microwave towers had to be constructed to bring the WSCD signal there. Peter Sawatzky sent an article from the AP on extra-legal broadcasting in Paris that is jamming the FM band there; some stations being weak, otherstrong, and each having a different purpose. Sounds much like Italy! If my "Beam" technology takes hold here, the

Gienn Hauser came forth with an excellent report on a 4-week, 9100-mile drive, tuning around and comparing what he heard with the FM Atlas. But he does scold: I was surprised at your extreme and uncalled for criticism of other people's copyrighting of their FM information compilations. It seems that I have seen a on the Atlas, so if you do it on your own work why criticise those who do it for theirs? You never seem to have grasped the fact that different rules apply in the case of Mexico, which actually make lists such as RFS's more useful than yours, or at least valuably complementary. For instance, your reliance on official data does not take into account the fact that frequencies may vary and/or be off "permanently," that station slogans are even more of a factor in Mexico than in the U. S., etc., etc., Other trip observations: "KINI 96.1 Crookston NE very interesting station! Only connextion with Crookston appears to be city of license, as studic and xmtr are at St. Francis SD; run by Catholic mission; has mostly English but some segments in presumed Sioux. Oh, they did observe CDT, as Crookston does, apparently, tho reservation is supposedly in MDT... KXXE 101.3 Forsyth MT, good coverage; heard at Devils Tower WY... Says studio is in Miles City. In this case, KINI's and many others, I suggest you start giving dual-city info where appropriate!'(I do so only if dual-cities are named equally in the top-of-the-hour ID and/or if the FCC so indicates - reflecting my penchant for using official datal). "During the trip I must have heard the worst possible multipath effects a number of times... KEMC *91.7 Billings MT has limited (summer only?-ed.) schedule, signing on at 1959 GMT; is \$; announces underwriters and classical and jazz format; no NPR programs heard (the last hint of classical music I had was in mid-South Dakota when KUSD-690 faded out. This is really a vast wasteland)... FM band was dead from Cody to Yellowstone Lake... In Montana, approaching Glacier NP, heard on 91.7 ID as KSCN (?), commercial station. Mystery, calls not listed in Vane Jones on AM or FM. Could this be 91.7 Lethbridge, perhaps translating U. S. station? Or maybe misheard call and was actually CF-?. 107.7 unlisted Lethbridge Alta station: 'Stereo 107 LA-FM' was only ID heard several times. At Rising Sun Motor Inn, Glacier NP: 100.1 CBRX is referred to as a 'low power relay' on ID tape from CBR! 104.3 CHFA-1 Lethbridge sign off 0459; left carrier on all night, s;on 1156z. I am not sure if leaving carrier on all night is SOP, or done because of tech strike; have heard rumors of the latter; however, CBRX did not. ... 102.7 CFRO Vancouver; another interesting station: 'Vancouver Cooperative Radio, 102.7, 104.9 on Cable' at 2100 check not on, but by 2230 it was with BC Byline; 0030 classical; mono. . . heard at Victoria BC. . . Chemult OR 103.1 translator is on with wide coverage. Several translators having construction permits only not heard; in other places, like Bend, cable radiation made FM listening confusing. . . KXLS 99.7 in Oklahoma great coverage, heard first north of Buffalo OK, long before KNID Enid audible; strongest station on band for some time. . . Never mentions Alva except in legal ID on hour, 'Alva-Enid.' studio at Enid. Has 835' tower near Helena. Went on air in Feb. 'Main' studio supposedly in Alva, but are phasing it out since got dual-city ID and would like to forget Alva completely, 93.1 tried and tried for KHDX while stopped at Conway for gas, but no sign of it. 90.5 Little Rock KLRE bills itself as 'Fine Arts Radio,' but runs a lot of clutter like Salvation Army PSAs, ARN net news, and strings of program promos with classical music under, etc." FM Atlas errors: "You have quite a time spelling Puyallup WA, on p. 54 & 81. p. 69 Wichita KS: KMUW on 89.3 instead of 89.1.; p. 89 90.9 IL Glen Ellyn WDWDCB? Three lines above this I have noted WRAF with U net, g format [Toccoa Falls GA], p. 90, 91.1 NE Blair WDCV? ... WUOT & WUTC Plan to go 24h Oct. 1." Note: Glenn uses Universal Coordinated Time in his reports (GMT [z?]).

Dr. Richard Wood sent an article mentioning that KRCU *90.9 Cape Girardeau MO was to have boosted its power to 125 watts (h) at 270 feet September 4, 1981. WEHB *89.9 Grand Rapids MI has apparently found a new tower, having been kicked off the Aquinas College property. WCSY 95.5 Detroit drops automated "Shulke II," soon to go live adult contemporary (rm), says Phil Boersma.

Translator K249AA 97.7 Seaside OR is powered by a windmill, and KLCC *89.7 Eugene is in the process of upping to 30000 h,v;750' Contributors: P. Boersma, Spring Lake Mi, John D. Buehler, Toledo OH; J. W. Dornbrock, Clarion PA; John Eteling, Bloomington MN; Gerard Gardner, Staten Island NY; Glenn Hauser, Knoxville TN; Bob Hempel IA; Mark Humphries, Syracuse NY; Frank La Beile, Verdun PQ; Walter Patton, Montreal PQ; R. H. Perrin; Wells ME; Joh Rohrer, Rice Lake WI; Peter Sawatzky, Guelph ON; Ralph Strobel, Muncie IN; Peter V. Taylor, San Francisco CA; Art Thompson, West Orange NJ; Mike Wiist, Lincoln NE; Zack Schindler, Madison Heights MI; Larry Weil, Acton MA; Tracy K. Wnod, Hillsboro OR; Dr. Richard E. Wood, Cape Girardeau MO; Tom Yingling, Baltimore MD. Tom asked what difference in a tuner the 75 uS or the 50 uS switch positions make. You can try both, but for the U. S. system of broadcasting 75 microseconds is the setting to use. Neither makes any difference for SCA detection. Zack Schindler's contribution was an article on the Dow Jones test of SCA/subscription radio in four cities yet to be named. Also contributing: Saul Chernos Burnt River ON; Nick Lombardi, Atlanta GA; Fred McCormack, Fargo ND, Greg Monti, Silver Spring MD; Dave Nieman, Akron NY.

SOUTHERN FM DX

tr.....

OCTOBER 1981

For FM DX reporters from: AL, AR, AZ, CA, CO, DE, FL, GA, KS, KY, LA, MD, MS, NC, NM, NV, CK, SC, TN, TX, UT, VA AND WV.

SOME GOOD TROP RETURNS, WHILE ES SEASON CONCLUDES POORLY

While not widespread, trop activity was the main highlight for August and early Sept. A 3 day opening got underway on Aug. 19th when a cool High ridge extending from the upper Midwest near Canada to the Oklahoma area stagnated. Distances logged ranged out to near 800 miles as noted by your editor. On Sept. 2 much the same situation repeated itself but only lasting for one evening. Unfortunately, only your editor was lucky enough to be on the receiving end of all that trop in the FM South. If you can dispute that statement, why not report your DX?

The last part of the Es season turned out uneventful. Nearly all the openings were quite weak, though one reporter didn't have it so bad Aug. 6th. Meanwhile ms DXing picked up for some reporters as the Persieds meteors seemed more productive than in recent years.

Charles George, 6407 Howa	rd, Dallas, TX	75227 - July		
7/23 tr 0700 KQXY 94.1 TX Beaumo "The beautiful Q"		7/24 Es 1000 KEYA	88.5 ND Belcourt, k, 92.9 OK Tulsa, m, tal	

8/8 Es 1034 XHZM 92.5 PUE Puebla,SS ID, Stereo Rey 1058 ???? 88.1 Radio VIP, new Mexican station? 8/16 tr

2252 KHCS 88.1 TX Round Rock, new, mono, gr, TX #220

9/7 line-of-sight 0955 KMRB 107.1 TX Burnet, ex-KHLB-FM, now auto rm, still Mutual nx

Rick Samford, 404 S. McNeill, Burnet, TX 78611 - Aug. 7 to Sept. 7 CDT

Hank Holbrook, 7211 Chestnut St., Chevy Chase, MD 20815

DXpedition #3 for the '81 season, with Super Toyota FM rx and vertical antenna
(1) Keyes Gap, WV Route 9 between Hillsboro, VA and Charles Town, WV, Scenic Overlook
Logged for the first time.

7/31
1005 WKSU 89.7 OH Kent,c, nice signal
WKSU Morning Edition program 235
0857 WWZE 101.7 PA Central City, nx, wx and
rock fairly good to good. 95

7/31 tr ex-WAJR 120
0935 WVAQ 101.9 WV Morgantown, nx, Mary Ann
in the morn. Nil to mod. QRM WLIF Baltimore
1208 WHPA 104.9 PA Holidaysburg, wx,nx, Bus.
report. Refer to me as the "Friend of the
Broadcasters." Their most distant report.
122 watts. Weak to fair.

(2) Sugar Loaf Mountain - SE of Frederick MD: 7/31 1425 WLCC 106.3 VA Luray, rock, good 75

Also noted at Sugar Loaf was a good signal from WKGO Cumberland, MD, but when I tuned to 102.9 looking for "Big Jesse" WJSE, the channel was blank and later when a weak signal did come thru there it turned out to be "Wowie" WOWI in Norfolk, VA.

Also took a two week vacation at our Fair Haven, MD cottage but only noted one 'new' logging, a call change. Equipt.: Scott 310E FM tuner with Finco 10 element yagi. Rotor not working antenna pointed NE. Hope to make one more trip to Keyes Gap sometime in the Fall.

1523 WNBR 100.7 NJ Wildwood, little to heavy QRM WHUD with no sign of WTTR! ex-WCMC. 95

George Rogers, 320 Lafayette Rd., Chickaman	uga. GA 30707 - July 27 to Aug. 27
Equipt: General Electric Superadio Model N	O. 7-2880 B. All times EDT.
<u>7/27</u> tr	1 <u>7/27</u> tr
0935 WRQR 98.7 NC Greensboro, wx	1010 WWDM 101.3 SC Sumter, sr
0945 WCPC 93.3 MS Houston, AP sports	1015 WMC 99.7 TN Memphis, ad
0950 WAFM 95.3 MS Amory, ad	1045 WCOS 97.9 SC Columbia, k
0955 WXRC 95.7 NC Hickory, ad	<u>7/29</u> tr
1000 WEZI 105.9 TN Memphis, wx	1720 WAMZ 97.5 KY Louisville, k
12	cont.

7/29 tr 1722 WKQQ 98.1 KY Lexington, r 1725 WKJJ 99.7 KY Louisville, aor 1840 WMC 99.7 TN Memphis, ad 7/30 tr 0850 WTYX 94.7 MS Jackson,r 0850 WLIN 95.5 MS Jackson, m 0900 WQMV 98.7 MS Vicksburg,r 0995 WJMI 99.7 MS Jackson,s 0905 KSSN 95.7 AR Little Rock,k 1005 WRJH 97.7 MS Brandon, g 1010 KLUP 97.9 OK Poteau, g 520 1035 WSJC 107.5 MS Magee, k 1040 KNOE 101.9 LA Monroe, ad 1140 WALT 97.1 MS Meridian, m 1145 WBAQ 97.9 MS Greenville, m 0935 WXBQ 102.7 FL Milton. ads 0945 WZZQ 102.9 MS Jackson, k 1055 KTIZ 96.9 LA Alexandria, Coors ad 8/3 tr 1010 WMC 99.7 TN Memphis, r 1100 WSTO 96.1 KY Owensboro, ad 1210 KROB 99.9 TX Robstown, ad (previous Es) 1230 WAMZ 97.5 KY Louisville, farm nx Es: 2035 CBF6 93.7 PQ Lac Megantic, FF, m 2038 CFCQ 93.9 PQ Trois Rivieres, c 2150 CBJ3 93.1 PQ Dolbeau, FF talk 8/4 tr 1105 WRES 105.7 AL Troy, k 1110 WVOC 102.9 GA Columbus, mr 8/5 tr 0910 WTVY 95.5 AL Dothan, k 1130 WEIZ 100.1 AL Phenix City 1235 WHKW 98.1 AL Fayette, r 2002 WCOS 97.9 SC Columbia, ABC nx 1705 WSNE 93.3 MA Taunton, sports 2145 WMGX 93.1 ME Portland, ad 2220 CBF6 93.7 PQ Lac Megantic, c 2227 CFMO 93.9 ON Ottawa, m 2230 CBF3 93.1 PQ Dolbeau 2230 WCGY 93.7 MA Lawrence. 60s rock 95.3 PQ Quebec City, c 2245 CBV 2248 CJMF 93.3 PQ Quebec City, FF, m 2250 CHOI 98.1 PQ Quebec City, FF, ad 2251 CBF8 100.1 PQ Trois Riveres, c 2252 CBVE 104.7 PQ Quebec City, j 2253 CBF1 104.3 PQ Drummondville, j 2254 CHOM 97.7 PQ Montreal, r 2257 WMAS 94.7 MA Springfield, ad 2258 WLVH 93.7 CT Hartford, S L 2259 WKSS 95.7 CT Hartford, nx 2300 WJUL 91.5 MA Lowell, j 2300 CBSI19 91.7 PQ Old Fort Bay, FF, ID 2302 CBON17 95.1 ON North Bay, FF, nx 8/7 Es 0807 KSDZ 95.5 NE Gordon, in again at 1215 1010 WPEG 97.9 NC Concord, ad 1205 WBBO 93.3 NC Forest City, k 1210 KQUY 95.5 MT Butte, 50s rock, B. Holly

8/7 tr 1215 WROQ 95.1 NC Charlotte, ad 1215 WCOS 97.9 SC Columbia, k Es 1230 KKHJ 93.9 SD Rapid City, m 94.1 NE Scottsbluff, P. Harvey nx 1237 KNEB 1239 KRCS 93.9 SD Sturgis. k 1750 JBC2 103.9 JAM Mandeville, Red Stripe Beer ad 8/8 Es 1455 KOB 93.3 NM Albuquerque, r 2250 KRCS 93.1 SD Sturgis, k 2255 KWYR 93.7 SD Winner, BB 2300 KKRZ 93.5 SD Sioux Falls, Mutual nx 8/10 tr 0920 WYSH 104.9 TN Clinton, k 1025 WRES 105.7 AL Troy, WX 8/11 ms0915 WUGN 99.7 MI Midland, g 0950 WXKW 104.1 PA Allentown, nx 1215 CJQR 97.7 ON St. Catherines, markets 1355 KZZB 95.1 TX Beaumont, ID 8/12 ms 0103 KNOD 105.5 IA Harlan,nx 0115 KOAX 105.3 TX Dallas, m 1447 WDSD 94.7 DE Dover, k, state #43 2031 WVSC 97.7 PA Somerset, Pirates BB 0030 KEZS 105.5 KS Liberal, ABC nx, weak 1320 CFBC 98.9 NB Saint John. m tr 2310 WRIX 103.1 SC Honea Path, Braves BB 2320 WZZW 103.1 GA Augusta, r 2325 WVOC 102.9 GA Columbus, Pabst ad $\frac{8/14}{1050}$ tr $\frac{8}{1050}$ WRQR 98.7 NC Greensboro, ad 1115 WITZ 104.7 IN Jasper 1205 WKQQ 98.1 KY Lexington, r 2227 WIHN 97.9 IN Anderson, ad 2233 WAMZ 97.5 KY Louisville, k 2300 WPFR 102.7 IN Terre Haute, pr 2330 WSTO 96.1 KY Owensboro, ad 8/15 tr 0830 WNES 101.9 KY Central City. wx 1050 WALT 97.1 MS Meridian, m 1055 WROQ 95.1 NC Charlotte, r 1058 WCOS 97.9 SC Columbia, sports <u>8/17</u> tr 0945 WDDJ 96.9 KY Paducah, r 1040 WOMF 95.7 IN Jeffersonville, ad 1200 WDEB 103.9 TN Jamestown, mr, very rare 8/19 tr 1000 WRVR 104.5 TN Memphis, nx 1800 WFFX 101.3 MI Grand Rapids, local psa 1015 WXIK 96.1 NC Shelby, r 1045 WBFM 98.1 SC Seneca, g 1220 WSTO 96.1 KY Owensboro, mr 1320 WKQQ 98.1 KY Lexington, r $\frac{8/26}{1045}$ tr $\frac{89.5}{1045}$ WETS $\frac{89.5}{1000}$ TN Johnson City, nx, WDYN off 1100 WTSU 89.9 AL Troy, m 1145 WOSU 89.7 OH Columbus, c (#1656) 8/27 tr 0755 WTVY 95.5 AL Dothan, CBS sports, cont.

