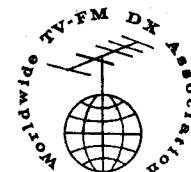




# MAILBOX



### New Members:

Eric Sundius	P.O. Box 13509 U.C.S.B.	Santa Barbara, CA 93107
Sam McKee	12 Southern Drive	Decatur, IL 62521
Steven Paradies	18 Cornwall Avenue	Milville, NJ 08332
Beresford A. Hollingsworth	Snagglan Savannah Road, Bush Hall, St. Michael	BARBADOS

### Renewals:

Lonnie Mine, Jim Gould, Joe Fela, David Walcutt, Steven Grimm, F. Smith, Richard Prelinger, John Lentz, Daniel Samer, Thomas Little, Robert Langridge, David Moody, John Parillo, Albert S. Lobel, Ron Wing, Kurt Nelson, Robert Ross, Peter Baskind, Thomas Holmes, Bruce Kampe, Andy Bolin, John Clemmer, Paul & Dave Wardell, Paul Gaines, Robert Williams, Walter Patton, Jim Ayers, Howard Bartlett, Doug Dornbos, Ed Sirovy, Fred McCormack, David Eiley, Jim Albrecht, Ralph Strobel, Mike Bugaj, John Walters, Larry Weil, Artie Bigley, Neil Kazaross, Don Ruland, Leonard Jozwiak, Glenn Hauser, Roosevelt Crawford, David Wilson.

### Rejoins:

Mark Wilson	1628F Wellerman Rd.	West Monroe, LA 71291
Paul Mount	471 Emerson Avenue	Teaneck, NJ 07666
Michael Worst	6250 Ivanhoe Ln. 215	Beaumont, TX 77706
Harry Hayes	Star Route, Box 226c	Goldsboro, PA 18424

### Address Changes:

Randy Miltier	1239 Harrison St.	Santa Clara, CA 95050
David Wilson	24-J Byron Ct. Punning Brooke Apts,	Indiana, PA 15701
Roosevelt Crawford	2964 Ulm Road #12	Hephzibah, GA 30815
William Welch	P.O. Box 1821	Tallahassee, FL 32302
Fred Holland	3 Arcadia Ct.	Little Rock, AR 72211
Glenn Hauser	Box 6287	Knoxville, TN 37914
David Legler	402 31st St. NE, Apt. 343	Rochester, MN 55901
Thomas Little	2221 Barrington Dr.	Toledo, OH 43606
William Hepburn	A.F.S. Weather Station	Eureka, N.W.T.
Richard Wood	English Dept., College of Education, Abha Branch, King Saud University, Abha,	SAUDI ARABIA XØA ØGØ CANADA

CAN YOU HELP? We are now in need of a new editor for this column. We'd like to hear from a volunteer soon. MAILBOX is one of the VUD's key columns, and we can't afford to have this position unfilled for long. If you have a typewriter, and are willing to get involved with your club as a column editor, we need to hear from you as soon as possible. VUD column editors receive a \$3 credit on their annual dues, and the MAILBOX column editor gets to hear from many club members every month. It's an ideal job for anyone with a general interest in DXing, as well as an interest in FM, PSB, and TV. If you'd like to volunteer, please contact club HQ or your editor-in-chief (address on the back cover).



# FCC TV NEWS

Bill Fahber  
336 Atlantic St.  
Bridgeton, NJ, 08302

## DIRECT BROADCAST SATELLITE REGULATIONS

On October 29, 1980, the FCC released a Notice of Inquiry, requesting comments on two staff reports on Direct Broadcast Satellite (DBS). One of these reports dealt with technical characteristics, and the other with regulatory policies. The Notice of Inquiry requested comments on two phases of regulatory policies. The first phase involved temporary regulations which would establish DBS as a new medium of communications on an experimental basis until the 1983 Region 2 Administrative Radio Conference, after which the United States and other nations affected by DBS will establish international policies which will affect national regulations. The second phase of regulation involves those regulatory proposals which will be set forth by representatives from the United States at the 1983 RARC.

On December 17, 1980, the FCC received an application from Satellite Television Corp. requesting authority to begin construction of satellites for a DBS system. On June 1, 1981, the FCC released a Notice, which set forth the proposed policies and conditions which would be the basis for the temporary regulations to be established before RARC. Also on this date, the FCC announced a 45-day cut-off period for others who wished to apply to construct a DBS system.

The Notice pointed out that the sole concern in authorizing DBS would be the public interest. In other words, its impact on UHF, DBS, LPTV, cable television, conventional television, or STV were not to be taken into account. After examining all the evidence, studies, and comments from the public, the FCC concluded that five possible benefits of DBS indicated that it could be a valuable service to the public. They are as follows:

(1) Service to remote areas. For many remote communities with little or no service, DBS appears to be the only means by which those communities may receive television services in the foreseeable future. A study by the Brookings Institution in 1973 indicates that viewers would be willing to spend over 5% of their income for three channels of network television rather than have no channel at all, and would spend an additional 0.75% for a fourth network.

(2) Additional Channels of service throughout the community. The current success of STV and cable in urban areas reveals the value placed by viewers on additional television signals. Studies being prepared by the FCC for the 1983 RARC indicate a potential in the spectrum space available for as many as thirty to forty available channels.

(3) Programming better suited to viewers' tastes. With a large number of channels available to viewers, there will be more

incentive for broadcasters to specialize and serve more varied interests. This has been the case with cable television, where increased channels have resulted in such specialized channels as Cable News Network, sports channels, religious channels, financial news channels, world news, movies, etc. This has also been the case with radio, where many stations have a basic format, such as country music, rock, disco, pop, adult contemporary, easy-listening, or talk or news. It is hoped that eventually every specialized interest will be able to find a relevant program at any time.