As you can see the Tropo season here is off to a good start with good openings to Oklahoma and Indiana. I'm hoping for 750 to 1000 mile tropo openings this Fall. I would like to have some bumper stickers from the various FM stations around the country. Please send them to me, if any WTFDA members can find them.

	y shoot and 12 to Sept. 11 CDT
Danny Buntin, 1312 N. Skyline, Stillwater, O	(74074 - Aug. 12 to Sept. 11 obl
Equipt: Pioneer TX-9100 tuner, Antennacraft	GPM-10 at 30 It. With lotter
8/12 ms	8/21 tr 0005 WJJY 106.7 MN Brainerd, M nx, ID 740
0300 WRVL 88.3 VA Lynchburg, ID 1000	0030 KOXI 101.1 NE Columbus, nx, wx 365
tr	0030 KOXI 101.1 ME COLUMNUS, MX, WX 909 0046 WLOL 99.5 MN Minneapolis, ID 655
0306 WVUB 91.1 IN Vincennes, ID 515	
0325 KWPM 93.9 MO West Plains, ad 295	
ms .	0100 KSTP 94.5 MN St. Paul, ID, "KS-95"
0345 WAMU 88.5 DC Washington, ID 1130	0114 WAYL 93.7 MN Minneapolis, ID
(This ms was a long one, lasting about	*later that evening
70 seconds during which time nearly all	2200 KQIC 102.5 MN Wilmar, "Q-102, central
the talk heard was coherant.)	Minnesota's finest" 640
tr 410	2214 WHSA 89.9 WI Brule, ID, weak but 790
0358 KEZK 102.5 MO St. Louis, ID, m,nx	later signal improved to decent stereo
8/13 Es 1150	2300 KTPR 91.1 IA Ft. Dodge, ID 475
2106 KYSS 94.9 MT Missoula, wx, I nx	2302 KIOV 104.7 SD Sloux Falls 525
	8/22-23 tr
8/19-20 tr 520	0021 <u>WZZC</u> 101.3 IL East Moline 520
2100 KUNI 90.9 IA Cedar Falls, ID, good \$	0055 WSSR 91.9 IL Springfield, ID, s 480
2132 KFMW 107.9 IA Waterloo, ID, \$ 515	0059 WLRW 94.5 IL Champaign, ID 555
2200 WHLA 90.3 WI La Crosse, ID 625	2029 WCBU 89.9 IL Peoria, ID, wx 515
2240 KXKZ 107.5 LA Ruston 360	2035 KOEL 92.3 IA Oelwein 540
2244 KBIA 91.3 MO Columbia, nx 330	2358 WCCN 107.5 WI Neillsville, a/off 685
2350 KUSD 89.7 SD Vermillion, ID 470	2359 WERN 88.7 WI Madison 645
0000 KEBG 88.3 IA Waterloo, s/off 515	0000 KUMR 88.5 MO Rolla, s/off 320
(This one only has a 35' tower!)	0006 <u>WISU</u> 88.9 WI La Crosse, nx, ID 625
0001 KCCK 88.3 IA Cedar Rapids, ID 500	8/24 tr
0030 KSUI 91.7 IA Iowa City, ID 495	2000 KFMW 107.9 IA Waterloo-Cedar Rapids, ID
0056 KRSW 91.7 MN Worthington-Marshall,	9/2 tr
s/off, new trop state 560	1900 KSJN 91.1 MN St. Paul, ID 665
	(gave dolby calibration tone) fair stereo
8/20-21 tr	1929 KUSD 89.7 SD Vermillion, ID 470
2112 KYSM 103.5 MN Mankato, ID, k 590	1939 WGEM 105.1 IL Quincy 410
2144 WKTI 94.5 WI Milwaukee,r,"KTI" 690	1945 WQCY 99.5 IL Quincy
2206 KTCR 97.1 MN Minneapolis, k, ID 655	2000 KAUS 99.9 MN Austin, ID 575
2210 KCLD 104.7 MN St. Cloud, ID 685	2000 KFJB 101.1 IA Marshalltown, ID 470
2216 KMGO 98.7 IA Centerville 400	2001 KCCK 88.3 IA Cedar Rapids 500
2231 KRNQ 102.5 IA Des Moines, "Q-102"	2031 KJJY 106.3 IA Ankany, ID 440
2235 KLYF 100.3 IA Des Moines 430	2110 KBBG 88.1 IA Waterloo 515
2300 WYEN 106.7 IL Des Plaines, ID, nx 645	2132 WKZY 97.1 MI Escanaba, wx, ID 860
2305 KOEL 92.3 IA Oelwein, ID 540	2140 WOI 90.1 IA Ames, ID, o/KCSC, Edmond 460
2325 KNXR 97.5 MN Rochester, ID 615	2145 WSWT 106.9 IL Peoria, ID, m 515
2329 KGBI 100.7 NE Omaha, g 375	2230 KQWI 106.3 IA Clarinda, ID 350
• ,	2258 KHAT 106.3 NE Lincoln, ID 335
On Aug. 18-19, a popular weatherman in	2329 KBHL 95.3 ME Lincoln, ID
Tulsa(on TV-2) made casual mention of haze,	2330 KSRD 96.9 NE Seward, ID 385
temperature inversions and light winds.	2349 KESY 104.5 NE Omaha 375
That alerted me for a possible trop out-	2359 KUCV 90.9 NE Lincoln, s/off
break. It sure enough happened as I	9/3 tr, cont.
logged my first trop ever from MN. Before-	0005 <u>KZZL</u> 99.5 IA Lamars, ads, ID 475
hand, only had three Es loggings from that	0016 KYSN 103.5 MN Mankato 590
state. '81 is 2nd best yr. for tr here.	0530 KTOF 104.5 IA Cedar Rap ds, ID, g 500
	, '

I never received any verification on the power of my Z"ten watters" from NV. For a follow-up I sent a tape to KCEP Las Vegas over a month ago. Efforts to query the station by phone failed because it isn't listed. I'd really like to hear from KCEP since the June FCC FE listed a power increase for that station. I could find no record for a power increase for the other NV "ten watter" I received.

Corrections for my August report concerning June 18 trop should be: WBGY should not be underlined(not new), freq. for WOOS should be 106.9, WYSU should be WYSO and last logging should have read: 0330 WBBY 103.9 OH Westerville 820. WBBY verified while the first listed WDJX Xenia, OH never answered. My thanks go to John Zondlo for putting on an excellent convention and the weather for cooperating well. Until next month, 73.

NORTHERN FM-DX

Ralph Strobel, editor 2510 E. McGalliard Rd. Muncie, Indiana 47303 Deadline: the 10th

OCTOBER 1981

For FM DXers in Canada, the Northwest-Central states of WA OR ID MT WY ND SD NE MN (IA MO and states east of the Mississippi River and north of the Mason-Dixon Line.

With a twelve page column last month, I didn't have the space or take the time to say congratulations to David Nieman of Akron, New York for logging Puerto Rico, Bermuda, and Calgary, Alberta. So here it is - congratulations Dave phoned me on September 5th and we had a nice visit. He played some of his taped DX over the phone which was very interesting to listen to.

Your editor had only one bit of good luck this past summer. I was planning to write my 1000th station heard and was hoping it would be something interesting. On July 24th, station 1000 was heard on 88.1 MHz via skip. A local news broadcast was taped in which KPCW and Park City, Utah was frequently mentioned. The only listing for KPCW is 91.9 MHz, so I wrote this station to ask if a frequency change had occurred. A reply from the chief engineer of KPCW states, "No, you are not going nuts. The signal you received was that of our translator on Lewis Peak, Summit County. The translator operates on an assigned frequency of 88.1 MHz with a power output of ten watts. Lewis Peak is located ten miles SSW of Coalville, Utah and fifteen miles north of Park City." This is the first 10 watter heard via skip, as well as the first translator station logged.

Most DNers found the summer of 1981 to be quite good regarding skip, although a few would disagree. However, tropo was far below normal here in the north. Once again, congratulations to those who did increase their logs by hearing long range DN.

THE CANADIANS HAVE RETURNED!

Saul Chernos - e/o P.O. - Burnt River, ON KOM-1CO

100				2.4					_		
6/13	tr					6/16	Au				
0526	WINL	98.9 1	ΝĪ	Petoskey, "JML"	325	2021	WNIC	100.3	MI	Dearborn	295
0530	VVIN	106.7 1	ΗI	Gaylord, prev. Au	315			103.5	MI	Detroit	290
		_		Warm-107"		6/17	<u>tr</u>				
				Sault Ste. Marie,	325	1821				Detroit	290
				nglish, calls?		6/18		(99.5			
9730				Sault Ste. Marie,	325					Miami Beach, "I-95	
	Had	some Cl	BC	stuff. Why?						Rialeah, SS	1370
1922	VAER	88.3 1	ΝX	Syracuse	175	1728	WAIG	90.3	FL	Fort Lauderdale	
1950	WHILE	106.9	NY	Auburn, "Relax"	160	1835	WMCU	89.7	FL	Miami Tampa	1370
5/14	<u>tr</u>					2032	WINT	88.5	FL	Tampa	1215
1841	MIXX	99.51	ΝĮ	Sault Ste. Marie		2035		99.5	TL.	St. Petersburg	1235
1850	CBON	104.9	ON	Gogama, French,	260	<u>6/18</u>					_
ni.				CBC Radio, //860 AM						Morgantown,	365
				Dearborn						hought this was Es.	
1854	MGCL	98.5	HO	Cleveland			WCMP			Rochester, rare he	
1856	MONC	104.3 1	ΗI	Detroit	290					Rochester very cle	
1902	WELF	101.1	ΜI	Detroit			MKY	90.3	Κ¥	Morehead, during I	s 525
				Warren, "\$-92"	210		- 10	5 m er 1			
				Utica, "Rock-107"	215			W # 2			
				Fulton, "KFM"	150						
				Meadville	215						
				Detroit	290				ı		
				Bay City	275		-			اللاقة	
2039	CBBK	92.9	ON	Kingston, CBC \$	120						
		89.7			280						
				Greece				88.5	OH	Toungstown	270
				East Lansing		6/19					
		102.9	PA	Sharon-Youngstown OH	290						300
<u>\$</u> /15						0105	WERG	89.9	PA	Erie, s/off	190
				Baldwinsville	155	0208	MECO			Geneva, "Q-102"	150
	MOGN	99.7	ΗI	Midland, Stn. # 300	300	6/21		(92.5			
6/76					A0=		KMYO			Broken Arrow,	1120
<000	ALEX	92.3	UH	Cleveland Heights	285	1		,	"Ca	meo-92"	

- Continued -

8/3	Es to Orlando: Heard in car, two miles	8
from	Cottage. called collect; they were raising. Told em I support Buffalo PR.	ō
fund	raising. Told em I support Buffalo PR.	8
8/3	Es unID 94.5 ?? "G=94." ad: lowcost	O
231 R	110 TD Q4.5 22 "Q-Q4." ad: lowcost	2

automatic transmission unID 103.5 ?? MS? French 1833 WJCT 89.9 FL Jacksonville, "\$-90"

1845 WCKX 95.7 FL Clearwater. "96-Kicks" 1848 W??? 92.7 FL ? 1850 WMNF 88.5 FL Tampa 1855 WQYK 99.5 FL St. Petersburg

<u>8/7</u> 0217 94.7 NJ Newark WFME

8/8 MS 0512 WPCM 101.1 NC Burlington, ad for Dodge 2250 KWER 97.1 AR Camden, QTH & phone no. 97.3 KS Garden City. 2342 KBUF "...KBUF countrytime..."

0013 KBUF 97.3 KS Garden City, ID, k and a whole weather report. See comments. 8/11 MS

97.1 ?? stn. on Mil. Brewers net. 0105 unID 97.1 WI Sparta's WCOW? 97.5 MB Winnipeg. 0106 CHMM

ID under/over CKO-1.

1856 WOXM 97.9 FL Clearwater Some great Es openings here...but most stayed around TV-4. Four hit 107.9. Our postal strike - 39 days - is the cause for my reporting all this at once. The MS was nice. On 8/9 at 0013 I got what could be loosely called a burst. It was not Es. Nor was it tr or Au. Just one short l'il 13 minute MS "burst" featuring many ID's, k, (many songs), and a whole weather report from KBUF 97.3 Garden City, KS. I had them on 8/8 at 2342 also, on another burst prior to this "bonanza." This has got to be a record!? A bit of Au and a few tr over 500 miles. I'll probably miss Sept. as I'll be settling in at DX QTE #3...Ottawa. My address will remain Toronto unless I state otherwise. I'll be at Carleton Univ., (home of 93.1 CKCU!). May we all get Es so strong they short-cut 73's. Saul Chernos our toasters. +++++

Morris Sorensen - 53 Duncan Avenue - Kirkland Lake, ON P2N 1X9

Kirkland Lake, ON (365 hwy. mi. N of Toronto), has been my home QTH for most of the summer, but I also logged some DX From other locations while travelling to the ANARC convention in Thunder Bay. Equipment: Panasonic RF-2900 and Panasonic RF-1148 (Kirkland Lake). Realistic Portavision 12-669 (other locations). All with "whip" antenna.

2.2.0,0	
7/5 tr (from Kirkland Lake)	7/14 tr
1028 CHAY 93.1 ON Barrie	2213 WIMI 99.7 MI Ironwood
1042 CJMX 105.3 ON Sudbury	2230 CJSD 94.3 ON Thunder Bay
7/5 Es	7/15 tr
1855 WGMB 97.7 SC Georgetown, "98-Rock"	1057 WJPD 92.3 MI Ishpeming
1930 WABB 97.5 AL Mobile	1102 WFNN 104.7 MI Escanaba
1935 WIZD 98.7 FL Ft. Pierce	2155 WMQT 107.1 MI Ishpeming
1945 WCKS 101.1 FL Cocoa Beach, "CK-101"	2200 WUPM 106.9 MI Ironwood
1945 WCKS 101-1 FD 00002 Deach, 08-102	7/26 tr (Back in Kirkland Lake)
1950 WOXQ 101.9 FL Daytona Beach, "Q-102"	0923 WJML 98.9 MI Petoskey
2101 WMTM 93.9 GA Moultrie, "FM-94"	
7/12 tr (from Wawa, ON)	7/26 <u>Es</u>
1915 WJPD 92.3 MI Ishpeming,	1630 WAIM 101.1 SC Anderson, "Rock-101"
"American Country-92"	1636 WQLO 98.7 SC Beaufort
1929 WHWL 95.7 MI Marquette	1655 WXRG 95.7 NC Hickory
	1705 WZAT 102.1 GA Savannah, "Z-102"
7/13 tr	1715 WPAP 92.5 FL Panama City
2050 WNMU 90.1 MI Marquette	7/29 tr
7/14 Es (from edge of Pays Plat Indian	
Reserve west of Rossport, ON)	0813 CBON 104.9 ON Gogama, (CBON-21)
2205 WQST 92.5 MS Forest	8/3 Es
(All Limes DIVE)	2034 WESP 94.1 PA Philadelphia, "94-Rock"
T had an enjoyable time at ANARC. Most of	the people in attendance were SWLers, but I
I mad an onjoyable vill as	

but I did have a brief chat with FM "DX-Pert" Bruce Elving. On my return trip, I visited Duluth and travelled the south shore of Lake Superior to Sault Ste. Marie. 73. Morris

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

+ + + + + +

Not much DX to report. All DX from Prosit, MN location, with a Heath AJ-15 and a 5 element antenna. Sure was a rotten month for Es compared to some other August's.

8/8 Es (10	4.1 MUF, but no	o more ID's)	
	94.1 MUF, but no 92.5 MS Forrest		
0945 WQUE	3.3 LA New Orl	eans, r,	
•	music o		

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1900 KGMK 93.3 IA Des Moines
1930 KAYL 101.5 IA Storm Lake
       Regards, John
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Robert S. Ross - VE3JFC - Box 4373, Stn. C - London, ON N5W5J2 Equipment: Marantz 2226 w/Beam Yagi at 130 ft.

ŧ					-4	- P							,			
	<u>5/31</u>	tr			89.7				7/7	tr					Pittsburgh	
,			0004	MIAA	99.9	PA	Erie	80	1		0403	WZIR	98.5	NY	Niagra Fall	s125
			0006	WQXL	105.1	OH	Salem	150							Pittsburgh	180
			0320	CING	107.9	ON	Burlington	80	i		0407	WDBN	94.9	ON	Medina	125
							Brampton	110			0408	WBLK	93.7	NY	DePew	170
	6/4	tr	0319	WSEG	102.3	PA	McKean	100]		0415	WHFM	98.9	NY	Rochester	180
,		_	0325	WZPR	100.3	PA	Meadville	115	i						Toledo	150
,	6/18	tr	0710	MANO	106.1	OH	Mansfield	175	1		0425	CING	107.9	ON	Burlington	80
			0715	WREO	97.1	OH	Ashtabula	90	ļ		1800	WBIV	107.7	NY	Wethersfiel	d
			1223	WAUP	88.1	OH	Akron		8/27	tr	0138	WAUP	88.1	OH	Akron	130
	6/26	<u>tr</u>	1229	WYSU	88.5	OH	Youngstown								119 verifie	d)

+ + + + + + Dr. Bruce F. Elving - 4515 Avenue "E" - Kearney, NE 68847

Much more skip to report since my last report, including the biggest-ever siege of California, lasting after 0240. Brief skip 6/18 1645 CDT (EST) gave WEMU *89.1 from Tpsilanti MI pleading with the public for funding help in view of MI's budget reductions; June 21: WWBD-FM Bamberg SC 1500, WACG *90.7 Augusta GA 1505; WKWQ 103.1 Batesburg SC 1507; WNCT-FM 107.7 Greenville NC with Muzak SCA at 1602; WRVL *88.3 Lynchburg VA 1611, mentioning being a new station on the air; WBAG 93.9 Burlington NC 1615; WEAA *88.9 Baltimore 1700. Northwestern skip took place 6/23 with KING-FM, "Classical King," giving its legal ID at 0900; and non-skip KYNR 99.9 Pueblo CO at 1000, solving the mystery of which easy-listening station calling itself FM-100 I could occasionally hear on that frequency. As we were about to go to bed 6/24 I noticed interference on the clock radio Carol was using, so I slid over to the Fisher, and latched onto KRSE 98.3 Takima at 2317; KNBQ 97.3 Tacoma at 2329, KOLU *90.1 Pasco WA 2331; KAST-FM 92.9 Astoria OR in full stereo at 2336; KHPE 107.9 Albany OR 2339, and KMJK Lake Oswego OR at 2341. On 6/25 I picked up: WAKG 103.3 Danwille VA at 1245; WVLK-FM 92.9 Lexington KY at 1248; WOWI 102.9 Norfolk at 1305; KNAX 97.9 Fresno CA at 1345; WIAA *88.3 Interlochen MI at 1530; KSDM 94.3 International Falls, for my first MN skip, at 1600. CFLY 98.3 Kingston ON with full ID at 1700; WRSU *88.7 New Brunswick NJ at 2105 mentioning being back on the air after technical difficulties, and wondering if still getting out; WBYO 107.5 at 2112; WCHR 94.5 Trenton NJ at 2115. June 26: CKRL"-FM" *89.1 Quebec in French with full ID and calls heard several times on my tape at 0800; WBJC *91.5 Baltimore MD 1212; WRCV 92.1 Mercersburg PA 1215; WDBN 94.9 Medina OH at 1220 and WBLS 107.5 New York at 1230. Tropo gave, on 7/1, WJMC-FM 96.3 Rice Lake WI 0816; WGGR 105.1 Duluth MN 0830; KBEM *88.5 Minneapolis MN 0900; WHWC *88.3 Menomonie WI 1030; WHSA *89.9 Brule WI 1100; WHRM *90.9 Wausau WI 2300; WIFC 95.5 Wausau WI at 2301. Skip July 4: WJCT-FM *89.9 Jacksonville FL at 1000. July 5: WLRE *89.3 Huntsville AL 1800: WDMG-FM Douglas GA 1803; KQKI 95.3 Bayou Vista LA 1900; WWOZ *90.7 New Orleans without stereo 1905; WWNO *89.9 New Orleans 1926; KTRU *91.7 Houston 1945; WMOT *89.5 Murfreesboro TN 2000. On 7/8: WKYD-FM 98.1 Andalusia AL at 2105; WABB-FM 97.5 Mobile 2122; WUSF *89.7 Tampa 2130; KENW-FM *89.5 Portales NM 2154; KCBI *89.3 Dallas (weak--sounded like tropo, with no other Dallas reception at the time). 2300; KUNR *88.7 Reno NV 2354; KRFD 99.9 Marysville CA 2359.