(4) Innovative services. Among the many applications filed with the FCC since Satellite Television Corp., there have been proposals for such experimental ideas as High Definition Television (HDTV), stereophonic sound, teletext, and dual-language sound tracks.

(5) Non-entertainment services: Other potential uses include educational programming, transmission of medical data, etc.

After examining the possible disadvantages and adverse effects DBS may have on other existing services, the FCC determined that they are far outweighed by the potential benefits of DBS, and is considering the band around 12.2 to 12.7 GHz as an ideal range for DBS.

One other issue is brought up in the June 1, 1981 Notice. The World Administrative Radio Conferences of 1977 and 1979 anticipated that Region-2 countries might wish to establish STV systems prior to RARC-1983, and their Final Acts gave the go-ahead for any Region-2 nations to begin an interim DBS service. At the 1983 RARC, the Region-2 nations will send representatives who will negotiate international rules to govern DBS. Once those rules are established, they are subject to ratification by each nation. The FCC is conducting a proceeding parallel to this, in which proposals to be submitted by United States representatives to RARC are being established. The Department of State and the National Telecommunications and Information Administration are also working on those proposals. The rules which RARC finally drafts may be slightly different from the FCC's interim rules, or they may be completely different. How will the changes in DBS rules affect systems already being built? What if too many applications are granted in the interim by the FCC before it was learned that there would be fewer available channels than expected? How would the adoption of interim rules affect the United States' negotiating flexibility at RARC? What could be gained by establishing interim rules?

In the 6/1/81 Notice, the FCC proposed to

## FCC TV NEWS

OCTOBER, 1982

establish rules for DBS in the interim period prior to the 1983 RARC and to process applications to provide DBS service, even though the outcome of the RARC-83 may affect those rules. Not only will this give DBS a head start (It will take years before a DBS system goes into operation), but it will also provide valuable experience that would allow the FCC to make better-informed judgments concerning permanent regulations.

There have been mixed comments concerning this issue. Some insist that authorization of DBS before RARC will restrict our negotiating ability. Others felt that interim DBS rules and authorizations would strengthen our position at RARC. The FCC pointed out that the go-ahead by the 1977 and 1979 WARC was an indication that interim rules should have no negative effect on our position at RARC.

In addition to the Public-Interest issue and the RARC-83 issue, a third issue dealt with the impact DBS may have on other forms of local broadcasting. A key issue brought up is this: Is the FCC authorized under the Communications Act to establish a nonlocal broadcasting service? Some commenters wrote to the FCC that Section 307(b) of the Communications Act prohibits the FCC from authorizing DBS systems because these systems would be nonlocal in character, would bypass existing local stations, and would not provide broadcast outlets to local communities.

The FCC does not feel that section 307(b) restricts its authorization to local systems only, but rather asserts that the policy of localism underlying radio and television regulation was adopted by the FCC as a matter of choice, not by statutory command.

Many comments pouring into the FCC warned that DBS would reduce the audiences and revenues of local broadcasters, thus reducing the quantity and quality of locally-produced programming or public service programming.

A few comments suggested the possibility that DBS could compete with terrestrial network and local service to the point where DBS would win out over the other. In other words, DBS may become so successful as to

out all local television services. A report prepared for it by Kalba Associates, which predicted that the effect of a subscription DBS service would be to have a significant effect on broadcast television, but the report also predicted a major effect on STV and MDS. A separate study by Arthur D. Little, Inc., also predicted a major effect on STV and MDS.

It is required to consider the economic impact of a new service on existing services only if there is strong evidence that a significant net reduction in revenues to the public will result. The FCC is not projecting a new service solely because it will reduce the revenues or profits of existing licensees. There is no evidence that DBS will affect existing broadcast services. The Kalba-Bowen report and the A.D. Little Study both predicted a

negligible effect on conventional terrestrial broadcasters.

A fourth issue raised in the Notice deals with spectrum allocation and sharing that spectrum with fixed service operations presently using that spectrum. The FCC proposes 12.2-12.7 GHz for satellite downlinks and 17.3-17.8 GHz for uplinks. Existing terrestrial users of the 12 GHz band will be required to operate on a reassigned frequency or else modify their equipment so as to avoid interfering with DBS systems. The cost would be borne by the fixed service operator, but the FCC proposes a limited period of time in which DBS and fixed services would be co-equal, and during which normal replacement of equipment may occur, so that fixed services could gradually relocate to another band at their convenience. This would minimize the cost of equipment modifying to fixed services.

Commenters replied to the FCC that there should be an adequate replacement spectrum provided for fixed services before interim rules for DBS are adopted. Some commented that DBS operators should absorb the cost for the relocation of fixed services. There were also suggestions that parts of the 12.2-12.7 band be reserved for high definition television. ABC, NAB, and an organization of network affiliates prefer reserving those frequencies for terrestrial HDTV only. But other groups warn that this will restrict HDTV to an elite few, whereas a satellite HDTV system would be available to everybody.

The Aerospace and Flight Test Radio Coordinating Council petitioned the FCC on August 12, 1981, to reconsider its policies concerning the availability of the 12 GHz and other bands for meeting the requests of operational fixed services, and requested the FCC to defer action on DBS authorizations which would defer use of those bands by terrestrial microwave systems. According to the petition, the FCC should consider what communications requirements are being met by the 12GHz band, and what characteristics of that band are unique in fulfilling those requirements. Also, what other bands are available to OFS, and how do those bands compare with 12 GHz? Can terrestrial systems share the band with DBS to any extent?

The FCC acknowledges the concerns of operational-fixed microwave users, but does not feel that the inconvenience to them should preclude the potential benefits of DBS toward the public interest. Nine applications for DBS service have already been filed, proposing wide varieties of system design, service offering, and spectrum requirements. STV, HDTV, and advertiser-supported television are all proposed (note the absence of any educational interests.) Over 35 video channels would be provided by these applicants, and a minimum of 500 MHz bandwidth would be required. The FCC's Advisory Committee for RARC-82 predicts the U.S. requirements for DBS would reach 65 to 207 channels by 2000 a.d., and the 12 GHz band is the best band for which the technology will be available within the next few years.