This session lasted into the wee hours of the next day, July 9, for the best, and virtually only long period of skip I have ever experienced after sundown. I went to bed before it was over, with CA stations in full refulgence. At OOOO KNEV 95.5 Reno; at OOO1 KSRN 104.5 Reno; OOO5 KPDJ Eureka with "X" SCA; OO12 KPAY-FM 95.1 Chico CA; then KABL-FM 98.1 San Francisco at 0026; KOIT 96.5 San Francisco after the sign off of nearby KRGI-FM Grand Island NE at 0030; KBRG 105.3 San Francisco, ethnic, with English ID at 0034; KKBC now country Carson City 97.3 at 0045; KOSO 93.1 Patterson CA at 0059. with KRVN-FM Lexington NE off the air; KZOZ 93.3 San Luis Obispo CA with legal ID at 0100; KMPX 98.9 San Francisco at 0130 with local off; KUOP *91.3 Stockton at 0135 with local off; KPFA *94.1 Berkeley at 0137 (earlier in the night heard its new SCA talking book service); KQKK 96.7 Manteca CA at 0156; KCSM *91.1 San Mateo CA at 0203; KWOD 106.5 Sacramento at 0230 and, getting tired, I called it quits with the 0240 logging of KUIC Vacaville CA on 95.3. July 10 skip gave WEBC-FM 94.1 Canton OH 1015; WDJQ 92.5 at at 1030 with "X" SCA; WNRR 92.1 Bellevue OH 1035. Tropo July 12: KIWI 105.3 Dubuque 0830: KNOD 105.5 Harlan IA 0833; KBBG *88.1 stereo Waterloo 0857; KCNB 105.7 Waterloo 0859; KHKE *89.5 Cedar Falls at 0900; KTLB 105.5 Twin Lakes IA 0930.

Meteor scatter 8/12 at 0834 gave WBES 96.1 Charleston SC with full ID. Tropo KADI-FM 96.3 St. Louis 0830; WAAG 94.9 Galesburg IL 0859. On 8/17 WKYU *88.9 Bowling Green KY (tropo) at 0830. KUMR *88.5 Rolla MO 8/20 at 1015, and on 8/21 I picked up WRLO

105.3 Antigo WI with Milwaukee Brewers baseball at 2032 and no non-id; and KRNA 93.9 in Iowa City at 2230.

My Duluth log had only one station added to it: WKKQ-FM 93.9 Hibbing with k and an excellent SCA music subcarrier; just beautiful audio! I had temporarily lost track of part of that log, and had to review DX tapes and other sources to come up with a total of 1473 stations received there since 1948.

This seems to be the best location in which I have lived for skip, with the number and length of skip catches to CA surprising. Still, no Los Angeles reception. Even while Fred McCormack was getting Los Angeles in North Dakota, I was not, as you can tell by comparing our reports in the August VUD.

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

8/3 tr		18/14 tr
2200 KUNI 90.9 IA Cedar Falls, p	380	2356 WVCS 91.9 PA California, r 310
2206 KBCM 95.5 IA Sioux City, k		5 8/15 tr
2209 KNWS 101.9 IA Waterloo, wx		0044 WCSB 89.3 OH Cleveland, r 200
2228 KHKE 89.5 IA Cedar Falls, c		0058 WYEP 91.5 PA Pittsburgh 290
2246 KYNN 94.1 NE Omaha, k		0103 WMBW 88.9 TN Chattanooga, g 415
2257 KPLL 103.3 IA Pella		Olo8 WMOT 89.5 TN Murfreesboro, r 360
2301 KLYF 100.3 IA Des Moines, m		5 8/16 tr
2302 KRNQ 102.5 IA Des Moines, r	425	1858 WOBO 88.7 OH Owensville-Batavia 140
8/13 tr		(This station shares time with WCNE
2230 WTMB 98.9 WI Tomah, m	340	
8/14 tr		8/17 tr
0609 WUTC 88.1 TN Chattanooga, c	415	5 2200 WKMS 91.3 KY Murray 345
0609 WUOT 91.9 TN Knoxville, c, o/WFPK		8/22 tr
2100 WXBQ 96.9 TN Bristol, k		2302 <u>WETN</u> 88.1 IL Wheaton, g 160
		5 <u>8/31 tr</u>
2140 WLUW 88.7 IL Chicago, r, 10w		
2300 WVPM 90.9 WV Morgantown	300	9/1 tr
		2347 WLRA 88.1 IL Lockport, r 145
		schedule, which has allowed me to log other
		Chicago area. I have WETN listed as having
		ll toward SE to protect WDGC 88.3 Downers
Grove, also 250 watts). Does anyone know	ow i	if I'm correct? 73s, Bob
,	+ +	+ + + +

Daniel E. Oetting - 2882 Old Cedar Grove Rd. - Broomall, PA 19008 Equipment: Panasonic RF-2600 w/Archer 10 element log yagi FM antenna directed NW at 25 ft., telescoping "whip" antenna, and two tape recorders. New underlined.

ited carescohing auth. autenna! and can ca	he recorders, was muder.TIUAG.
7/3 tr	7/8 Es 1758 WBKF 92.1 FL Macclenny, (FL state nx
	and ad for Baker County)
2315 WMJW 92.1 PA Nanticoke	7/0 Pa
7/5 Es 1800-1930 lots of Es, but no IDs.	7/9 Es 0913-1005 FL relogs
1000-1930 lots of Es, but no lbs.	OATO-TOOD LE LETORE
1930 unID 92.1 MO ? MO nx 1935 WCIL 101.5 IL Carbondale, ad	7/19 tr
1935 WCIL 101.5 IL Carbondale, ad	0900 NIC in very good
1938 KCEZ 94.9 MO Kansas City	0915 WLNG 92.1 NY Sag Harbor
1942 KJEZ 95.5 MO Poplar Bluff, "Z-95" 1950 KATT 100.5 OK Oklahoma City, "Cat"	7/22 Es
1950 KATT 100.5 OK Oklahoma City, "Cat"	0918 KNCT 91.3 TX Kileen
1958 unID 106.5 ?? r. WWWK?	0933 KHYS 98.5 TX Port Arthur, "Kiss=98"
1959 KCFO 98.5 OK Tulsa	1000 KUHF 88.7 TX Houston
2006 KMAZ 92.9 NE Beatrice, KMAZ radar wx	
	7/26 Es
2010 unID 103.3 ?? "K-103" 2014 <u>KASU</u> 91.9 AR Jonesboro	1336 unid 91.5 ?? j
2017 WEIR OI O II Cambandala	1349 WTWV 95.5 At. Dothon
2018 KWTO 98.7 MO Springfield, "Rock-99"	1350 WGNE 98.5 FT. Panama City. "0-98"
2018 KWTO 98.7 MO Springfield, "Rock-99" 2025 KTJJ 98.5 MO Farmington, (ad for	1351 WBLX 92-9 AL Mobile
2039 WRUL 97.3 IL Carmi	1357 WILWE 88.1 Ft. Wilton-Persecole
2022 VDTD 02 0 my Washing Polls	1401 WPCS 89.3 FT. Paragonia
2020 Mate 25.4 IV Alcuite Sails	1401 WKGC 90 7 FT Parama City
2039 WRUL 97.5 IL Carmi	1410 WABB 97.5 AL Mobile
7/6 tr	1/17 WALDE 97.0 AL MODILE
0853 WILC 105.1 PA Williamsport	141/ WALE 9/41 MS METICIAN
0906 WVOR 100.5 NY Rochester	1422 WLIN 95.5 MS Jackson
7/8 Es 1122-1208 FL relogs	1425 NUF off FM
1122-1208 FL relogs	1503 FM hit again
1645 unID 94.9 ?? d	1929 MUDY 03.9 AT BLUTE
1722 WOXM 97.9 FL Clearwater, "98-Rock"	1524 WSCD 92.9 MN Duluth

- Continued -

NORTHERN FM DX	Dan E. Oe	tting cont'd:		OCTOBER 1981
7/26 Es		8/8 tr		
1531 WJMC 96.3 W	I Rice Lake	2146 WFCR 8	8.5 MA Amherst	
1534 KQDS 94.9 M	N Duluth		9.7 MA Boston,	good signal
1536 WIFC 95.5 W	I Wausau	<u>8/10 tr</u>		
1538 unID 89.7 ?	? SS	0216 WCVT 8	9.7 MD Towson	
	I LaCrosse	8/22 tr		
1545 WHHI 91.3 W	I Highland	0830 WOCO 10	3.9 MD Berlin,	r, "OC-104"
1549 WCOW 97.1 W	I Sparta	8/24 tr		us often us obu
1556 KOEL 92.3 I	A Celwein I Madison			th City, "K-94"
1559 WERN 88.7 W	I Madison		e station info	
1600 unID 92.1 ?			3.5 DE Georget	
	N Timmins, in very good a		being between	two locals.
times through 163		8/24 As	3.7 ?? m. Ante	una ta NW
	I Superior, quite strong		15.7 Tr m, Ance.	mila co iva-
	nly 940 watts.	8/29 As 2300 WCNY 9	1.3 NY Syracus	•
1710 S. FL Relogs	A Dubuque, "D-93"		1.5 KI SYFACUE	•
8/4 tr	•	8/30 tr	Norfolk VA DX	
0023 WSFM 99.3 P	A Hammichuma	8/31 tr	MOLIOTE AN DY	
8/6 tr	A Harrisourg		2.1 NC Moyock	
1030 WILO 105.1 P	A Williamsnort	9/3 tr	Zei no nojock	
8/6 Es	A WIIII AMB POIC		6.5 NC Bridget	on, in clear
1757 FT. panhandle	and Mobile AL relogs		8.5 MA Amherst	,
1900 Es off FM			7.3 MA Worcest	er
2303 KBBG 88.1 I	A Waterloo		1.7 CT Storrs,	
2330 Es off FM			0.5 CT Middlef	
8/7 Es		0214 WKSS 9	5.7 CT Meriden	, "Kiss"
2022 S. FL skip		0220 WKZE 10	4.7 MA Orleans	Cape Cod wx
2051 WDNA 88.9 F	L Miami	0226 WEZS 10	3.7 VA Richmon	d, wx & ID
Log Total: 385.	So far this year has been	slightly abov	e average for	E-skip, but tr
	ow par; however, the end			
	ce my DX records here beg			
	s for tropo. I've ranked			
	om ME, NH, VT, & N. NY).			
	6/3/79 (DX from VA & NC).			
	dy else ranked their all-	time best Es a	und/or tropos?	
Sept. is as good	as it can get.			73s, Dan
	+ +	++++		

Patrick Durkin, Jr. - 1940 Oakdale Ave., Apt. 305 - West St. Paul, MN 55118 Equipment: West St. Paul: Pioneer SX-850 w/folded dipole or GE Superadio w/whip, both at 35 ft. West Allis: GE Superadio w/Winegard CH-6065 at 35 ft.

£	-	_						
8/2 MS (DX from West	St. Paul, MN)		8/20	tr				
0315 <u>WYYD</u> 96.1 NC Ra	leigh, m	975	2359	KGRS	107.3	IA	Burlington, r	290
8/4 tr		ı	8/21	tr				
0105 KBCM 95.5 IA Si	oux City, k	225	0019	KMGK	93.3	IA	Des Moines, r	220
8/6 tr							Debuque, m	200
0005 KAXE 91.7 MN Gr	and Rapids						Madison	215
8/11 tr							Ironwood, r	190
2349 WKKQ 93.9 MN Hi	bbing, k						Pequot Lakes, g	140
2352 All Duluth-Super	ior FM in strong				92.1	WI	Hayward	105
8/12 tr			8/23					
0000 KSJR 90.1 MN Co.							LaCrosse, m	115
0005 WLSU 88.9 WI Lac	Crosse						Burlington, r	290
8/15 tr	-1.3						Rockford, r	265
1000 WHHI 91.3 WI His	gniand						Iowa City, r	230
2135 KDLO 96.9 SD Wat	***						Cedar Rapids, k	210
2146 KCMT 100.7 MN Ale	tertown		0330		94.9	TA	Des Moines, r	220
2148 WKLK 100.9 MN Cl	exandria		8/24		107.0	T.	Madamia Emini - ee	3.66
2155 WHSM 101.7 WI Hay	eneral .		<u>8/31</u>		107.9	TW	Waterloo, KTWN off	165
2231 KINI 96.1 NE Cre		100	쏬쑮	WENT	OL 5	WT	Milwaukee, KSTP off	380
2245 KLOH 98.7 MN Pi			9/2		2702	**	milwaukee, Kolf Oll	200
2254 KIIK 103.7 TA Day	Vennort r	260	***	X WTT	90.3	TA	Sioux City	225
2300 KTOF 104.5 IA Ce	dar Rapida. #	270	0019	KOAT	89.5	MN	Winona, low power	95
2313 KLZR 105.9 KS Lav		420	9/5	tr (X from	. W	est Allis, WI)	9)
2320 KKRD 107.3 KS Wi		550	1505	WASK	105.3	TN	Lafayette, k	190
2338 KBCM 95.5 IA Sic							Rensselaer	155
2356 KBBG 88.1 IA Wat); West Allis: 418)	
<u> </u>		-					,	

NORTHERN FM DX

DX this month consisted mostly of tropo openings, although I did notice many MS bursts during the Perseid meteor showers. The bursts became longer and more frequent as the peak approached, but I was only able to identify WYYD-96.1 Raleigh, NC, whose burst lasted just long enough for them to ID.

I'm not including relogs of many stations in the 150-200 mile range, since I'm discovering that these stations come in on a regular basis. These stations are mostly 100 KW'ers from Northern IA, central and W. WI, and from all over MN.

There was excellent trop in the period between 8/20 & 8/24, especially on the evening of 8/20. I never thought 550-mile trop could be logged with a simple whip antenna! I called the DJ at KKRD in Wichita (the 550 mile catch), and he was shocked. After the next song he mentioned that he'd received a call from a listener in the St. Paul-Minn-eapolis area. Also, on 8/31 KSTP-FM went off the air, enabling me to log WKTI-94.5 Milwaukee, which now makes 3 former local stations I have received from my new home.

I'm visiting my parents this Labor Day weekend and have tried DX'ing here, but haven't seen or heard much DX except for a decent opening into central IN on Saturday afternoon. Until next time.