The 500 MHz bandwidth being considered has the following advantages: (1) Increased number of channels available, making DBS more viable by reducing the cost of home equipment (steerable or multiple antennas would not be needed); (2) competition would be increased by decreasing risks for later DBS suppliers; (3) greater operational and technical flexibility (HDTV, bilingual, etc.); and (4) use of future large space communication platforms would be more feasible.

The FCC has also considered 17.3-17.8 GHz as the 500 MHz band for satellite uplink.

Presently the 12.2-12.7 GHz band is used for fixed service only. Specifically, there are about 1900 microwave links in this band as of May, 1982, and growing at a rate of 15% per year. These systems provide private, industrial, transportation, and safety services and are used by local governments, banks, newspapers, railroads, utility companies, universities, colleges, and so on. A normal microwave link covers a six-mile-long path. This band is especially congested in urban areas. Most of the links in this band could be accommodated in the 18 GHz area or higher. Those links which could not be accommodated could share the 12.7-13.25 GHz band presently used for broadcast-auxiliary service, common carrier local television transmission service and the cable television relay service.

WARC-79 opened 12.1-12.7 GHz originally to DBS, with the understanding that 12.1-12.3 GHz would be under consideration, the lower portions being allocated to fixed-satellite services and the upper portion for fixed and broadcasting-satellite services. The FCC is anticipating 12.2 GHz to be the lower limit of DBS to be determined at RARC-83.

As noted earlier, some of the comments submitted to the FCC favored use of the 12 GHz band for HDTV. Actually, there have been comments to the FCC stating that this band should be restricted to HDTV only, eliminating the potential for DBS, with the vision that HDTV in the GHz range will ultimately replace the incompatible VHF-UHF television of today.

The policies which the FCC was developing with respect to DBS during this interim period cover several areas. The first area involves regulation in general. The FCC approach, as noted in the 6/1/81 Notice of Proposed Policy Statement and Rulemaking, is that of minimal regulatory requirements. This policy would allow DBS operators to experiment with service offerings and methods of financing. It would allow the FCC to acquire better information about the behavior and structure of DBS. Also, the FCC feels that with the heavy competition on the market forcing broadcasters to provide what the public wants in diversity, regulation should not be needed. Some comments sent in to the FCC accused the FCC of abdicating its responsibility to protect the public interest, but other comments defended the FCC's stand, stating that minimal regulation will stimulate the growth of DBS.

A second policy and regulation area has to deal with the status of a DBS licensee as

a broadcaster or a common carrier operator. A broadcaster not only transmits signals, but also determines the program content of what is being transmitted. A Common Carrier has the means of transmitting a signal, as well as a license to do so, but offers its services to another party which determines the program content. (Cable companies, for example, are common carriers, not broadcasters.) Common Carriers are required to provide non-discriminatory access to their facilities without exercising control over the message content. Broadcasters are given broad discretion in determining the content of the programming they transmitted, and, with limited exceptions, were not required to provide access to their stations by others. Congress itself determined that no broadcast stations shall be considered a common carrier. But if an owner of a DBS satellite leases transponders to another company without any stipulations about program content in the contract, would that DBS satellite owner become a common carrier at that point? The FCC has decided to require DBS systems to operate under its own classification during this interim period, and until its experimental period has run its course, after which the FCC will be more able to classify it as a broadcaster, a common carrier, or a private radio operator, or some combination of the three.

A third area of policy and rulemaking has to do with ownership and control of DBS systems. The Notice recommended no restrictions on ownership or control during the interim period. There are enough substitutes for DBS services already in existence to prevent abuses of power. Existing antitrust laws are sufficient enough to provide adequate protection against possible abuses of market power due to concentration of control. The introduction of DBS service is expected to enhance First Amendment rights of free expression and the public's access to diverse ideas and points of view.

A fourth area has to do with access by corporations and organizations to DBS. Must an owner-operator of a DBS system provide its services to certain groups, such as nonprofit organizations? Because of the great financial risks being involved in an experimental system, the FCC feels that such a requirement would impede the ability of a marketer to achieve a return on his investment, and also reduce the incentive for persons wishing to initiate this new service.

The fifth area is one where the FCC does take strong action, and an area which has virtually nothing to do with telecommunications per se: Equal Employment Opportunity requirements, which will be the same as for conventional broadcasters.

A sixth area involves the responsiveness of the DBS operator to the viewers' needs. On this issue the FCC is again taking no action for interim ruling, since the presence of many available channels may provide the variety of programming needed to meet those needs.

The seventh area deals with technical standards. The FCC is not proposing any stand-

ards other than what was that which was specified in the WARC-77 Final Acts. Any DBS authorizations during the interim period would be subject to modification as a result of standards which will be established at RARC-83. Despite the feeling of many, that standards need to be established to ensure compatibility of DBS signals, the FCC feels that imposing standards at this time could stifle the development of DBS technology.

High Definition Television is an eighth area of policy and regulation, but in a sense it is connected to technical standards. CBS takes the stand that 12.2-12.7 GHz should be used strictly for HDTV. CBS foresees an eventual transition from conventional television to HDTV, a move that would eventually empty the VHF-UHF bands of all conventional television. Such a move would require channels to be allocated in the GHz spectrum. But by the FCC's refusal to impose standards, the area is still open for experimenting with HDTV as well as other standards. In fact, as one of the applicants for DBS authorization, CBS is the only one to propose HDTV exclusively. (You may remember that CBS is presently introducing Japanese HDTV technology into the United States, and has already staged several demonstrations for the FCC and individuals in the television industry.) The key issue in the FCC's stand on HDTV vs. DBS is again the public interest. Any transition from conventional television to HDTV, if there ever is a transition, would be slow, whereas any reservation of the 12 GHz band to HDTV would deprive the public of DBS.

One last area of policy involves licensing and procedural requirements. Applicants would be required to conform to technical guidelines specified in the Final Acts of WARC-77. Interim authorizations would be subject to modifications resulting from determinations made at RARC-83. Applicants may request certain frequencies and orbital positions, but none will be assigned by the FCC until after RARC-83. The FCC will continue to accept applications for DBS authorization. Upon grant of a construction permit of a satellite station, the station must be in operation within six years. An applicant must specify the type of technology to be employed, and the type of service to be provided. All frequencies and orbital positions will be considered to be of equal value, thus eliminating conflicting requests for available frequencies and orbital slots as long as there are frequencies and slots still available.

Having studied the comments sent in with regard to its Notice of Proposed Policy Statement and Rulemaking, the FCC then adopted rules for the interim period before RARC-83. These rules are basically the same as what was originally proposed. These rules were published in the 7/21/82 Federal Register (pp. 31555-31578), and go into effect 8/20/82. The FCC cautions that at any time it may change these rules or add other

DBS: WHAT CAN WE EXPECT FROM IT?

Wilson P. Dizard was Vice Chairman of the U.S. Delegation to WARC-79, and wrote a paper dealing with the United States' stand on the international implications of DBS. This was published in the 4/80 Journal of Communication, published by the Annenberg School of Communications, University of Pennsylvania, and is also published in The Cable/Broadband Communications Book, Vol. 2, 1980-1981, edited by Mary Louise Hollowell. It brings up the issue of signals being transmitted by one nation, which could also be received by another nation.

The International Telecommunications Union called for the 1963 World Administrative Radio Conference to discuss satellite communications. At that time the French delegation proposed to modify the ITU regulation prohibiting any broadcasting from any type of ship, airplane, etc. outside national territories. The French proposed to include satellites in that rule, but that proposal was turned down.

In 1967, the United Nations passed its ambiguous Outer Space Treaty. It allowed nations to conduct outer space activities within the bounds of international law. It also promotes the right of individuals to receive information regardless of frontiers (international boundaries). However it also contained portions which implied some restrictive principles governing the content of space broadcasts, and made references to UN resolutions defining and condemning propaganda, applying them to space activities.

In 1972, the United Nations General Assembly passed a resolution establishing principles governing the use of broadcasting satellites. The United States was the only nation to vote against it. Shortly afterwards, the UNESCO General Conference voted a "Declaration of Guiding Principles on Satellite Broadcasting."

When the United Nations General Assembly reconvened in 1973 to work on principles governing broadcast satellites, differing opinions arose. Most third world and communist nations insisted on the right of one nation to agree with another nation on what would be transmitted by a broadcast satellite into that nation. The United States was opposed to the adoption of any principles. Some nations took a middle ground, favoring agreement on satellite transmissions as such but without reference to program content.

In supporting its position on not adopting any principles which could restrict the program content, the United States brings up two conflicting concepts. One is "prior consent" in which a nation which is capable of receiving broadcast signals should have some say in the transmission of material to which it is opposed. The other concept is "free flow of information," or free exchange of ideas. This means that anybody should have access to broadcasts from other nations without censorship by his own government. The failure of the UN to resolve these two opposing concepts has resulted in the absence of a treaty governing DBS, but with DBS projects being

formed in various regions around the world, the political issue may eventually become academic.

While Mr. Dizard expects DBS to overcome such international entanglements, an article which appeared in the 8/21-27 TV Guide (at least in the American editions) written by Frank Doonegan, entitled "DBS: Direct Broadcast Satellite? or Doomed Broadcasting System?" gave a negative view on the future of DBS. He cited the constant delays suffered by some of the DBS applicants, resulting in constantly setting back their target dates, and the predicted high costs for dish antennas and subscription rates. In the article, Mr. Doonegan eases the fears that DBS might become a threat to existing television systems.

However, James H. Quello, one of the Commissioners of the FCC, states, "I am particularly concerned that local broadcasting services be given full consideration in any equation which examines this new DBS service. Localism has, traditionally and as a matter of Commission policy, been the bedrock of the broadcasting service in this country." "Thus to the extent that DBS supplants local broadcasting as a distributor of non-local, entertainment programming, economic support for local program production might well be diminished. My concern is not in protecting the profits of local broadcasters but in protecting continued and enhanced local broadcasting service." "My support (of DBS), however, is tempered by my concern that localism must not be sacrificed. I do not fully share the confidence expressed in the Report and Order that localism has nothing to fear from DBS. At the same time, neither do I believe that the death knell of local broadcasting is being sounded by the action."

As stated earlier, CBS petitioned the FCC to allocate the entire spectrum in question for High Definition Television. This proposal had the support of most commercial broadcasters. Despite the fact that the FCC had turned down the CBS proposal, CBS is still pushing HDTV, and hopes that a part of the 12 GHz band may still be left for HDTV. CBS has been transmitting a HDTV signal on 12 GHz in San Francisco from 3/5/82 to 5/18 with what it calls promising results, and a report on that experiment was sent to the FCC recently. CBS plans to continue its push for HDTV. Stanley S. Hubbard, president of United States Satellite Broadcasting, one of the applicants for DBS authorization, stated that he had observed HDTV demonstrations in Europe in which Japanese NHK technology was used, and was unimpressed. He says that HDTV isn't worth the trouble. Judging by the lack of action by the FCC on the matter, it appears that the Commission seems to agree.

What form DBS eventually takes remains to be seen. Personally, I think of the great promises connected with Low Power television and how reality slowly crept in and disillusioned many. DBS will find its greatest competition in pay television, whether it be MDS, STV, or cable. And the deregulation of STV will greatly increase that competi-

tion. Unless DBS has something better to offer, it will not be able to compete with existing subscription services. The general public is interested in entertainment, not a novel technology. And although the FCC has in mind the remote communities with limited television service, the big bucks are in the cities, which are already being filled with MDS, STV, and numerous cable offerings, in addition to network stations, independent stations, and educational stations.