73s. Pat

Fred McCormack - 135 Prairiewood Drive - Fargo, ND 58103 Equipment: Heath AJ-1600, Winegard CH-7078

8/8	Es					18/15	tr				
		92.3	TN	Chattanooga,"FM-92"				103.7	IA	Davenport, "Kick"	480
2205	WJCL	96.5	GA	Savannah, MoR	1315	2138	KEZO	92.3	NE	Omaha, "Z-92"	390
2218	WMYU	102.1	TN	Sevierville, "U-102"						O'Neill	320
				Harriman						Omaha	3 90
								102.7	NE	Lincoln	
				Smyrna, "94-Q"		8/20					_
				Macon, "Easy-108"				97•5	MN	Rochester, MoR	285
				Savannah		8/28					
				(Does anyone recogni				90.5	ND	Bismarck, new on air	190
					1100						
		103.9	GA	Greensboro, "G-104"	1160					Mitchell, ex-102.3	225
8/15								95•3	SD	Pierre, r, s/off	245
1742	<u>KTOF</u>			Cedar Rapids,	425	9/4					_
_		"Suns!								Vermillion, k	280
1819				Ames,	400			105.5	ΙA	Sheldon, football	260
				t Rock, FM-107"		9/5	tr				
2059	KXCV	90.5	MO	Maryville	460	10337	WJEZ	104.3	IL	Chicago, "\$-Country	570

+ + + + + + Richard Reese - 421 Marion St. - Jersey Shore, PA 17740

8/6 Es		8/6 Es
1639 KIPR	95.5 TX Diboll, ad	2305 KESY 104.1 NE Omaha, m
1653 KWWR	93.3 MO Mexico, ID	2323 WQID 93.7 MS Biloxi, ad
1653 WMFE	93.3 MO Mexico, ID 90.7 FL Orlando	2325 KROK 94.5 LA Shreveport, r
1657 WIYD	99.9 FL Palatka, ad	2326 WKSJ 94.9 AL Mobile, ID
1658 WWUS	93.5 FL Big Pine Key, nx	8/8 Es
1659 WSWN	93.5 FL Belle Glade, ID	1930 WMCU 89.7 FL Miami, g
1701 WMUM	94.3 FL Marathon, m	1952 WWWL 93.9 FL Miami Beach, r
1732 WQUE	93.3 LA New Orleans, r, "Q-93"	2049 unID 93.1 ?? ? Dallas FB program
1745 WRMB	89.3 FL Boynton Beach, ID 99.5 FL Miami, town 93.5 GA Hazelhurst, ad 90.9 GA Valdosta 93.3 FL Tampa, m 95.7 FL Clearwater, r 94.9 FL Tallahassee, ad	8/9 MS
1758 WEDR	99.5 FL Miami, town	1245 KIXS 93.3 TX Killeen, ID
1818 WVOH	93.5 GA Hazelhurst, ad	8/9 <u>Gw</u>
1822 WVVS	90.9 GA Valdosta	1329 <u>W280AB</u> (WPGM xltr)
1829 WFLA	93.3 FL Tampa, m	103.9 PA Williamsport, testing
1839 WCKF	95.7 FL Clearwater, r	8/12 MS (fantastic)
1841 WLVW	94.9 FL Tallahassee, ad 93.5 FL Ft. Myers, k	0927 WMC 99.7 TN Memphis, wx
1846 WSUR	93.5 FL Ft. Myers, k	1007 KMGK 93.3 IA Des Moines, ID
1847 WCVU	94.5 FL Naples, m	1035 KAUS 99.9 MN Austin, ad
1849 WYNF	94.9 FL Tampa, pr	1059 WMYU 102.1 TN Sevierville,
2037 KYKR	93.3 TX Port Arthur, k, "Kicker"	"Knoxville fire"
2212 unID	93.3 TX Port Arthur, k, "Kicker" 93.9 MN? Ment. Hibbing 89.1 ?? French	1110 KWFC 97.3 MO Springfield, ID
2248 unID	89.1 ?? French	1205 KLAW 101.5 OK Lawton, town
	Oyer French	TEOD WINE TOTAL ON DEMICOIL COMI
2250 unID	89.3 ?? French	1219 KTMO 98.9 MO Kennett, ID
2250 unID	89.3 ?? French	1219 KTMO 98.9 MO Kennett, ID 1229 KBRY 102.9 NE O'Neill, ID
2250 unID 2255 WPAP 2256 KEZO	89.3 ?? French 92.5 FL Panama City, k 92.3 NE Omaha, r. "Z-92"	1219 KTMO 98.9 MO Kennett, ID 1229 KBRY 102.9 NE O'Neill, ID 1258 WORA 107.7 FL Mt. Dora.
2250 unID 2255 WPAP 2256 KEZO 2257 KKNG	89.3 ?? French 92.5 FL Panama City, k 92.3 NE Omaha, r, "Z-92" 92.5 OK Oklahoma City, m	1219 KTMO 98.9 MO Kennett, ID 1229 KBRY 102.9 NE O'Neill, ID 1258 MORA 107.7 FL Mt. Dora, "In Orlando, this is Joy, FM-108"
2250 unID 2255 WPAP 2256 KEZO 2257 KKNG 2301 KJAN	89.3 ?? French 92.5 FL Panama City, k 92.3 NE Omaha, r, "Z-92" 92.5 OK Oklahoma City, m 103.7 IA Atlantic, BB	1219 KTMO 98.9 MO Kennett, ID 1229 KBRY 102.9 NE O'Neill, ID

8/12 MS
1324 KSKU 102.1 KS Hutchinson, ID
1325 KTPK 106.9 KS Topeka,

"...Living in KS..."
1358 KEZT 104.1 IA Ames, ID
The meteor scatter of 8/12 was teriffic. I noted several bursts per minute on FM, and lots of bursts on hi-band. The Es of 8/6 was also nice. This summer provided me with lots of new loggings, bringing my total to 754. I hope the season was good to everyone.

TECHNICAL TOPICS



Q: "What is the most common VHF TV DX antenna among WTFDA members? Is this the best type, or a compromise?"

A: There seem to be almost as many types of VHF TV DX antennas in use as there are WTFDAers, but in recent years, there has been one top-line model that's gotten a lot of good results. The antenna is the Channel Master Quantum 1110. While this antenna does not have the highest gain figures available to TV DXers (that distinction may belong to Channel Master's giant 3617B "Crossfire"), it offers what probably is the best front-to-back ratio, and the deepest nulls of any commercially available VHF TV antenna. We're not trying to sell Channel Master antennas here--Winegard and Jerrold also make extremely "hot" top-line antennas for VHF TV--but it seems as if top TV DXers agree that Channel Master's 1110 and 3617B are the ultimate in a single antenna for VHF TV DXing. The 1110 seems to have the edge on the 3617B these days, because of the sharper nulls, which are more important to most DXers than the slightly greater forward gain of the 3617B. Also, the 3617B has a boom length of 195 inches--over 16 feet--as compared to the slightly shorter boom on the 1110. It should be pointed out that all broadband antennas are a compromise, to some extent. For the ultimate performance on one particular channel, you'd get the best results with a yagi cut for that channel, assuming it was a large, well-designed MATV-quality model.

Q: "What if you use a low band yagi and a high band yagi for DXing TV? Would this work better than a single log-yagi for the VHF TV channels?"

A: Chances are your results would be no better than if you used a large topline log-yagi such as the 3617B. While this sounds as if it should produce much better DX performance, there are several things that should be considered. First of all, you may lose any gain advantage that separate low- and high band yagis give you if you mount them on the same mast, or close to each other. Secondly, if you combine the high- and low band antenna outputs, the loss in the combiner (insertion loss) may be just enough to make it not worth the expense and the effort. Single high band log-yagis are great for TV DXing, and in many cases will out-perform VHF TV broadband (ch 2-13) logyagis for DXing, but only if you use them properly. If you really get serious about a certain aspect of TV DXing -- say high band meteor scatter, for example, two highband log-yagis properly stacked are the way to go. Or, if you want better tropo results at high band, a single ch 7-13 log-yagi with a low-noise preamp and a separate run (i.e., apart from your low band DX antenna) of lead-in to your DX receiver will be hard to beat. It should be noted that the nulls of a Quantum 1110 are actually sharper, on the high band TV channels, than those of a single ten-element high band yagi. A stack of high band antennas however, will easily outperform even the best VHF broadband ch 2-13 log yagi antennas. For general VHF TV DXing, it's best to start with a ch 2-13 antenna, and upgrade from that.

CORNER

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

YOUR RADIO HOST ON THE SEACOAST HEB-FM PORTSMOUTH, NEW HAMPSHIRE Verify Year Reception Of WHEB On

WHER-FM 100.3Mhz. Portsmouth, NH Chief Engineer. Tony Vaccaio ... McVev

92.7 Sudbury, Box 400, PSE 4P7. Letter from Eileen Forbom. Manager. Chernos CKOT 101.3 Tillsonburg, Box 10, N4G 7M3. Letter from Robert Lamera, Eng. Chernos 95.9 London, 369 York St. P. O. Box 2580, N6A 4H3. Letter from W. J. Brady, Program Manager. Chernos CKNX 101.7 Wingham, NOG 2WO. Letter from Scott C. Reid, Dir. of Eng. send me bumber stickers, 1 rainhat & pocket pen holder. (cheap plastic bag & plastic case, that doubles as a plattic bag) Oshawa, 360 King St. W., Lij 2K2. Nice letter from John Smith, Production CKQT 94.9 Mgr. Also send stickers, these guys former non-verifiers, but seem good now that way. (?)-ed. Northbay, Box 3000, P1B 8K8. Typed veries on back of sheet of paper he'd CKAT 101.9 written a message (unrealated) on ...ie, scrap paper. Also din't specify CFCH-AM or CKAT-FM, so I ticked CKAT, honestly! He tells me "You're not the only person who has picked us up before. Our signal is such that its aimed in a southerly direction & this event is not uncommon." Being 115 air miles south, he's got a point there, hi! Signed by Bob Tanozyn, P.D. CILO 107.1 Toronto. 2 Bloor E. Suite 3000, M4W 1A8. Thanks me for my letter of 'off-air' reception (!?!?!?) Generally a "despite you're so close" ? Verie signer did sign, but in Engineering. 93.1 Ottawa, Room 517, University Centre, Carleton University, K1S 5B6. CKCU Letter from Randie Long, the announcer on duty at time of my reception, says, "We have never received a report on anyone hearing us over this distance." Reply back in 10 days. Also se d program guide. 94.3 Montreal, 225 Est, Rue 26, Suite 26, H2W 1M5. Folder containing a CKMF letter in French (for report in same), sticker, poster, coverage map, (cuts off abruptly at U.S. border) & program suide from Yves Guerard, Director General, in 10 days, Very specific verie text. Wood KISR 93.7 Fort Smith, P. O. Box 3100, 72913. Form on report was signed by Deborah Dunn, Traffic Manager. Also received a bumber sticker in 8 days. My first Arkansas confirmed! George Davemport, 1706 Brady St, 52803. Letter from Kenneth E. Coldwell. KRVR 106.5 CE in 15 days. IL WIBI 91.1 Carlinville, P. O. Box 126, 62626. Letter from Bob Miller, CE. Zank

95.1 Decatur, 265 S. Park St., 62523. Letter from Fred Moore, CE Zank

FM-OSLs IN WRIA 101.3 Richmond, P. O. Box 1646, 47374. Send rate card & my prepared card for verification. from William Quigy, Manager. Boston, Emerson College, 130 Beacon St. Letter from Dennis N. 88.9 Cooper Miller. PD. Salisbury, Radio-TV Park, 21801. Earlier had returned my prepared WCHO 104.7 card after follow up, but today received QSL Card with map from Bruce Wharton, A.C.E. Holbrock Minneapolis, 215 S. 11th St. 55403. Letter from John F. Harding, WCC0 102.9 Hemnel CE, in 1 month. St. Paul, 3415 University Ave., 55414. Letter from Neil Swanson, Hempel FM Engineering Supervisor. Reply back in 4 days. KEEY 102.1 St. Paul, 611 Frontenace Place, 55104. Letter from Scott Christensen, Chief Engineer. Hemoel WKKQ 93.9 Hibbing, Box 1060, 55746. Jerry J. Collins, General Manager. Verified for main channel & SCA, saying my letter "brightebed my day" A few days later, Mark Person, Brainerd, MN, their consulting engineer wrote wondering about my SCA equipment. KZIO 102.5 Duluth, 1105 E. Superior St., 55802. Letter from Phil Maki, CE. Verifies for this station licensed to Superior, WI. but studos & offices above address. Transmitter in Duluth, 100,000 watts. Elving Norfolk, 300 Madison Ave, 68701. Letter from Bob Morris, CE. Reply KNEN back in 4 days. Hempel. NV KUDO 93.1 Las Vegas, 3595 Las Vegas Blvd., South Las Vegas, NV 89109. Letter & calling card in 6 weeks from Ron-Scott Maesti, Public Affairs Dir. Said my report was featured in a local newspaper column, but did not send a copy of it. Said he would call me for an interview, but have so far heard nothing. NH WHOM 94.9 Mt. Wasington, P. O. Box 4040, Portland, ME 04101, Letter & info folder including coverage map & an interesting letter from WTFDA'ers Dr. Bruce Elving, on FM Atlas letterhead, confirming that per his calculations. WHOM has the largest land coverage of any U.S. FM station. Said my report was the most distant. Reply in 2 months. Wood. Laconia, Parade Rd. 03246. Letter & 2 bumber stickers in 3 weeks from WT.NH Paul Shulins, CE. Said my report was most distant. Mood New Brunswick, Box 100, Broadcast Center, 08903. Letter with a color WMGQ post car showing new studios & antenna, from John A. Stanley, CE Holbrock WKXW 101.5 Trenton, 218 Ewingville Rd. 08638. Returned prepared card after follow Holbrook up report. Signer was W. A. Musser. GM. wwill 107.1 Long Branch. 156 Broadway, 07740. Returned prepared card after a follow up report. Signer was Ted J. Cain, CE. Holbrook Buffalo, Buffalo Hilton, Church & Terrace, 14202. Letter from Walter NY WACJ 104.1 Ross Williams. CE in 3 weeks. Jamestown, Box 1199, 202 Front St. 14701. Letter from Burton O. Waterman. WHUG 101.7

Saegertown, P. O. Box 321, 16437. Letter from Bruce W. Dawson, Sales Manager. Ellis Lubbock, Texas Tech. Univ., Box 4080/Box 4710, 79409. Letter from Mark TX KTXT Slusher, Station Manager. Send letter, copy of program menu in 8 days. A week after got first letter, got a memo & bumber sticker from Mark Norman, General Manager. Reporters for this month 2 pager are: Saul Chernos, Richard Wood, Tim McVey. Charles

Ms. Lawson. First New Mexico for me on FM.

Geneva. Box 213. 609 W. Washington, 14456. Letter from Steve Reynolds,

P. Dir. Confirmed my reception on my report letter in 4 weeks. Ross

Lawson, Traffic/Special programing Coordinator. Send bumber-stickers

Hobbs, 619 North Turner, 88240. Letter in 40 days, signed by Cissy

business card, newspaper clipping with KZOR Building & picture of

CE in 2 weeks.

WECQ 101.7

NM KZOR 94.1

PA WYSS

George, Neil Zank, Patrick Durkin, Richard Eddie, Hank Holbrook, Bob Hempel, Bruce Elving, Ernest Cooper, Robert Ross, Albert Ellis. This month is a 2 pager because there was no column last month, and that the FM QSL's are piling up. I had a good time in Oklahoma City for the convention that John Zondlo did a job in getting together. Don Blevins & I drove out to OKC & back camping style & had a fine time. 73's untill next month.

Sm

WORLDWIDE TV-FM

DX ASSOCIATION

1981 CONVENTION

REPORT

by JOHN ZONDLO, with photos by DON ERICKSON

The 1981 WTFDA convention in Oklahoma City July 31, August 1 and 2 proved to be a rousing success. 30 club members ventured to the Oklahoma capital (total attendance 31) for the annual affair. Here's a recap of the activities:

PRE-CONVENTION

As usual, California's Don Erickson was the first arrival, and brought the rain that has become traditional at WTFDA conventions. We hadn't had any appreciable rain in two months, yet when DEE arrived, it was in the midst of a 5" downpour. Don's help in getting things ready for the convention was truly invaluable to the host.

Thursday saw many conventioneers arriving or already here, including Bill Thompson, Bob Seybold, Joe Gragg, Mike and Margie Hogan, Ralph Strobel, Mark Wilson, Glenn Jacobs, Harry Hayes, Ernie Wesolowski and Frank Merrill. Contrary to rumor, our meeting room was not the lobby of the motel, tho that is where many of the earlybirds hung out.

FRIDAY

The meeting room officially opened for business on Friday, and many of those attending were in town by this day. Activities began with tours of KEBC and KATT AM-FM. After those tours, we ventured down to beautiful Moore OK because Joe Gragg wanted to take a look at KOMA 1520. Joe wound up getting us an impromptu tour of the facilities. It was the first time many members had ever visited a 50 kw AM station.

After the official convention opening at 8PM (an hour late), we watched videocassette presentations far into the night. Featured were a TV Ontario Fast Forward program on TV standards around the world; a British IBA program along the same lines, tho more technical; a video tour of Jerry Pulice's DX shack in New York; a locally produced comedy show that Jerry taped from one of his locals; and finally, a videotape of Bethany Nazarene College's win over Alabama-Huntsville last March for the NAIA basketball championship (figured while I had the VCR rented I might as well show it, hi).

Alliance, McIntosh and Finco provided factsheets on their gear for conventioneers to pick up. Bruce Elving had his FM Atlas available, plus other goodies from his company. And two tuners, the Akai AT-VO4 and the Technics 9030, were available for members to experiment with in the meeting room.

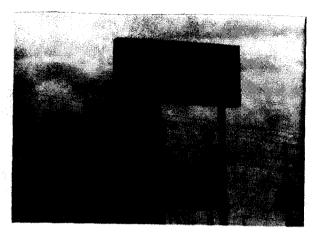
SATURDAY

Station tours began bright and early. We visited KJIL, KTOK/KJYO and KTBO 14. The 14 tour was truly miraculous, as I failed to make contact with any of the necessary station personnel before the tour. I knocked on the back door, and the only guy in the building (the switcher) let us in. Since he was busy, I gave the tour, since I was familiar with the place.

The afternoon was loaded with seminars. Bruce Elving led things off with a discussion of SCA and FM translators. Don Blevins then explained the workings of PSB DX, and gave valuable tips to those unfamiliar with that aspect of the hobby. Paul Mitschler explained the uses of a computer in TV DXing, and gave members a printout of TV stations within a 500 mile radius of their home. Dr. Richard Wood wrapped things up with a discourse on the DX he's experienced from various locations around the country (Baton Rouge, New York, Cape Girardeau, etc.).

Saturday evening saw conventioneers attending the annual banquet, which featured Swiss steak. Reactions to the banquet fare were very favorable, including a rating of 7 from Frank Merrill (that's right, even Frank attended the banquet). After the banquet, Joe Gragg spent two hours answering various and sundry questions about DXing, dealing primarily with propagation. Many former and present BCB DXers found his comments on Antique Modulation quite amusing. Joe was seen still answering questions two hours after the session ended. These annual Q&A sessions alone make the convention worth attending.