Apparently some of the applicants are proposing systems beamed toward the eastern United States, with future plans to expand across the rest of the nation. But if the big bucks don't come in from the eastern United States as hoped, there will be no incentive to proceed with future plans, and the western half of the United States may never get DBS. I foresee some of these applicants dropping out, but others to go on into DBS with limited plans. I don't expect to see the DBS spectrum becoming crowded with dozens of channels to choose from. Perhaps DBS will become a Doomed Broadcasting System.

THE RACE FOR DBS BEGINS

Only seven weeks after the FCC issued its Notice of Inquiry, and before the Notice of Proposed Policy Statement and Rulemaking was published, Satellite Television Corp., a subsidiary of COMSAT, applied for authority to begin construction on two satellites for a satellite-to-home video broadcasting system. The second satellite is intended as a backup in case something went wrong with the first satellite. On June 1, 1981, the FCC accepted the application for filing, and established a 45-day period in which it would accept other applications.

On October 28, 1981, the FCC accepted for filing eight of the applications received. Others were rejected for various reasons. The eight accepted were from: (1) CBS, Inc.; (2) Direct Broadcast Satellite Corp.; (3) Focus Broadcast Satellite Company; (4) Graphic Scanning Corp.; (5) RCA American Communications, Inc.; (6) United States Satellite Broadcasting Co.; (7) Video Satellite Systems, Inc.; and (8) Western Union Telegraph Company. Focus and Western Union both proposed use of the Advanced Westar satellite around 12.1-12.2 GHz. As stated earlier, CBS proposed a system consisting of only HDTV channels. Direct Broadcast Satellite Corp. plans to offer its services as a common carrier.

Other applications are being sent in to the FCC. Satellite Syndicated Systems, Inc. is proposing a pay-per-view and pay-per-series system with five satellites: four operational and one spare. There would be one satellite for each time zone, and six transponders on each. SSS would use four transponders of each satellite, and lease the other two. Oak Satellite Corp. plans to start with two channels serving the northeast (big dollar area) and eventually growing to twelve channels covering the entire United States, and then going on to HDTV and teletext.

APPLICATIONS FOR NEW BROADCAST STATIONS		
CH	ERP	HAAT CITY/STATE/APPLICANT
26	662	473 Hot Springs, AR; Edw.M.Johnson
56	661	467 Danville, KY; Robert L. Bertram
25	114	317 Biloxi, MS; Hightower Partnership
25	690	273 Biloxi, MS; Payvision Communic'n's
25	2500	1533 Gulfport, MS; Four-O, Inc. (Biloxi assignment)
48	457	300 Natchez, MS; Southern Bc'g Co.
45	713	134 Lincoln, NE; Linda D. Clevenger
51	712	135 Lincoln, NE; Payvision Communic.
15	665	274 Abilene, TX; Lea County Telev'n.
3	93.8	170 Gallup, NM; Lea County Television
48	665	260 Las Cruces, NM; Lea County Telev.
17	665	179 Bartlesville, OK; Lea County Tel.
24	665	250 Odessa, TX; Lea County Television
46	81	1820 Cidra, PR; Jose E. Cordero
20	102	822 Ponce, PR; Norman E. Parkhurst
42	84	979 San German, PR; Gos Broadcasting
14	2512	2688 Boise, ID; Sterling Associates
29	97.2	749 State College, PA; Lion Country Television
55	5000	489 Kenosha, WI; Family Television 55, Limited.
68	.528	472 Humacao, PR; Samuel Lugo Perez
24	4370	1390 Toledo, OH; Citicom Broadcasting of Ohio, Inc.

CONSTRUCTION PERMITS FOR NEW BROADCAST STATIONS GRANTED BY THE FCC		
CH	ERP	HAAT CITY/STATE/APPLICANT
26	1820	1669 Daytona Beach, FL; Daytona Beach Television Associates, Ltd.
54	1614	1236 Columbus, GA; Columbus Family Television, Inc.
8	316	714 Iron Mountain, MI; John R. Powley
54	166	371 Muskegon, MI; Apogee-Bonnee Assoc
40	1493	1082 Jackson, MS; Jackson Family Telev
50	1430	704 Derry, NH; CTV of Derry, Inc. (Manchester, NH Assignment)
39	1762	808 Murfreesboro, TN; Channel 39 of Murfreesboro, Inc.

APPLICATIONS FOR NEW BROADCAST STATIONS DISMISSED BY THE FCC		
● Tucson, AZ; ch. 40; Focus Broadcasting of Tucson, Inc.		
● Daytona Beach, Florida; ch. 26; Daytona Beach Family Television, Inc.		
● Columbus, GA; ch. 54; Beacon Broadcasting, Inc.		
● Iron Mountain, MI; ch. 8; TV-8, Inc.		
● Muskegon, MI; ch. 54; Apogee, Inc.		
● Jackson, MS; ch. 40; Big River Broadcasting Company; Media South Broadcasting Corp.; Television Corporation of Mississippi.		
● Manchester, NH; ch. 50; Golden Triangle Broadcasting Corporation		
● Murfreesboro, TN; ch. 39; Family Television		
● New Bedford, MS; ch. 28; Filmways Television Broadcasting, Inc.		

APPLICATIONS TO MODIFY CONSTRUCTION PERMIT (all for new stations; none on the air yet)		
CH	ERP	HAAT CITY/STATE/APPLICANT
31	5000	1075 Denver, CO; KTMX-TV (channel now occupied by KAZXEH)
24	148	319 Moline, IL; WQPT-TV
32	nc?	nc? New Orleans, LA; WLAE-TV; TL to 0.42 miles west of the intersection of Paris Road and Bayou Bienvenue, New Orleans (original application specified at that intersection.)
33	1122	1079 Springfield, MO; KSPR-TV
30	2500	1002 Memphis, TN; WBAH

APPLICATIONS TO MODIFY CONSTRUCTION PERMIT GRANTED BY THE FCC. *= granted to modify a construction permit to change the facilities of a broadcast station already on the air. Others are to modify construction permit to build a new broadcast station.		
CH	ERP	HAAT CITY/STATE/APPLICANT
16	1140	1150 *Dayton, OH; WPTD
52	5000	1385 Cocoa, FL; WTGL; TL to Desert Ranches, Star Route 1250, Melbourne, Florida
23	3055	1199 Albany, NY; WXXA-TV
43	4088	1434 *Melbourne, FL; WMOD
56	1230	732 Fairfax, VA; WNVG (channel now occupied by KAZXEH)
46	443	n.c. *Monterey, CA; KMST
26	500	1555 *Chicago, IL; WCUI-TV; TL to Sears Building
20	2421	1239 Chicago, IL; WCME; TL to 875 North Michigan Avenue
29	1811	1226 Minneapolis, MN; WFBT-TV; TL to Gramsie Road, 0.4 mile east of Victoria, Shoreview Village
12	316	1403 Pembina, ND; KWBA; TL 7.5 miles WNW of Pembina

APPLICATIONS TO CHANGE EXISTING FACILITIES		
CH	ERP	HAAT CITY/STATE/APPLICANT
7	195	2645 Boise, ID; KTVB
11	316	1769 St. Louis, MO; KPLR-TV
9	316	1769 Eugene, OR; KEZI-TV; TL to 7 miles NE of Eugene
43	2698	1360 York, PA; WSBA-TV; TL to 1/2 mile NE of Chimney Rock
35	2190	1090 Lima, OH; WLIO
21	2820	1830 Hanford, CA; KFTV
38	1030	972 Terre Haute, IN; WBAK-TV
3	70	1687 Brian, TX; KBTX-TV
39	5000	1950 Houston, TX; KHV

CHANGES IN EXISTING FACILITIES GRANTED		
CH	ERP	HAAT CITY/STATE/APPLICANT
9	316	1601 El Centro, CA; KBCY-TV (began 7/7/82)
15	553	1300 Champaign, IL; WIGD (limited program test authority)
17	640	798 Rockford, IL; WTVO (limited program test authority)
12	316	n.c. Walker, MN; KMNT (began 7/19)
20	1070	n.c. Athens, OH; WOUB-TV (began 7/26/82)
13	n.c.	1930 Houston, TX; KTRK-TV, TL 1/2 mile E of S. Post Road & FM Road No. 2234 Intersection, near Houston (began 7/19/82)
15	2500	965 Hampton-Norfolk, VA; WHRO-TV
66	5000	550 Manassas, VA; WTKK (granted special temporary authorizat'n)
19	625	1140 LaCrosse, WI; WXOW-TV
11	135	1280 Louisville, KY; WHAS (began 8/3/82)
3	64.6	1935 Wilmington, NC; WWAY; TL to 5 miles NNW of Bolivia on Lewis Swamp Road; Circular Polariz'n.
10	229	890 Columbus, OH; WBNS-TV (began 8/6/82)

NEW CALL LETTERS APPLIED FOR		
CH	C. L.	CITY/STATE/APPLICANT
28	WPMX-TV	Panama City, FL; Kenneth B. Darby
54	WKMT	Muskegon, MI; Apogee-Bonnee Assoc
18	WJLH	Laurel, MS; Capitol Broadcasting
16	WRDG	Burlington, NC; National Group Telecommunications
52	KSBI	Oklahoma City, OK; Satellite Broadcasting Company

17 KCBR Des Moines, IA; Independence Broadcasting Corporation

61 WVCJ Bay City, MI; Vistacom, Inc.

48 WGGG-TV Greenwood, SC; Metro Communications South, Inc.

CALL LETTER CHANGES APPLIED FOR  
10 KTSP-TV Phoenix, AZ; KOOL-TV  
54 WTBY Poughkeepsie, NY; WFTI-TV

CALL LETTERS ASSIGNED: NEW STATIONS  
3 KTWC Glenwood Springs, CO; Western Slope Communications

CHANGES IN STATION IDENTIFICATION GRANTED  
\* KCSM-TV, ch. 60, San Mateo to ID as San Mateo-San Francisco

CHANGES IN TABLE OF ASSIGNMENTS  
Salem OR: delete \*3+  
Bend, OR: add \*3+  
(Applied for by Oregon Educational and Public Broadcasting Service, licensee of KVDO-TV ch. 3, Salem, Oregon. Their license is modified to specify Bend as the city of license. KVDO-TV is 17.4 miles short-spaced to KATU, channel 2 in Portland, Oregon. The reallocation to Bend would eliminate the short-spacing and provide both stations with interference free service to larger areas, in that KVDO-TV will be allowed to relocate its transmitter location.)

STATIONS ON THE AIR  
● WXXA-TV, channel 23, Albany, NY; began 7/30/82; 3055 kW ERP visual; 1199' HAAT; 465' above ground; 2119' ASL. TL on Camp Pinnacle Road, New Scotland (as per construction permit modification granted 7/26/82). Address: Albany TV 23, Inc., Box 6423, 815 Central Avenue, Albany, NY, 12206.  
● KDSE, channel 9, Dickinson, North Dakota; began 8/4/82; 265.5 kW ERPvis; 806' HAAT; 578' AG; 3509' ASL. TL 10 1/2 miles South, 6 miles West, of Dickinson. Satellite of KFME, Fargo. Address: Prairie Public Television, Inc; 4500 S. University Drive, Fargo, ND; 58103.