WTFDA 1981 CONVENTION REPORT

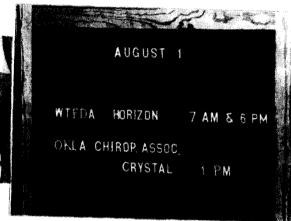


Oklahoma City's Ramada Inn West welcomed the WTFDAers.

Things started early on Saturday. (below)



Texas DXer Joe Gragg.





FCC FM and FM Atlas editor, Dr. Bruce Elving, snowed DXers FM SCA gear.



SOUTHERN FM DX's Damy Buntin (left) and club Distribution chief Mike Hogan.

RIGHT: PSB DX editor Don Blevins, a co-host of WTFDA's 1979 Baltimore convention.





NY DXer Jerry Pulice couldn't attend this year's convention, but he did make an appearance via videotape—that's Jerry on the screen, with a tour of his DX shack. His QTH, Staten Island, is bidding for next year's convention. Paul Mitschler's computer print-out of TV station data is above the TV.



Pioneer TV DXer Bob Seybold, host of several past conventions, including last year's.

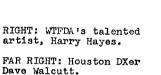


Louisiana DXer Mark Wilson (left) looks at some of DXer Marv Shults' (right) photos



FAR LEFT: 1981 convention host, and editor of WTFDA MAILBOX, John Zondlo.

LEFT: Standing next to John is NORTHERN FM DX editor Ralph Strobel. That's part of a Channel Master Stereo Probe 9 FM yagi behind Ralph.







Pennsylvania's Glenn Jacobs, one of a small group of successful trans-Atlantic TV DXers. A remarkably large turnout appeared for the club business meeting Sunday morning. Of course, we're not quite sure if it was because of the meeting or because breakfast was served (albeit 40 minutes late).

The business meeting featured the announcement of a dues increase to \$15 per year effective October 1st. The reasons for delays in VUD mailings were explained, and Mike Hogan explained how club mail is routed (hopefully future delays of the VUD were nipped in the bud by a mini-board meeting the following Mursday in Whiting IN, where the problem was discussed). Suggestions were made for improvements in the next edition of the TV Station Guide. Bruce Elving, the only WTFDAer to attend the ANARC convention in Thunder Bay, gave us a report on that convention. And a proposal to allow call letter changes to count as new loggings was discussed. The proposal, by Mike Dalton, was met by much opposition, as members said they preferred to consider a call change a change in image only, and not as a real technical change. Following the business meeting, the convention was officially closed, tho many hung around the meeting room for several hours afterward.

SUMMARY

Many thanks to all of those who made this convention a success. The nice comments I received during and after the convention made it well worth the effort. I was disappointed by the lack of media attention to the convention, tho we did get a pre-convention write-up in the OKC Daily Oklahoman.

If you'd like a copy of the convention guide, please send me a SASE with 35c postage.

I hope those who attended had a great time. See you in Staten Island next year?

isiand next yea The attendees:

The attendees:		
Richard Allen	Harry Hayes	Gary Siegel
Don Blevins	Margie Hogan	Ralph Strobel
Danny Buntin	Mike Hogan	Bill Thompson
John Clemmer	Glenn Jacobs	Dave Walcutt
Vernon Eaton	Jim Korn	Ernie Wesolowski
Richard Eddie	Frank Merrill	Ron Wing
Bruce Elving	Paul Mitschler	Mark Wilson
Don Erickson	Dave Pomeroy	Richard Wood
Ron Ginardi	Bob Seybold	Tom Yingling
Joe Gragg	Marv Shults	John Zondlo
Ronald Green		

DOLLARS AND CENTS

Income Registration fees	(\$9 for	banquet,	\$3 per	day	attended	\$525.00
	per pe	rson)				

Expenses	
Banquet	S269.54
Meeting room rental (room free banquet day)	93.60
Refreshments (soft drinks, chips, Sunday danish)	66.27
Stamps for mailing to area states members (50 35¢)	17.50
Paper for convention guide (part of one ream used for guide,	
one ream given to KJIL for use of photocopy machine)	11.54
Stamps for publicity mailings (60 18¢)	10.80
Rental of videocassette player	10.40
Name badges	2.80
One receipt pad, 2 ledger pads	1.23
Money orders for motel fees, payment to club	70
	\$484.38
Profit to club treasury	\$ 40.62

(Note: Money was saved by buying most soft drinks and chips from store, rather than motel. We were billed for only the 15 danish ordered, rather than the 20 served. Remainder of ream of paper used for guide being used for club purposes, such as financial data photocopying, etc.)

John Zondlo
OKC Convention Host



Fred Nordquist 7945 Boxford Road Clay, NY 13041 Deadline: the 5th

October 1981

		FM SCC		RD									
Dier, Location	Rank	Total		Es	MS		USA				TPU		As of
Andy Bolin, Charleston IL	1	2059	331	799		286		7	5	3	61		9/4/81
Pat Dyer, San Antonio TX	2	1421	181	1156	23		41+	3	6	3			11/15/80
John Ebeling, Eleomington MN	3	1338	194	751	28		47+	4	5	0		52	7/21/81
Danny Buntin, Stillwater OK	4	1292	169	747	1		47+	5	9	0	62		8/3/81
Mike Dalton, Clearwater ML	5	1188	248	68 9	. 7		41+		12		68		10/1/80
Fred Nordquist, Clay NY	6	1154	171	5/42	27		39+	5	0	2	47		9/5/81
Peter Sawatzky, Guelph ON	7	1065	164	498	112	5		?	0	1	47		8/22/81
Fred McCormack, Des Lacs ND	8	1039	133	784	25	77		6	4	0		65	8/30/81
Mike Bugaj, Enfield CT	9	1031	125	520	7			3	0	1		74	8/14/80
Relph Strobel, Muncie IN	10	1006	255	113	20	0		3	0	0	37	72	9/1/81
Joseph Fela, So. Plainfield NJ	11	917	178	431	2	9	37+	5	0	3		68	
Roger Winsor, Hobart IN	12	807	160	211	0	0		1	0	3		60	
Hank Holbrook, Chevy Chase MD	13	750*	174	202		Ō		5	Ö	- 3	44	59	
Vernon Eaton, Benton AR	14	724	143	173	1	3	42	5	8	0	55	77	
Tim McVey, Bolivar TN	15	705	89	155	2	0		4	2	0	46	77	8/1/80
Dave Brumfield, Muncie IN	16	639	136	33	1	0	28	1	0	0	29	78	
Fred McCormack, Fargo ND	17	576	65	360	2		42+	3	0	0	46	74	
John Jefferson, Pleasanton CA	18	573	113	300	79		21	4	2	0	27	57	8/28/81
Richard Steinberger, Hudson MA	19	546	108	234	10		33+	2	0		36	58	11/15/80
Joseph Smith, Johnson City NY	20	524	69	98	0	0		2	0	1	34	71	
Richard Wood, Cape Girardeau MO	21	491	84	160	1	-	41	4	4	0	49		
Pat Durkin, West Allis WI	22	418	86	70	0	0		3	0	0	35	78	
John Ebeling, Prosit MN	23	417	61	170	3	0	,	5	0	0	44	, ,	
Ken Simon, Lake Worth M.	24	380	119	301	0	0		2	1	4	39	66	.9/1/81
Deniel Oetting, Broomall PA	25	358	77	104	0	0		1	0	0	28		
Alan Michalek, Springfield MA	26	306	31	138	0	0	30	4	0		34	52	
Paul Traska, Buffalo NY	27	293	113	86	2	0			0		36		10/29/80
Dave Hascall, Fortville IN	28	243	42	44	1	0		3	0				
John Bolduc, Nashua NH	29	185	42	16	0			0	0			74	
Bob Schweitster, E. Brunswick NJ	30	184	62	7				0					
Paul Mount, Teansek NJ	31	150	23	17				2	Ó			??	
Frank Wheeler, Erie PA	32	144	16	3	0	0		1	0		-		
Paul Mount, Nelsonville OH	33	129	7	3		0		1	0				
Wm Hepburn, Miagara Falls ON	34	126	45	33		0			0	_		79	
John Adler, Milbank SD	35	123	10	15		0		0	0	-		78	
Pat Durkin, W. St. Paul MN	<u> 36</u>	100	11_	0				0	_0			81	
*-Verified. If others are interest	sted	in hav	ing yo	Ur Ve	ries	sho	wn i	n ti	ne i	PM :	Scor	еро	ard, send

your latest count with your next updates to the FM Scoreboard.

Column Definitions for FM Secreboard: Total = total number of FM stations logged. (Freq. changes count as a new station, call letter changes DO NOT count.) 88-92 = all stations logged from 88.0 to 91.99 MHs. Es = total number of stations logged via E-skip. MS = total by meteor scatter. Au = total via Aurora. USA = total number of states and the = Washington DC. CN = number of Canadian provinces logged; MX = number of Mexican states logged; FO = number of foreign countries logged, but not Canada or Mexico. TPU or "total political units" = sum of USA CN MX & FO. IB = the year you began DXing. If you have submitted updates that have have errors due to misunderstanding of the meaning of the column definitions (e.g. MX = total stations logged in Mexico, in lieu of the correct entry of total number of Mexican states logged) feel free to send in corrections. We all want each of your statistics to be an accurate samessment of your FM DXing accomplishments. Those of you who have not sent in updates this year, please do so by the end of the year, as the 1980 data will be dropped from the FM Scoreboard in Jan 82. Thanks for all your inputs and suggestions/comments.

			NEW P	M DISTANCE RECORDS		-
Min.	Prop	CL Location	Miles	Dier, Location		Holder-Miles
88.5		KPLU WA Tacoma	1505	Danny Buntin, Stillwater OK	McAuliffe	1460
91.1	Re	IETRA BCN Tijuana		Fred McCormack, Des Lacs ND	Hauser	1350
	Re	WDMG GA Douglas	2250	John Jefferson, Pleasanton CA	Simon	1450
		KTOM NM Clovis	1065	John Jefferson, Pleasanton CA	Hauser	895
		WVHR VA Hampton	1495	Fred McCormack, Des Lacs ND	McCormack	1480
103.1		KJAM SD Madison	1335	John Jefferson, Pleasanton CA	McCormack	1320
• • •		ECTO LA Columbia	555	Andy Bolin. Charleston IL	LeHlanc	540
103.9		WEBY OH Westerville	815	Denny Buntin, Stillwater OK	Dal ton	620
		WOMC MI Detroit	985	Fred McCormack, Des Lacs ND	Hauser	885
		WRVR NY NYC		Fred McCormack, Des Lacs ND	Dyer	1380
		WLCF MC Southport		Fred McCormack, Fargo ND	Hauser	1320
		WOWN ML Pensacola		Fred McCormack, Des Lacs ND	Pissi	1440

October 1981 New

New Mode

Tentative - t

Fred McCormack
Box 5221
State University Sta.
Fargo, ND 58105
Deadline: 5th

CST

Unidentified - unid

Jim	Pizzi,	P.O.	Bo:	x 1778,	Lovi	igto	on, N	M 8820	60								MDT
	1981 Es	KNXT KNBC KTLA	4	CA CA CA			0811 0812 0900	KTVQ KXGN KRTV KAID	5 3 4	MT MT MT		12	Es		CKCK KCRA KRON	3	SA CA CA
8	tr 0730	KEYT	3 4 3	CA TX TX TX	<u>Au</u>	ţus:	1 <u>98</u> 0 61 5	KAUZ	6	ТX	4 ОН		Es Es	0827 2000 0003	CF CN KTVQ	5 4 2	CA NM AB MT
	0800	KWET KVIJ KCBD	12 8 11	OK OK TX			0800	WLWT WCML	2	XT IM OH IM		19	tr	0930	KTVQ KGGM KTVU	2 13	MT ND NM CA
	0830 0832	KLBK KAMC KRBC KACB	28 9	TX	9	tr	0017	KXJB KVIA KTSM	7	ND TX TX		24	tr		KTXS KTAB		TX TX

Pardon my long absence from reporting. In May of 1980, I dismantled my equipment and moved to north of Lovington, NM (7 miles north). I stood in Santa Maria while waiting for a transfer on my job with the phone company. The transfer never came through, so I'm now managing Satellite Television Co. here in Lovington. The main company is in Santa Maria, Ca. We wholesale to dealers earth stations. We are distributors of National Microtech equipment. I'm in the process of setting up dealerships in New Mexico and west Texas. If anyone is interested in complete satellite systems or component equipment, let me know - I cam give good pricing. Business phone is 505-396-7361 or home, 505-396-3432, collect. or drop me a line.

I bought a four bedroom house on 20 acres of land - plenty of room for an antenna farm - but still don't have anything up but antenna for family TV - (CM-1110 and small UMF log with Winegard pre-amp). TV totals up to 41 - FM equipment not yet connected. I have to get used to tropo again- didn't see much in California.

I hope to be reporting on a regular basis and will eventually get my equipment set up. This seems like a good location. Locals on 3-6-8-10, can null 3 and 6 in most directions. Semi-locals on 2,5,7,9,11, 13, and 28 (Midland and Lubbock) no problem when conditions are up. Best of DX to everyone. 73, Jim (Good luck in your new location, fm)

Pat Dyer, 5315 Silvertip Drive, San Antonio, TX 78228

(Pat sent a note saying that he is still DX'ing TV, but hasn't been able to find time to go through his notes and write them up.) (Whenever you can get around to it, I am sure we would all enjoy reading of your DX again. Maybe, you could submit some of the highlights. fm)

Richard Noel Allen. Route One, Billings, OK 74630

Receivers: Sony KV-1212 12" color, Panasonic TR-3000P b&w, and JVC HR-3300U

Aerials: Winegard 11 element WHF log and Archer 44 element UHF log above 25 feet on rotator with pre-amps

August 1981	8 tr 0625 KXNE 19 NE	(apx 60 sec burst)
4 tr 0550 K33AC 33 NE	Es 1915 CKGN 2 ON 2000 WJBK 2 MI	12 ms 0316 KDKA 2 PA 0318 WFMY 2 NC
7 Es 1715 CKTV 2 SA 1758 CFRN 3 AB	CCI: WGR, CKGW & unid PBS	0348 WSB 2 GA All seen more than
1829 CFAC 2 AB 1859 <u>CFSS</u> 3 SA	2057 CKCO 2 ON 2058 CKSO 3 ON	once on this date.
CCI: CBWFT 1859 <u>KBME</u> 3 ND	2145 CKCY 2 OW CCI: unid Can	0323 WFMY 2 NC 0344 WSB 2 GA
8 tr 0623 KHNE 29 ME 0625 K33AC 33 ME	2150 WBAY 2 WI 12 mg 0311 WWGE 2 TW	Ea 1757 WUND 2 NC

Richard Noel Allen (continued)

Above is my first active TV DX in many months. I was very surprised to catch three new stations, bringing my total to 345 stations seen in eight years of DX-ing. Most of my loggings occurred in the first four years (1973-77) when I was very active and my equipment was newer. I did manage to get decent photographs of WNGE and WSB during the Perseids (St. Lawrence's Tears) shower.

KAUT-45 ceased "Newswatch 43", their noon to 7 p.m. (Monday-Friday) newscast, on 3-28-81, after ten months. KLTE (FM), in a commentary, blasted Golden West Broadcasting, KAUT's owner, for not taking advantage of their unique news format and providing Oklahoma City with an alternative news source. Unfortunately, KAUT did nothing but present an ordinary one hour newscast repeated seven times in a row. KTVY-4, KOCO-5, and KETO-14 are on all-night schedules several days per week at the present. KTVY has a one-hour newscast at 6-7 a.m., and KOCO will begin a one-hour newscast on 9-14-81, according to a recent story in the local newspaper. 30 (Good to have you back. fm)

Fred McCormack, 135 Prairiewood Drive, Fargo, ND 58103

CDT

Equipment: 9" Broadmoor b&w television, 19" Magnavox digital color (for UHF), Winegard CH-7078 V/U, CH-9095 UHF, B-T CMA-U preamp

August 1981	21 tr 0740 WHLA 31 WI 340 5 tr	0031 WLFI 18 IN 675
9 Es 2158 KBTX 3 TX 1120	0758 KOZK 21 MO 695	0109 WAND 17 IL 620
11 Es 2159 WSTM 3 NY 1045	2042 1122 40 44	0127 WICS 20 IL 610
	-0.4.	0144 WORF 39 IL 490
12 tr 0556 CKYB 4 MB 245	0828 WXOW 19(MW) 340	
Es 2015 unid 3 NBC	Fe 2010 17 17 17 17 17	
tr 2058 WLEF 36 WI 315	Es 2049 unid 2 NBC e	0223 WSAW 7 WI 365
Es 2300 unid 4 w	23 Es 1809 unid 3 NBC s	0259 WIHR 13 IN 715
(over local KXJB)	30 tr 2350 KCNA 8 NE 365	0351 WOAD 8 IL 500
14 tr 1110 KUSD 2 SD 265	September 1981	0450 WLUK 11 WI 455
1113 KTSD 10 SD 240	***************************************	0457 WLEX 18 KY 870
15 tr 1729 KHIN 36 IA 390	3 tr 2245 <u>WQOW</u> 18 WI 280	0502 WXIX 19 OH 815
1744 KCCI 8 IA 385		0514 K48 48 MN 145
2129 KXNE 19 NE 320	0755 KXNE 19 NE 320	(Willmar - with KMSP
16 tr 0139 KTIV 4 IA 300	1103 KMNE 7 NE 340	off - xltng WWTV-9!)
Es 1438 KMID 2 TX 1060	2219 <u>K50AG</u> 50 MN 145	0529 WBAY 2 WI 455
tr 2053 KRIN 32 IA 395	/ mt 7.3	0542 WLUC 6 WI 425
19 tr 0544 WHO 13 IA 385		0553 WGVC 35 MI 595
	(Willmar KMSP-9)	0610 KWWL 7 IA 395
		0611 WHO 13 IA 385
2215 KOTI 2 OR 1265	(Willmar WCCO-4)	
20 tr 2218 KIMT 3 IA 310		0612 WISN 12 WI 505
21 tr 0730 WEAU 13 WI 320	2258 <u>WOSU</u> 34 OH 835	0654 WHA 21 IL 445
9m-1-13- At - 1		0700 WAND 17 IL 620
	iod ever for my Fargo log book.	0759 WHRM 20 WI 365

Certainly the best DX I have seen here. Really enjoyed the all-night tropo on 9-4/5. Maturally, many stations were seen which remain unidentified, although I usually have a pretty good idea who they were. Was surprised to see WWTV-9's signal being translated by nearby translator. Unfortunately, I couldn't find the real station. WTHR is the most distant VHF tropo seen from either of my DX locations.

I have removed previously reported K60AO, Redwood Falls, from my log book. Recent translator info received from Bill Fahber indicates it was more likely a new translator at Appleton, MW. I will be watching for it again. 73







HOUSTON





EASTERN TV.DX

William J. Draeb Ellis St. R.R.#2 Kewaunce, WI 54216

Eastern TV-DX

Deadline: 5th

E-Skip continued to be active here during the first week and a half of august but came to an abrupt ending on the 11th. A few good tropo openings here on August 17 and 18 and another on the 25 and 26 brought in stations from Oklahoma, etc. (the first opening) and to Eastern PA. and N.Y during the secand opening.

Saul Chernos: 79 Ridge Dr	rive, Toronto, ON M4T 136	EDT
June 1981	June 1981	July 1981
31. 53	OF D. 1000 PORT O 100	13 Es 2126 KTVY-4 OK
17 Tr 2219 CBLFT-1-7 ON	1829 KTVY-4 OK	2130 KOCO-5 OK
18 Es 1720 WPBT-2 FL	1912 WSM-4 TN	KOTV-6 OK
1730 WTVJ-4 FL	Nashville	Tulsa
14 Tr 1330 WCML-6 M1 17 Tr 2219 CBLFT-1-7 ON 18 Es 1720 WP BT-2 FL 1730 WTVJ-4 FL WCIX-6 FL Miami WP TV-5 FL 1735 WESE-2 FL 1740 WEDU-3 FL 0 Orlando	1918 KDFW-4 TX	14 Es 1930 KXGN-5 MT t
Miami	1930 <u>WADG-6 MS</u>	22 Es 1700 <u>WTHS-2 FL</u>
WPTV-5 FL	Greenwood	Miami
1735 WESH-2 FL	1957 KSNB-4 NE	WPBT-2 FL
1740 WEDU-3 FL	"MTV 1.D."	1730 WDIC-2 AL 23 Es 2145 KWGN-2 CO
1830 <u>WDBO-6 EF</u>	2000 <u>CBKMT-4 S</u> K	23 ES 2145 KWGN-2 CO
Orlando	Moose Jaw 2030 KTTS-2 AR 2058 KOA-4 CO 2100 KOAA-5 CO Pueblo	2159 WCCO-4 MN
2100 <u>KARK-4 AR</u>	2030 KETS-2 AR	2205 KTCA-2 MN 22 2 8 KNOP-2 NE
Little Rock	2000 NOM-4 CO	22 2 8 <u>KNOP-2 NE</u> North Platte
2115 WREG-3 TV	Pueble	2250 <u>KMTV-3 NE</u>
Memphis 19 Es 1730 <u>WDIG-2 AL</u> Dozier 1755 WESH-2 FL	2200 KIBH-3 OK	Omaha
Togier	2316 KVTV_3 MO	2255 KWN B-6 NR
1755 WESH-2 FL	Springfield	Hays Center
1755 WESH-2 FL 1900 WPBT-2 FL	2318 KARK-4 AR	2300 KPIO-6 SD
20 Es 1600 WDIQ-2 AL	2333 KOCO-5 OK	Reliance
WTVY-4 AL	Enid	KPRY-1+ SD
Do than	26 Es 0002 WDIQ-2 AL	Pierre
21 Es 1430 KPRC-2 TX	0015 WMAB-2 MS	KIVV-5 SD
Houston	27 Es 1500 KUSD-2 SD	Lead-Deadwood
WWI-+ Lin	Vermillion	2305 <u>KXON-5 SD</u>
New Orleans	28 Tr 1758 WTOM-4 MI	Reliance KPRY-4 SD Pierre KIVV-5 SD Lead-Deadwood 2305 KXON-5 SD Mitchell 2315 KDUH-4 NR
<u> 104-4 CO</u>	Cheboygan	2315 KDUH-4 NE
Denver	28 Tr 1758 WTOM-4 MI Cheboygan 2100 KDKA-2 PA Pittsburgh 30 Tr 1900 WDIV-4 MI	2359 <u>KTWO-2 WY</u>
1456 <u>WBRZ-2 LA</u>	30 Tr 1900 WDIV-4 MI	Casper ("K2" I.D.)
Baton Rouge 1500 <u>KDFW-4 TX</u>	30 11 1900 WXYZ-7 MI	26 Es 1508 Cuba-2 tent.
Dallas	WJKW-8 OH	Cuba-1+
1800 KJRH-2 OK		Camaguey
1800 KJRH-2 OK Tulsa 1830 KTVY-4 OK Oklahoma City 1900 KCKT-2 KS Great Band 23 Es 1720 WSB-2 GA Atlanta 1730 KTCA-2 MM Minneapolis 1805 WCCO-4 MM Minneapolis	July 1981	1730 WCTV-6 GA
1830 KTVY-4 OK	4 Es 1257 WJXT-4 FL	Thomasville
Oklahoma City	1258 WESH-2 FL	WRBL-3 GA
1900 <u>KCKT-2 KS</u>	1259 <u>Cuba-2</u>	Columbus
Great Bead	1300 WEDU-3 FL	1748 WESH-2 FL
23 Es 1720 WSB-2 GA	1900 WDIQ-2 AL	1800 WEDU-3 FL
Atlanta	1930 WHRZ-2 LA	WJXT-4 FL August 1981
1730 <u>KTCA-2 MV</u>	WNAB-2 MS	2 Fo 1000 WESH 2 FT
Minneapolis	2250 KDUR→4 NB 2 To 1750 MTVT L RT.	3 Es 1900 WESH-2 FL 8 Es 1308 " "
1005 WCCO-4 MW	1800 MDRT-2 RT.	1309 WPBT-2 FL
1830 KQTV-2 MO	WESH-2 FL	1330 WSB-2 GA
24 Es 2030 WMAB-2 MS	1819 WJXT-4 FL	1420 WDIQ-2 AL
Ackarman	1830 WTVY-4 AL	1900 KMID-2 TX
2204 WBRZ-2 LA	11 Es 1255 WMAB-2 MS	Midland
2235 WESH-2 FL	1300 WBRZ-2 LA	10 Es 2330 CKCK-2 SK
25 Es 1600 KWGN-2 CO	KPRC-2 TX	(now CKTV-wd)
Denver	WHBF-4 IL	Unided-1+;
1700 KOA-4 CO	Rock Island	probably Alta.
1720 WSB-2 GA	11 Es 1255 WMAB-2 MS 1300 WERZ-2 LA KPRC-2 TX WHEF-4 IL Rock Island 1330 KETS-2 AR KARK-4 AR	11 Es 1800 WESH-2 FL
1735 WIVJ-4 FL	KARK-4 AR	2317 <u>KULA-2 NU</u>
I/T/ ADOM-T NE	TIOU ILDI II— I III	Dickinson 12 Es 2230 KTWO-2 WY
	13 Es 1937 WWI	TE TO SENO WING-S MI
24 1800 KINE-3 NE	2030 MD02-2 DK	

2100 KJRH-2 OK

Lexington

Eastern TV-DX Saul Chernos; continued---"Lots of TV Es this summer. If I see WESH or WDIQ one more time (or WPBT), I may just give up DX and spend the rest of my days in a white padded cell. How could freud have missed the DX-Syndrome, hi! (He could have invented the "Freudian Skip"). Oooh! That's bad! Very! (You said it, I didn't--va.) Also, I have an immense list of unideds. I will not list here, but send to CCI.

Greg Kelley: 211 St. Clair ave. S.W., New Philadelphia, OH 44663 EDT

August 1981		August 1981	August 1981
23 Tr 0800 CBET-9 ON	180	23 Tr 0900 WUTV-29 NY 200	23 Tr 1000 CICA-19 ON
CKUK-8 ON		Buffalo	Toronto 250
Wingham		1000 CFTO-9 ON 250	CBLFT-25 ON "
war-2 ny	200	Toronto	Toronto
Buffalo			<u> CITY-79 ON</u> "
0900 CHCH-11 0	N 190		Toronto
Tend11:00	-		

"Really a great morning for UHF, was trying to "knock-off" Toronto for a long time. Well... I am no longer with Radio Shack... found a much better position with a lot more\$355\$! To celebrate, we are putting up a 40' tower using my Finco 5' dish, along with the 7 db gain from the Delhi Co., in Ontario. Plus add a B-T preamp with 38 db gain. This ought to really increase my UHF range. Hope to have all of this done for reporting next month."

Robert Grant: 5775 Bishop, Detroit, MI 48224 (313)-884-3025 EDT

June 1981	August 1981	August 1981 13 Tr 0512 WKRC-12 0H
25 Es 0500 CJCN-4 NF Grand Falls	8 Es 2300 KOTA-3 SD KTVS-3 CO	Cincinnati
(GSL of CTV news)	KYCU-5 WY	15 Tr 0300 WAVE-3 KY (IN) 18 Tr 0230 CKCO4-11 ON
August 1981 3 Att 0240 hash ch.2-9.	9 Es 0000 KOAA-5 CO Tr 0412 CKC04-11 ON	0550 WHEC-10 NY
Tr 0400 CBUT15-5 BC	Es 2100 KTVS-3 CO	WTAJ-10 PA t
Nimpkish (seen via CBLT)	10 Ms 0527 KDFW-4 TX Tr 0546 WHEC-10 NY	20 Tr 2300 W47AB-47 OH 21 Tr 2240 WEAO-49 OH
5 Ms 0252 WCBD-2 SC	11 Ms 0305 KDUH_4 NE	Akron
0309 WESH-2 FL 6 Es 1922 WTVJ-4 FL	(previously by Es) 0328 WCCO-4 MN	22 Tr 0350 WAVE-3 KY(IN)
2230 CBHT-3 NS	12 Ms 0354 WAVE-3 KY(IN)	0500 WLUK-11 WI t
2316 WRBL-3 GA 7 Es 2200 KYCU-5 WY	Louisville 0355 WISC-3 WI	23 Au 0405 hash on chs 2-5 24 Tr 0555 WHAS-11 KY
8 Tr 0300 WWUP-10 MI	(previously by Tr)	Louisville
0348 <u>CKC04-11 ON</u>	12 Ms 0429 KDFW-4 TX	26 Tr 0311 CKNC-9 ON t CKC04-11 ON
Huntsville	0445 <u>CBLT-5 ON</u> (simultaneous // Tr)	CACO4-11 0N

"With the loggings of WKRC-12 and WEMO-19 I have only 2 stations on my "hit list" of nearby (by DXers standards) stations I should have had but have never seen. They are: WRTV-6 and WGED-13.

Got a nice letter from the Newfoundland Broadcasting Co. with "NTV" symbol: NTV in a triangle, in a circle, in a square. I seem to remember a DXer in the U.K. hearing NTV and not knowing what it was (probably CJAP Argentia, 14 kw LRP--558 MAT.) NTV's address is: P.O. box 2020, St. John's, NF Alc 582.

If anyone else has an unided logging they think might be I.D.able, feel free to write me."

Gerald H. Barkow: 29 Sedgefield Drive, Morris Plains, NJ 07950 EDT

May 1981 22 Es 1922 WinaR-3 FL	3 Es 2000 Unided-2 6 Es 1630 WBRZ-2 LA	28 Es 2030 WPBT-2 FL
2030 WPBT-2 FL	1900 WPBT-2 FL	July 1981
26 Es 1830 Cuba-3	8 Es 2000 CJON-6 NF	4 Es 1130 WEDU-3 FL
1900 WCIX-6 FL	2030 CJAP-3 NF	5 Es 1657 Cuba-6
2000 WPBT-2 FL	14 Es 1000 WPBT-2 FL	1700 WPBT-2 FL
28 Es 1600 WPBT-2 FL	17 Es 2000 WPBT-2 FL	22 Es 1700 WEDU-3 FL
1915 WLBT-3 MS	18 Es 2130 WEDU-3 FL Aug.	6 %s 1730 WPBT-2 FL
2000 WCIX-6 FL	22 Es 1700 WPBT-2 FL	1820 WRDL-3 GA
2030 Cuba-3	23 %s 0830 WEDU-3 FL	2300 WOWI-6 NE
2100 WEDU-3 FL	800 KIMT-3 IA	2330 WMT-2 IA
June 1981	29 Es 2000 Cuba-3	1700 wedu-3 fl

<u>Restern TV-DX</u> <u>Gerald Barkow</u>; continued August 1981 3.Es 2130 KIMT-3 IA

8 Es 0930 WPBT-2 FL

8 Es 1000 WEDU-3 FL

"This TV DX season was another flop, continuing a trend of the last 5 years of poor Es openings. There were more openings this year compared to last but most activity was of low intensity, short duration and confined to channels 2 & 3 with only a few openings making it all the way to 6. Almost all the Es activity was from the deep South, especially the Florida area, with only a few openings to the Midwest. The 5-26 opening was a good one to the Florida & Cuba area with an exceptionally strong visual signal from Cuba-3 from 1630-1700 programming cartoons with Russian sub-titles. 7-5 produced the most intense Es opening of the season with activity at times so active that there were several stations being received on the same channel simultaneously, making I.D.ing difficult. An unided PBS station on 6 at 1745 had "visual problems" across the bottom of the screen, so possibly they were being clobbered by CCI. WPBT-2 was completely overriding local WCBS-2. I called WPHT and they were aware that they were causing severe CCI to WCBS's signal in the New York City area. They told me that WCBS's eng. dept. had called them indicating receiving reports from viewers in the New York City area of reception of W-BT. 8-6 produced 2 seperate openings from two different geographical areas. A strong opening from Florida was evident from 1700-1900 with no signs of Es at 1930. But then a nice Midwest opening developed reaching all the way to channel 6. At 2200 I added a new catch to my log when a clear I.D. slide was seen for WOWT-6. This brings my totals on channels 2 thru 6 to 53. After 20 years of TV DXing I still need Texas & Thunder Bay. Lets hope mext year starts a trend of great Es openings."

Steve Sprachman: 3939 Eve Drive, Seaford, NY 11783 EDT

"Another month has come and gone and the DX season is coming to an end. This month was much slower than the last two. Earlier this month Southern New Jersey provided some excitement. WRBV-65 Vineland went on in the middle of July. WWAC-53 Atlantic City went on at the end of July (July 29th to be exact). WRBV-65 puts in the better signal. They have syndicated programs during the day and STV starting at 8 p.m. Wometco Home Theatre with the barker at times. WWAC-53, from what I've seen has news at 6 p.m., a local news magazine at 6:30 and movies after that. Every time I get them, they have movies.

The DX here was good at the beginning of August and is now very quiet.

Days with Tropo: July 25,28,30,31, August 1,2,5,7,8,9,10,11,12,13,15,20,22,23. Days with Es: August 3,8.

Highlights: July 30 Tr 2000 WWAC-53 Atlantic City.

31 Tr UHF from CN to Philadelphia. Unided-64 under WNEW's W64AA. Is WSTG-64 Providence, RI on or testing?? (don't know-wd)

August 1 Tr 0800 UHF -- Washington. DC, Harrisburg, FA, WWSG-57 Philadelphia-finally a picture-preview of movies on "SelecTV". Tr 1800-2300--UHF Boston to Washington DC; all CN, and NJ stations. Also, the mysterious ch. 64.

August 13 Tr 0645 UHF Salisbury, MD and Harrisburg, PA. Unided-60; W6ØAM Reading, PA, tent. 15 Tr 0730-0900 UHF-20,26 DC.

16,28 Salisbury, MD; 2733 Norfolk, VA; 22,44 Scranton. 20 Tr 0645 UHF Boston 25;

Springfield, MA to Philadelphia. 22 Tr 1900 Scranton 16,22,28,44 they have not been seen too often this year.

"Sorry for the sloppy report. I'm using a state of NY issued pen, and they leak! I'm trying to condense my re-

port. I don't know which is better, list every thing (most of which are relogs) or to condense it and just write out the nighlights. The condensed version is easier on the hand. (This way is 0.K. with me. -- wd)

I'm starting my plans for next May's vacation. My destination will be New Mexico, Arizona, Southern Utah and Las Vegas. I'm driving, so I'll be able to pick up all the TV Guides. Any one want to tell me how the weather is there in early May?? That's it for now."

Eastern TV-DX

William R. Hepburn; 5659 Highland Ave., Niagara Falls, ON L2G 4X2 EDT There's a long overdue report covering June 1 - August 10. (The postal strike has been a pain).

Although the Es season was rather short, Tr was not too bad. Highlight of the summer was as reception of CBWFT7-2 Kenora, ON -- as from my home province! Is this a first - reception from ones' own state or provil (quebec, Texas, Calif. other possibilities???). (I can't think of any others-wd).