APPLICATIONS FOR SUBSCRIPTION TELEVISION  
● KSCH-TV, ch. 58, Stockton, CA  
● WTVZ, ch. 33, Norfolk, VA

STV AUTHORIZATION GRANTED BY THE FCC  
● All ABC-owned stations and affiliates wishing to carry Home View Network

CONSOLIDATED HEARINGS  
● Irving, Texas; channel 49; CELA, Inc.; Irving Texas TV, Inc.  
● Bayamon, Puerto Rico; channel 36; Church Faith Is the Victory; Puerto Rico Family Television, Inc.; Caribbean Broadcasting, Inc  
● Wichita Falls, Texas; channel 18; First City Media, Inc.; Thornberry Television, Ltd.  
● Racine, Wisconsin; channel 49; Racine Telecasting Company; Channel 49 of Racine, Inc. (Channel 49 of Racine plans STV).  
● Waco, Texas; channel 44; Waco Community Media, Ltd.; Focus Broadcasting of Waco, Inc.; Latin American Broadcasting, Inc.  
● Quincy, Illinois; channel 15; Believer's Broadcasting Corporation; Wooster Republican Printing Company

RESULTS OF CONSOLIDATED HEARINGS  
● Tucson, Arizona; channel 40; Granted application by J. P. Communications, Inc. and dismissed application by Focus Broadcasting of Tucson, Inc.  
● Daytona Beach, Florida; channel 26. Two applicants, Daytona Beach Television Corp., and Daytona Beach Family TV, Inc., merged into Daytona Beach Television Associates, Ltd. Application for Daytona Beach Television Corp. was modified to read Daytona Beach Television Associates; application by Daytona Beach Family Television was then dismissed.  
● Columbus, Georgia; channel 54; application by Beacon Broadcasting, Inc. was dismissed; construction permit was granted to Columbus Family Television, Inc.  
● Iron Mountain, Michigan; channel 8; application by TV-8, Inc., was dismissed and construction permit granted to John R. Powley.  
● Jackson, Mississippi; channel 40; applications by Big River Broadcasting Company, Media South Broadcasting Corporation, and Television Corporation of Mississippi were dismissed, and construction permit was granted to Jackson Family Television, Inc.  
● Manchester & Derry, New Hampshire; channel 50 (Manchester assignment); dismissed application by Golden Triangle Broadcasting Corporation for broadcast station in Manchester; granted construction permit for CTV of Derry, Inc., for television station in Derry.  
● Seattle, Washington; channel 22; Seattle STV Company and Tavitac Corporation merged into Seattle Broadcasting Corporation. Tavitac's application was modified to read Seattle Broadcasting Corp., and was granted a construction permit. Application by Seattle STV was dismissed.  
● San Antonio, Texas; channel 29; Construction permit was granted to Alamo Broadcasting Corporation (decision being based on grounds of superior ownership-management integration proposal). Applications by Christian Tele-Communications, Inc., Las Misiones De Bejar Television Company, and United Television Broadcasting Corporation were dismissed.  
● Wichita, Kansas; channel 24; Reversing an earlier decision by Administrative Law Judge, the FCC granted construction permit to Columbia-Kansas TV, Ltd. and dismissed application by Greater Wichita Telecasting.

FORUM  
Ronald Purdue sent in an article from the 8/3/82 Rochester, Minn. Post-Bulletin, on KXLI-TV, ch. 41 in St. Cloud, Minnesota. The station hopes to go on the air in November, 1982. The owners hope to reach some of the Minneapolis-St. Paul market area. An existing well-developed cable-TV system isn't expected to hinder the success of KXLI-TV. (With two more stations to go on the air soon, KXLI will have more competition. Also, where is the transmitter located? WWAC-TV, ch. 53 in Atlantic City could have had much more coverage, but most of New Jersey's antennas were pointed toward Philadelphia. Nobody in my area ever received WWAC-TV, but I could get it in crystal clear every night. If everybody in St. Cloud has antennas pointed toward the twin cities, how many people will be able to

receive a clear signal? WRBV in Vineland is having the same problem, not only antennas in the wrong direction, but well-covered cable television. The prospects for a community TV station within range of a major metropolitan area are not always the greatest, but good luck to KXLI-TV. -wbf)

Robert Grant asks, "Have you heard about the Houston station that was seen in England in 1953- 2 years after the station stopped operating?" Actually, I'm still trying to find out about the station that stopped operating in Houston in 1951. The only station I could find record of was KPRC-TV, channel 2, which is still on today. Either this was a rerun, or something which somebody reported to a DX column. Network changes reported by Bob: KOMU, ch. 8 in Columbia, MO, changed from NBC to ABC; KCBJ-TV in the same city went from ABC to independent. (A double slap in the proud peacock's face. -wbf). WSAU, ch. 7 in Wausau, WI is now WSAW. Bob reports seeing CKND-TV-2 on channel 2 (Minnedosa, Manitoba) by meteor scatter. Apparently a new station on the air in Canada. WSEJ-TV, Newark Ohio, is now on channel 51. Two channel 9 stations, WWTW in Cadillac, MI and WABO, Wausau, WI, produce heavy zero CCI beat, and neither can change its offset. Two more all-night stations are WDIV, ch. 4 in Detroit ("Sonya" reruns) and WTMJ-TV, ch. 4 in Milwaukee, WI (CN2).

Bruce Elving sent in an article (Rochester Post-Bulletin again, 7/20/82) with lettering on it that matches Ron Purdue's lettering. It's about KFSD-FM, Rochester, Minnesota, a new station operating on 88.5 MHz, but has been forced to reduce its power by the FCC because of interference to KAAL-TV, channel 6 in Austin, which, according to the writer of the article, broadcasts at 87.5 MHz (I never claimed that the press was accurate in reporting news, did I? -wbf). The radio station has been operating under STA for some time now, and wants to go to full power. Nearly all of the interference complaints from the public have been taken care of, and the main source of interference problems seems to be attributed to faulty receivers. (The FCC has been doing some work on the problem of educational FM stations interfering with channel six. Perhaps I can work up a report on that in the near future.) Dr. Elving also passes on a report from John Davis Small of Utica, Illinois: A new television station in Bloomington, IL, owned by Grace Communications Corp. (WBLM, ch. 43. -wbf) is hoping to go on the air by 8/16. It will run nostalgic and family-oriented programming, and Illinois State Mens Basketball games.