Recently noticed local CBLT-5 broadcasting CBUT-2 & WCBS-2 programs & T.P.'s after sign off - some body goofed (the CEC technicians strike was probably the cause). Also noticed NEC-TV audio on CALFT in July.

Finally caught Calft ch.34 and ch.55--must be very low power! Now to DX:"

	F J	lid.	гту	Ca	MUF-3; aga KLNE-3 NL MUF-5 MUF-4 Detroit V' CHET-9 ON Detroit 20 60 210 WKAR-23 MI Unided-60 WEGU-57 OH WIHT-31 MI Ann Arbor WTVG-13 OH MUF-13 IA Mason City WMT-2 IA Mason City WMT-2 IA KKIMT-3 IA KKIMT-3 IA KKIMT-3 IA Mason City WMT-2 IA CKCK-2 SK (NOW CKTV- CBWFT7-2 OK KRINE-3 IA CBWFT-3 ME KUSD-2 SD KKINE-3 IA KUSD-2 SD KKINE-3 IA KUSD-2 SD KKINE-3 IA KUSD-2 SD KKINE-3 IA KWSD-2 SD KKINE-3 IA CEWFT-4 SB MOOSE JAW (must be a call; it they were -wd) CFSS-3 SK Estevan-We CKX-5 MB KDIO-3 SD CKYB-4 MB KPRY-4 SD + ccl burst MUF-4 WHT-31 M Detroit I WEYI-25 II WHF-4 MUF-4 MUF-4	CII. 3+	anı	I CI	1.77-	-muse o	s ve	31 y 10	a power			
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Lastern TV-DX

George Rogers; continued ---

0844 WKLE-46 KY

William Hepburn; continued---

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July 1981
23 Es 2206 KEME-3 ND 1085 1 Tr 0720 Detroit U's
                                                             August 1981
2 Tr 2334 WGPR-62 MI 210
                                                             3 Au 0022 cci 2,3,5&6
             Bismarck
                                    0723 WXYZ-7 MI 210
       2250 MUF-6
                                                               GW 0043 CHLT W/WCBS tp
                                    0724 WUHQ-41 MI t
       2254 KXJB-4 ND t
                                                                   0413 CBLT w/CBUT tp
                                    0732 WGVC-35 MI t
                                    0734 Unided-60; w. 0756 WKAH-23 MI 275
                                                            Es 2324 MUF-3
6 Tr 0939 CBLFT11-55 ON 93
25 Au 1019 cci chs.2-6
26 Es 1422 MUF 89.7
28 Ls 2345 MUF-3
                                                                         Barrie
                                    0757 WIHT-31 MI t
30 Ls 1726 MUF-2
                                                                   0942 Unided-48: N.
                                 Es 1619 MUF-2
                                                                   0944 W33AB-33 NY 190
   Tr 2047 W64AK-64 OH 1202 GW 0552 CHLT-5 W/WCHS-2
                                                                         Utica (WCNY)
       2123 W58AN-58 NY t
                                    tp until 0730.
                                                                         W62AN-62 NY 150
31 Tr 0710 W64AK-64 OH t
                                 Tr 0601 WDIV-4 MI 210
       0754 WNPI-18 NY 230
                                                                   0948 WPTT-22 PA 190
                                    2334 WKBD-50 MI "
                                                                         Pittsburgh
                                                                         WPCB-40 PA 190
August 1981
1 GW 0150-0240 CBLT-5 with
                                                                         Greensburg
      CBUT-2 bC program.
                                                               Es 2255 MUF-6
                                                                         KBTX-3 TX t
"Log totals now at 215. (150 WHF and 65 UHF). P.S.--
                                                                   2259 KOLT-3 OK t
                                                                   2310 KFDX-3 TX 1230
Have now received a channel 60 three times from the
                                                             7 Es 0924 MUF-2
West (May 30, June 6, Aug. 1). Any ideas???"
(I don't know of any stations (xltrs or otherwise) 8 as 1303 MUF-4
on ch.60 around this area which have recently come 10 Es 0035 WGPR-62 MI 210
on or have been on .-wd)

      George Rogers:
      320 Lafayette Rd., Chickamauga, GA 30707
      EDT

      July 1981
      August 1981
      August 1

      27 Ls 2040
      CFCL3-2
      0N 1348
      6 Es 1512
      WCBS-2 NY 750
      8 Es 142

                                                             8 Es 1420 CKGN1-2 ON 1152
                                      1538 KMID-2 TX 1123
                                                                   2015 KOAA-5 CO 1259
       2200 KCKT-2 KS 984
                                      1615 CJCH-5 NS 1617
                                                                    2030 KWGN-2 CO 1317
             KWGN-2 CO 1317
                                                                   2110 KOA-4 CO 1317
29 Tr 2320 KATV-7 AR 459
                                      1620 WGBH-2 MA 995
30 Tr 1150 KATV-7 AR "
                                      1635 CJCH1-6 NS 1750
                                                                   2130 CKPR-2 ON 1348
                                                                   2225 KDIX-2 ND 1570
2235 KTIV-4 IA 1095
       1202 KTVE-10 AR 508
                                            Inverness
                                      1755 WLBZ-2 ML 1188
1935 KGFE-2 ND 1359
             El Dorado
                                                                         KNOP-2 NE 1180
       1205 WMAO-23 MS 373
                                                                   2240 KHAS-5 NE 1145
2300 KPRY-4 SD 1303
                                      1955 KDIX-2 ND 1570
31 Es 1004 XHLPM-2 CHIS
                                      2005 KIWY-5 SD 1445
                                      2135 CBFT-2 Pt 1086
2145 CHAU-5 Pt 1450
                                                                   KUSD-2 SD 1120
2305 KXJB-4 ND 1340
       1130 KGBT-4 TX 1245
       1131 XHD-4 TAM 1350
                                      2205 CFCM-4 Pt 1246 9 Es 1955 CKPR-2 ON 1348
       1305 XEPN-2 TX COAH
                                      2225 WCVB-5 MA 995
                                                                   2105 KTCA-2 MN 1008
             Piedras Negras
                                                                   2130 KDIX-2 ND 1570
                                            CKCW-2 NB 1475
       1335 KMID-2 TX 112<u>3</u>
                                      2235 CBGAT6-6 PG 1200
                                                                         KNOP-2 NE 1180
             KOSA-7 TX 1143
                                                                    2140 KXJB-4 ND 1340
             Odessa
                                            St. Adelme
                                      2305 WBZ-4 MA 995
                                                                         KGFE-2 ND 1359
       1405 KMOL-4 TX 981
                                      2315 WABI-5 ME 1188 10 Es 2120 KTCA-2 MN 1008
             XEPM-2 CHI 1430
                                            WHGB-6 NY 906
       1415 KENS-5 TX 981
                                                                    2125 CKPH-2 ON 1348
                                      2320 CICI-5 ON 1375
                                                                     2215 KGFE-2 ND 1359
       1805 KPRC-2 TX 784
                                      (where's this one? wd) 11 Ms 1525 KAYS-7 KS 2335 CFCL2-2 ON 1325 Hays 1044
                                2335 CFCL2-2 ON 1325 Hays 1044
7 Es 0815 KPL0-6 SD 1325 Tr 1800 WTVK-26 TN 113
0820 KIVY-5 SD 1445 12 Es 1510 XHTV-4 DF 1830
August 1981
2 Es 0950 WGR-2 NY 794
      1240 KTV-2 MT 1770
                                      0826 KNOP-2 NE 1180 2310 KWGN-2 CO 1317 0830 KDUH-4 NE 1356 15 Tr 1040 WCBI-4 MS 265
                                      0826 KNOP-2 NE 1180
            KXLF-4 MT 1991
            Butte
                                            KPRY-4 SD 1303
                                                              Es 2200 KTWO-2 WY 1547
3 Ls 1520 XHRPM-2 CaIS
                                      0910 KTWO-2 WY 1547
                                                                          KDUH-4 NE 1356
                                      0950 KWGN-2 CO 1317 16 Es 1445 KWGN-2 CO 1317
1105 KCKT-2 KS 984 17 Ls 1355 KHGE-2 CAMP
      1620 XEW-2 DF 1850
      1830 WLBZ-2 ME 1188
                                            KOA-4 CO 1317
                                                                    1400 XHAO-4 CHIS
      1835 CKCW-2 JB 1473
                                      1155 KYCU-5 WY 1369
                                                                    1405 XHRPM-2 CHIS
      1910 WGBH-2 NA 995
                                      1640 KDIX-2 ND 1570 19 Ls 1830 XEPM-2 CH 1430
      2005 CBAFT1-5 NB 1351
                                      1645 KXJB-4 ND 1340 23 Es 1620 KMID-2 TX 1123
            frederickton-
                                            KGFE-2 ND 1359
                                                                    1735 XHRIO-2 TAM
            St. John
                                      1810 ICR-4 Cuba 875
                                                                    1925 WBRZ-2 LA 531
      2025 CSFT-2 P. 1086
                                      1815 ICR-5 Cuba 900
                                                                          KJAC-4 TX 710
            CFCM-4 P. 1246
                                      1950 ICH-2 Cuba 845
                                                                    1945 KPRC-2 TX 784
            Сымт-6 Р. 1086
                                      1955 WPBT-2 FL 776
                                                                     2015 KAMR-4 TX 1036
4 Tr 1510 WRBL-3 GA 224
                                8 Es 1300 WGBH-2 MA 995
                                                                    1950 TR-5 Cuba 945
      1526 WTVY-4 AL 317
                                      1335 CBFT-2 P4 1086
                                                                     2000 ICR-4 Cuba 900
  Es 1537 CKLT1-3 NB 1318
                                            KAMR-4 TX 1036
                                                                     2015 KTXT-5 TX 1116
            Florenceville-
                                                                     2045 XEPM-2 CH 1430
                                      1400 KNME-5 JM 1316
            Woodstock
                                            KOB-4 NM 1316
            (WACB off)
```

as a high band moteor scatter. Now I'm looking forward to the tropo season and I hope to get a 750 to 1000 mile tropo opening this September or October. I would like for reliow WIFDA members to send me their editions of TV Guide. I would be greatful to them if they do so." raul Gaines: 15920 Puritan St., Detroit, MI EST-EDT October 1980 2 Ms 0338 wCBS-2 NY 490 8 Tr kY, IN, OH, IL. 9 Tr 0005 WMBD-31 IL 345 February 1981 27 Tr 0845 WKON-52 KY 275 18 Tr 0217 KSD-5 MO 450 0858 WKGB-53 KY 410 0300 WIVF-5 IN 475 0903 WUSI-16 IL 355 WTTV-4 IN 255 0153 WICS-20 IL 375 0904 WICD-15 IL 305 0326 WIVW-7 IN 375 0849 WILL-12 IL 305 0912 WKPI-22 KY 345 0335 WIVA-9 MS 635 0856 WAND-17 IL 340 0913 WKZT-23 KY Tupelo 2152 WURF-39 IL 300 0916 WTIU-30 IN 280 0827 KFVS-12 MO 475 0927 WKMA-35 KY 410 0933 WKMJ-68 KY 310 2153 WTVO-17 IL Es 1225 WLBT-3 MS 790 2159 KHIN-36 IA 615 1256 KATC-3 LA 970 2043 WPTV-5 FL 1110 10 Tr IL, OH, WI, KY 0939 WKOH-31 KY 380 2045 WCIX-6 FL 1170 Owensboro November 1980 12 Tr IL, KY, IN 0815 WFIE-14 IN 375 2126 WEDU-3 FL 1000 2306 KXAS-5 TX 1025 0955 WILL-12 IL 305 0953 WFIE-14 IN 375 2306 KXAS-5 T 1001 WNUL-33 WV 280 19 Tr W39AA, W47AB 2131 W64AK-64 OH 125 0935 KDNL-30 NO 450 20 Es 1448 KXAS-5 TX 1025 13 Tr IL, KY 15 Tr 1213 WAND-17 IL 340 March 1981 1457 KOET-3 OK 820 16 Es 2212 KFDX-3 TX 1000 26 WNET-13 i.d. seen on 2254 KOET-3 OK 820 WDIV-4. 1559 KFDX-3 TX 1000 1603 <u>KFDM-6 TX 1040</u> 23 Tr 0108 CBLFT-44 ON 270 Beaumont 24 Tr 0746 WXXI-21 NY 280 0112 CHEX-12 ON " April 1981 19 Tr 0857 WOPC-38 PA 275 0121 WNPE-16 NY 375 Watertown 0316 CKCO t.p. on 21 Tr WTVQ-36, W64AK, W67ch.27. 0214 WNPI-18 NY 415 Es 1230 WEDU-3 FL 1000 AL, etc. Norwood 1300 WEAR-3 FL 870 1330 WKRG-5 AL 855 0311 CHOT-40 seen May 1981 via CBLFT-48. 6 Tr WICD-15, WAND-17, WI-25 Tr 0023 WTVQ-36 KY 305 LL-12, WTV4-36 December 1980 9 Tr W64AK, W67AL Es 1130 WLBT-3 MS 790 4 Tr 0244 WLKY-32 KY 310 20 Tr W17AA 1200 KFDX-3 TX 1000 8 Tr Rockford & Freeport. 26 Tr WICD-15, WAND-17 9 Tr Madison & Rockford. 27 Es 1104 KXAS-5 TX 1025 1205 KOET-3 OK 820 1306 KXAS-5 TX 1025 10 got a ch. 56 running on 28 Es 1100 WPTV-5 FL 1110 1307 KAUZ-6 TX 1000 ch.41 - newsletter -1322 KOCO-5 OK 995 1400 KENS-5 TX 1220 1122 WCIX-6 FL 1170 then Washington, DC. 30 now using Magnavox 13" 28 IL stations. color portable. 1410 KRMA-6 CO 1125 Tr 1809 Unideds. 1428 KYCU-5 WY 1090 1500 KOAA-5 CO 1145 Tr 2253 WFUM-28 running on TWO 18,19,32,59. <u>January 1981</u> 13 Tr 1004 <u>WRHT-31 MI 25</u> 26 Es 0213 CKCK-2 SK 1050 June 1981 6 Tr CBLFT-44, WAND-17, WICD-15, W39AA, W64AK 0916 WFIE-14 IN 375 1130 KTVS-3 CO 1025 Ann Arbor 1158 KATC-3 LA 970 1200 KTBS-3 LA 905 1228 KXAS-5 TX 1025 (now WIHT) 21 Tr 0202 IL. NY 2219 KDNL-30 MO 450 Es 1230 KATC-3 LA 970 1230 KCEN-6 TX 1090 February 1981 17 Tr 1544 WCL4-61 Oh 100 Cleveland 10 Ls 1140 KOTA-3 SD 995 Temple 17 Tr 2118 KFVS-12 MO 475 1236 KTAL-6 LA 905 2256 WICD-15 IL 305 1300 KOTV-6 OK 795 2314 WKPT-19 TN 405 Tulsa 2301 WAND-17 IL 340 2327 WCLP-18 GA 535 1352 KLNE-3 NE 860 28 Tr 0100 WTVG-13 i.d. 20 Tr 2318 Chatsworth 21 Tr IL, KY 2342 WTBS-17 GA 600 seen on CKCO-42 26 Tr II, IN Atlanta 27 Tr 0748 WAND-17 IL 340 18 Tr 0006 WZTV-17 TN 475 29 Es 0220 CBFT-2 PG 515 1140 WDDU-3 FL 1000 0759 WBAK-38 IN 290 0018 WLKY-32 KY 310 1400 WSAV-3 GA 725 0039 WBAK-38 IN 290 30 Es 0240 KPRC-2 TX 1090 0806 WTV4-36 KY 305 0815 WKMR-38 KY 290 0047 KDNL-30 MO 450 Houston 0110 WAND-17 IL 340 0138 WLEX-18 KY 305 0817 WDRB-41 KY 310 0340 KMID-2 TX 1240 0818 WKPC-15 KY Midland 0144 WKYT-27 KY " 0822 WLEX-18 KY 305 Tr " WHBQ-13 TN 0148 WJHL-11 TN 425 0830 WKSO-29 KY 370 Memphis 0841 WKYT-27 KY 305 0149 WLEK-25 IL 345 39 0214 WOWK-13 WV 280

"Total to date, 512. Well, I did get one high band Es this season as well

October 1981 Lastern TV-DX <u>July 1981</u> 25 Tr 0202 WTVS i.d. seen Paul Gaines: continued --- July 1981 11 1326 KETX-3 TX 1070 4 Es 0850 WELLE-3 ATE 870 on CKCO-42. Es 1356 KOLT-3 OK 820 Es 0244 KANK-4 TX 1100 2013 WLBT-3 M5 790 2017 WEDU-3 FL 1000 Tr 2205 WTWO-17 IL 300 Tr 2207 WGLF-39 IL 300 26 Es 1313 WCIX-6 FL 1170 WPTV-5 FL 1110 2213 WREX-13 IL " WPTV-5 FL 1110 2224 WAND-17 IL 340 28 Ms 0330 WIGE-2 IN 475 2058 KATC-3 LA 970 Tr W64AK, WTV, 5 Es 2103 KNME-5 NM 1335 8 Es 1259 KOLT-3 OK 820 2224 WAND-17 1L 340 20 Ms 0330 WIGE-2 IN 475 2233 WKPI-22 KY 345 30 Tr 2243 WIGD-15 IL 305 12 Tr 0002 WILL-12, WTV- 31 0224 Ms WIGE-2 IN 475 36, WCHS-8, WOWK-13 14 Tr 0134 WICD-15 IL 305 August 1981 0139 WAND-17 IL 340 1 Tr 0320 WNT-2 IA 415 Es 0245 KTVS-3 CO 1325 2 Tr 0038 WTVG-13 on CKCO KWCK-2 CO 1325 1300 WEDU-3 FL 1000 1324 WCIX-6 FL 1170 1331 ICh-2 Cuba 1410 1359 WUFT-5 FL 905 1526 WEAR-3 FL 870 KWGN-2 CO 1125 0125 WMEX-13, WTVO-17 1644 TN-3 Cuba 1390 2100 KaCB-3 TX 1190 0246 KDUH-4 NE 975 KOA-4 CO 1125 WIFR-23. 0345 CFTO on ch.5. 2127 KAVE-6 NM 1320 0352 KENW-3 NM 1200 0431 WISC-3 WI 315 18 Tr 0004 WTV -36 KY 305 2129 KRGV-5 TX 1380 22 Tr 0308 WREX-13 IL 300 3 Ms 0215 KTVI-2 MO 450 2127 KRIS-6 TX 1280 2317 KLNS-5 TX 1220 0320 WISC-3 WI 315 Ls 0232 CKCK-2 SK 1150 0934 WICD-15 IL 305 0936 WAND-17 IL 340 Tr C420 CBUT15-5 seen 10 Tr 0009 wICD-15 IL 305 Es 0224 Winti-3 FL 870 on CBLT-5 0937 WILL-12 IL 305 4 Tr 0924 WAND-17, WICD-15 Ls 0954 KEQV-5 TX 1380 6 Tr 0205 WTVG on CKCO. 0246 WBAZ-2 Lin 930 Baton Rouge Es 2235 CBHT-3 NS 970 0303 KDFW-4 TX 1015 1011 KBTX-3 TX 1070 1055 KNML-5 NM 1335 1131 KOAA-5 CO 1145 1158 KakA-6 CO 1125 1130 KRIS-6 TK " 8 Ms 0328 KTCA-2 MN 525 1200 KYCU-5 WY 1090 11 Ls 0330 Kram-2 WA 1680 23 Tr 0115 WAND-17 IL 340 St. Paul Ms 0310 KWGN-2 CO 1125 0428 KWGN-2 CO 1125 Spokane Es 2254 KOTA-3 SD 995 Es 2129 KTVS-3 CO 1025 2255 KTVS-3 CO 1025 2131 KOTA-3 SD 995 2320 KYCU-5 WY 1090 One of the reasons for the long report from Paul is that he was in the veterans hospital in Allen Park, MI 2324 KLNE-3 NE 860 2326 KEME-3 ND 905 for sixteen days. Paul's new stations have all been Bismarck verified by one way or another. 9 Es 0007 KOAA-5 CO 1145 2050 KTVS-3 CO 1025 2110 KYCU-5 WY 1090 It really must be wierd or nutty getting all those strange calls on channels where they're not suppose 2118 KLNE-3 NE 860 to be. I'm glad I don't live any closer to lower-Tr 2308 W46AB NY 180 Ontario than I do .-- wd. William J. Draeb: Ellis St. R.R.#2, Kewaunee, WI 54216 August 1981 17 Tr 2002 KTVJ-16 MO 633 18 Tr 0513 WPGH-53 PA 480 August 1981 9 Es 0000 KFDX-3 TX t 2005 KinNW-3 NM KOKI-23 OK 725 0532 WFMJ-21 OH 420 WYTV-33 OH WPCB-40 PA 2030 KMID-2 TX Tulsa Tr 2030 WPTT-22 PA 480 KGCT-41 OK 725 0540 WTVC-36 KY 473 KBMA-41 MO 525 2250 WCET-48 OH 400 Tulsa KAUT-43 OK 820 10 Es 2009 KTVQ-2 AT Oklahoma City 0543 WDRB-41 KY 437 KRTV-3 MT KGMC-34 OK 820 KBMA-41 MO 525 0548 WEHT-25 IN KOUS-4 MT 0552 CBLFT-44 ON 458 2031 KFBB-5 MT 11 Es 0008 CFAC-2 AT KY FC-50 MO KTVJ-16 MO 633 CFCN-4 AT KTVP-29 AR 683 0755 KGMC-34 OK Tr 0730 WFIL-14 IN 420 KGTO-36 AR t KCBJ-17 MO 450 KOZK-21 MO 589 WEHT-25 IN " KOKH-25 OK t 2050 WKYT-27 KY 473 KMTC-27 MO 14 Tr 0635 WFMJ-21 OH WYTV-33 OH " KDNL-30 MO 432 WTV4-36 KY WCET-48 OH 400 WKYI-27 KY 473 1917 KOKI-23 OK t WPTT-22 PA 480 WDRB-41 KY 437 KGCT-41 OK 1958 KAUT-43 OK t 2050 KHIN-36 IA 457 ASEL-35 PA 405 2154 WKLE-46 KY 473 WPGH-53 PA 480 WJLT-24 PA t WBTI-64 OH 400 2207 WSWN-47 VA 587 20 Tr 0713 WCLN-54 PA 405 2050 WKSO-29 KY 538 WSEE-35 PA " WSEE-35 PA WJET-24 PA 1944 WTV -36 KY 473 WKLL-46 KY " 2207 W47AB OH 2300 WKYH-57 KY 551 WPTT-22 PA 480 WTVQ-36 KY 473 KDNL-30 MO 432 0729 KDNL-30 MO 432 16 Es 2016 WASH-2 FL t WCTL-22 TN 589 24 Tr 0556 Youngstown U's 17 Tr 0813 KOZK-21 MO 589 WPGH-53 PA 480 18 Tr 0513 WKBN-27 OH KMTC-27 MO

Tr 0513 NMTC-27 MO 589

0800 WKYT-27 KY 473

WPTT-22 PA 480 (more next month-wd)

0818 KDNL-30 MO 432

0823 KCBJ-17 MO 450

WTFDA CLUB DXING STANDARDS

(Editor's Note: By popular request, we present a reprint of NTFDA's guidelines for computing TV-FA distance records and scoreboard totals. These guidelines last appeared in the VUD in January of 1978, and are the standards used by top DXers in the club. If you claim a distance record, or count your station totals, these are the "rules of the game." We invite members to discuss those standards; recently, some have proposed modification of them. In the meantime, here they are, as outlined by Glenn Hauser, former NTWDA STATISTICS editor, and a well-known DXpert. -bt)

1. A TV station received on more than one channel (when it changes channels, but retains its identity) may be counted once for each channel, excluding changes in offset on the same channel. Simultaneous reception of the same station on more than one channel is usually a receiver problem only, though you may present evidence to the contrary. An FM station may be counted again when it deliberately changes frequencies, or varies more than 100 kHz from its normal frequency. The DXer should be certain he is not counting receiver images or mixing products.

 Stations operating successively on the same charnel in a single city that are clearly unrelated (i.e. with different call letters and a hiatus in occupation of the channel, or non-renewal of the first station's license, such as WHDH and WCVB) are counted as separate stations.

3. A move in a station's transmitter location does not allow it to count as a new station unless the city of license also changes. Thus, a station starting in a small city and later moving both transmitter and identity to a larger city, if received during both phases of operation, will count twice. Stations moving antenna from downtown to suburbs, for example, with no change in the city of license, count only once.

4. A change in call letters per se is not sufficient reason to count that station as new, whether or not a change of ownership is involved in a continuously operating station. Power level or changes in power alone shall have no bearing on these guidelines.

5. Sharetime stations (e.g. UPBT and WTHS) count as one if they share their transmitter; individually if they have separate transmitter sites.

D. DX received via CATV may be covered if the station was received off the air on its original frequency at the CATV headend, from which distances must be measured. Totals including CATV should be so specified.

7. The precise location of the transmitting antenna of the station shall be the determining factor in computing the DX path distance and tallying the number of political units received.

8. Verification is not required; however, contributors must be reasonably certain that all stations claimed were received. Those totals limited to verified only should be labled as such.

9. DX obtained by recording only, and not witnessed at the actual time of reception, is eligible—so long as the contributor himself chose the frequency and prepared the recording apparatus. When more than one DXer is present at a DX reception, even as a visitor to another DXer's shack, only those having an active part in the reception may claim the DX.

10. Any station licensed to broadcast on the FM or TV bands is eligible, but transmissions outside the 54-108, 174-216 and 470-690 MHz bands is beyond our scope. Translators and experimental stations, as well as unlicensed outlets such as pirates and clandestines, are eligible. Harmonics of TV video signals are eligible if they fall within another TV band, and those of FM stations are eligible if the harmonics fall within the FM band. But utility stations monitored on FM or TV, and CATV radiation, do not count.

11. Any DX received within a 50-mile radius of a DXer's primary location may be included in scoreboard totals; but if more than two locations are used, all must be within an equilateral triangle 50 miles on each side. Include all stations eligible and monitored in scoreboard totals, whether "local" or actual DX.

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Ken Simon \$13 6th Avenue South Lake Worth FD 33460 INTERNATIONAL NOTES

Official news from CUBA is hard to get...so I must resort to a semi-official source, "Area Handbook for Cuba," from the Superintendent of Documents. Research completed March 1970...not band-only 11 years old.

In late 1968, TeleRebelde was established.

Stations listed as of 1968 are:

	•		
ch	2 Ciego de Avila	16 kw	8 kw
	2 Santiago de Cuba	14	?
	3 Holguin	27.5	13.25
	4 Habana	125	62.5
	4 Camaguey	56	28
	5 Santa Clara	25•4	?
	5 Santiago de Cuba	16	?
	6 Habana	125	62.5
	6 Camaguey	125	62.5
	7 Baracoa	30	5
	7 Ciego de Avila	18.5	9•25
	7 San Cristobal	58	?
	8 U.S. Navy Guantanamo	0.2	?
٠	8 Holguin	10	5
	8 Santa Clara	2 l _t	4
	9 Matanzas	29•3	14.7
:	ll Matanzas	42	?
:	12 Pinar del Rio	61	?
:	13 Guantanamo (Loma de Cue	va Arriba) 24	4
3	13 Matanzas	30	?
	T. 70(0 I) 1	07 TM	

In 1969, the book says there were 27 FM stations!!!

By the time you read this I'll be back from Aruba and Curacao, NWI. Hope to have all info on FMs and TVs.

France has joined the world of free FMs according to the Associated Press. It says in Paris there are 5 government stations and 27 illegals. A bill is being drafted to set legal limits for these stations.

During a recent Es opening I managed to log some foreign language broadcasts. I notice the French CBC is only IDing "Radio Canada." Also heard a program in Hindi...no, it wasn't Bombay...it was KUHF 88.7 Houston, Texas, with "Taj Express."

A recent issue of the OAS's "Americas" reports that Chile's Easter Island has TV...no channel was mentioned but the article says TV is keeping the natives "off the street."

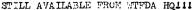
Britain's IBA has had some changes. Two commercial TV companies, Southern and Westward, have lost their contracts with the IBA. In 1982 they will be replaced by South and South East Communications (TVS), and Television South West (TSW). Their contracts will run through 1990. Breakfast TV is stated for 1983. Also, the BBC is phasing out its VHF 405-line B&W service ...this of course will mean an end to F2si

AT RIGHT: the SABC (South African Broadcasting Company) FM & TV Tower, in downtown Johannesburg.

--Courtesy of Peter V. Taylor, San Francisco, CA

YOUR GUIDE TO FM IN CENTRAL & S. AMERICA!

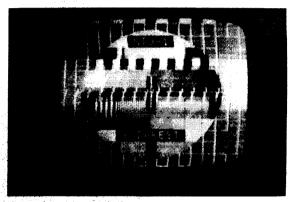






EUROPEAN TEST PATTERN UPDATE

by FRANK LUMAN



MTV-1 Budapest, HUNGARY

I noted with interest "A Look at European Test Patterns" on page 28 of the June 1981 issue of VUD. I became interested in TV DX while studying in the U.K., being a native of Colorado. I became a TV DXer over in Scotland (a state of the United Kingdom or Britain —not England) and am very familiar with EUROPEAN test cards.

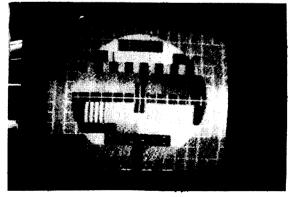
This F2 cycle has been very good for many and these patterns would have been very helpful, especially for the East Coast DXer, except for one fact—most are out of date by

many years. Two types of electronically generated test cards are used by most of the European TV companies. The first is the Philips (as in NORELCO) PM5544, and the second is the German FUBK card (FUBK--FUNKBETRIEBSKOMMISSION). Both are transmitted in PAL colour, ALWAYS THE SAME COLOUR as opposed to North America's NTSC, even via sporadic-E at 1100 miles.

It is true that RTP used the E card, TSS the 0249, BRT/RTB and YiE the cards featured on pages 28-29 of the June VUD.

Here are some "patterns" that are at most, 2 years old, and in many cases current.

Included are MTV-1, Budapest, HUNGARY--PM5544; RUV, ICELAND--FH5544 (a possible for double hop on the East Coast--maybe even single hop); DDR TV1 EAST GERMANY, JRT ZGRB 1, Zagreb, YUGOSLAVIA--German FUBK card; TVP, PCLAND-similar to PM5544. RUV ICELAND

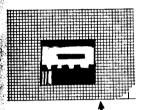


EUROPEAN TEST PATTERN UPDATE

Koith Hamer is publishing a second edition of his test card book. Another publication very useful to European TV DX is the Station Guide put out by the EBU (European Broadcasting Union).

Roger Bunney, 33 Cherville St., Romsay, HANTS., ENGLAND, will be very happy to provide info about both these publications, plus a third, the column appearing monthly in the trade publication, "Television" by IPC, which he writes.

RTP now uses a FUBK card, BRT/RTB uses a PM5544, YLE use a FUBK card, and TSS (RUSSIA) uses an electronic card called an "EZO" and a card that looks like this:



white lines T

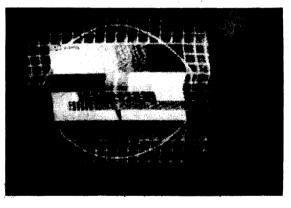
Station ID is hard enough, even with up to date info.

I trust these comments will help fellow enthusiasts geographically fortunate to get Europe!

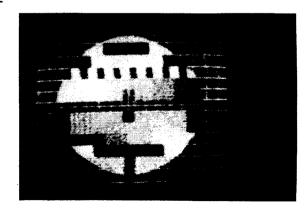
TVP, POLAND



DDR TV 1. EAST GERMANY



JRT ZGRB 1, Zagreb, YUGUSLAVIA



SHARAHOF

P\$A:

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

IN SEARCH OF PSB.....This month's feature will focus in on the radio common carrier pagers which may be either voice and tone or tone only. You might also note that a good number of these pagers identify in morse code.

pagers

		7	
43.22		43.50	
KUU-214	Cullman, AL	KWU-356	Walker, AL
KMD-986	Cullman, AL	KDH-230	South Mountain, AZ
KMD-342	Fresno, CA	KM8-986	Sacramento, CA
KMB-309	Los Angeles, CA	K MB-309	Los Angeles, CA
K#M-640	Mountain View, CA	K GA-806	Washington, DC
KRD-986	Sacramento, CA	K1E-367	Miami, FL
KUC-881	Denver, CO	KLF-662	Clearwater, FL
KCC-802	Waterloo, CT	KIE-300	Atlanta, GA
KWU-200	Delray Beach, FL	KSD-788	Aledo, IL
KIN-645	Miami, FL	KSC-644	Chicago, IL
KWU-335	Tampa, FL	KD5-797	Galva, iL
KTS-269	Atlanta, GA	KD5-784	Rochelle, IL
KBU-302	Ames, IA	KWU-536	Donaldsonville, LA
KU0-565	Alton, IL	KC8-840	Boston, MA
KDS-449	Mt. Vernon, IL	KGA-807	Baltimore, MD
K5U-898	Baton Rouge, LA	KQL-884	Detroit, MI
KCB-890		KSU-993	
KG1-277	Prince Frederick, MB	KU0-556	Clayton, MO
KR5-665	Agamenticus, ME	KAF-245	Kansas City, MO
KQK-772	Flint, Mi	KEF-267	Fishkill, NY
KSU-921	Detroit, MI	KEC-518	lóna, NY
KSU-963	Jackson, Mi	KWU-350	Johnstown, NY
K5V-921	Southfield, Mi	KEC-516	Le Fayette, NY
KIF-538	Independence, MO	KEA-627	New York, NY
KC 1-295	Manchester, NH	KEC-518	Rochester, NY
KAA-810	Neshanic, NJ	K QC -881	Cleveland, OH
KEC-521	Buffalo, NY	KUC-956	Columbus, OH
KEC-745	Bronx, NY	KRM-949	Middletown, OH
KEK-269	Rochester, NY	KUV-245	Toledo, DH
KEK-294	Schuyler, NV	KUA-287	Portland, OR
KLF-476	Cincinnati, OH	KDS-976	Linn, DR
KWU-219	Columbus, OH	KWV-325	Allentown, PA
KUU-243	Landaster, OH	KG1-782	Ephrata, PA
KUU-269	Rainer Hill, OR	KGA-804 KGC-223	Philadelphia, PA
KFL-656	Salem, OR	KGA-805	Philadelphia, PA Philadelphia, PA
KUC -634	Coumbia, PA	KUT-967	Pittsburgh, PA
KGC-223	Philadelphia, PA	KK G-501	Houston, TX
KWB-386	Philadelphia, PA	KKU-251	Houston, TX
KUV-262	Galveston, TX Tyler, TX	KWH-302	Salt Lake City, UT
KWV-252	Sal Lake City, UT	KUS-349	Hampton, VA
KWH-302	Ascutney, UT	KC1-295	Harrisonburg, VA
KCI-295 KWU-530	Spokane, WA	KSC-373	Milwaukee, Ul
KUP-258	Tacoma, WA	K3C=070	military at
10P=2 38	racoma, wn		