Speaking of Ron Purdue, he sent me another letter with Minnesota happenings. KXLI-TV, St. Cloud, MN, hopes to go on the air around Nov. 1, give or take two weeks. It will be a full time commercial independent station with mostly sports and syndicated reruns. KTMA, ch. 23 in Twin Cities, will be 100% STV, offering SPECTRUM, and will operate 15 hours on weekdays and 20 hours on weekends. There has been very little promotion in the news for KTMA. WFBT, ch. 29, will go on around October, with

70% religious programs and 30% family-oriented programs

Greg Monti made some observations while in Alaska (Anchorage). A new independent station is expected to sign on shortly on ch. 4 (KTBY, owned by Totem Broadcasting -wbf). Only local television is three networks and PBS. No UHF, except translators (I guess up there nobody believed the FCC when it lifted the freeze. They were still freezing. -wbf). There is no antenna farm (They wouldn't grow up there anyway -wbf); local antennas are at different sites and only about 300' tall (see what I mean? -wbf). MDS is used to transmit HDO, and seems to be very popular; quite a bit of illegal reception apparently with not much law enforcement against piracy. There are many types of MDS receiving antennas on the housetops. Greg also sent in some news: the latest FCC involvement with the UHF handicap. I will use this to supplement an article I'm working up for next month. But if you have access to the Federal Register, look up 8/18/82, pp. 35975-35990.

Glenn Hauser sent in an article from the 8/8/82 Amarillo Sunday News-Globe about the proposed UHF station there on channel 14, and owned by Ray Moran. TL is to be at the former KWAS radio tower near US 60 and FM 2176, a few miles north of Amarillo. This will be their first UHF station, where there are now three network stations on UHF. The station, KJTV, will be carried by local cable systems but the signal won't be available to those outside the Amarillo area. (Must be another one of those weak stations. -wbf) Programming will consist of old syndicated programs, movies, sports, and two hours a day of Amarillo College broadcasting. A few other notes from Glenn: KAUT, ch. 43 in Oklahoma City, has been running weather radio on its barker while on STV. KM2KKA, channel 7 in Knoxville had been broadcasting old movies with occasional World Fair promotions, but is now running hour-long tapes giving details about the fair. Glenn visited the studio, and noticed a compact control room, stacks of video recorders, and WXPO stationery already printed, preparing for their post-experimental period. Glenn reports seeing something on ch. 44 coming from Ciudad Juarez, Chih. when he was in El Paso, but didn't see any ID. (There is a ch. 44z assignment there, but the latest microfiche didn't mention anything on that channel. Could be that the Mexican government never bothered informing the FCC.)

From Bill Draeb: WCMU-TV, ch. 14, Mt. Pleasant, MI, now has xlr W46AC operating in Traverse City. The station announced another translator being proposed on ch. 69 in Sutton's Bay. Bill also reports seeing a new translator around Crystal Falls, Mich., on ch. 47 re broadcasting WJMN, ch. 3, Escanaba, MI. (I hope to have another translator update in the December issue. -wbf) Bill reports seeing KDNL-TV, ch. 30, St. Louis, MO, with STV, but couldn't make out its barker channel if there was one.

NEXT MONTH: THE SCOOP ON LPTV; NEW FCC RULES ON THE UHF HANDICAP; AND RETROSPECT TAKES TO THE SKIES LITERALLY;





October 1982

Fred Nordquist
7945 Boxford Road
Clay, NY 13041

Deadline: the 5th

FM SCOREBOARD

Table with columns: DXer, Location, Rank, Total, 88-92, Es, MS, Au, USA, CN, MX, FO, TPU, YB, As of. Lists FM DXers and their station logs.

\*V=Verified. Hank also notes that he has 145 QSEs for call changes (not included in his totals above).

Column Definitions--for FM Scoreboard; 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 Mhz. 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. YB = the year you began DXing. Those of you have not sent in your updates this year, please do so by the end of the year, as the 1981 data will be dropped from the FM Scoreboard after this year. Thanks for all your inputs and comments/suggestions.

NEW FM DISTANCE RECORDS

Table with columns: Mhz, Prop, CL, Location, Miles, DXer, Location, Old Record, Holder-Miles. Lists new distance records for various frequencies.

See next page---

FM STATISTICS

October 1982

New FM Distance Records - continued. The new distance records supercedes those applicable records completely listed in the Sept 1980 VUD plus new records listed in the following VUDs: Feb 81, Jun 81, Oct 81 and Jun 82. I plan to republish a completely updated Alltime FM Distance Records listing in the Dec 82 VUD (3 1/2 pages long). So review your distance records and send them to me as soon as possible. It is requested that you include the time & date of reception, your DX location, and estimated distances to the nearest 5 miles. I will check the mileage using my Rand McNally USA wall map and a paper tape calibrated in 5 mile increments. Any corrections to my measurements should be brought to my attention.

The following statistical data presents how successfully FM DXers are logging the highest and second highest number of FM radio stations for each state, Canadian province, Mexican state, and from each foreign country (political unit) -- from a specific DXer's location.

STATES STATES

Table showing FM DXer statistics for various states and countries, including columns for State, # of DXers, and DXer call letters.

CANADA STATES

Table showing FM DXer statistics for Canadian provinces, including columns for Prov., # of DXers, and DXer call letters.

MEXICO STATES

Table showing FM DXer statistics for Mexican states, including columns for State, # of DXers, and DXer call letters.

OTHER FOREIGN STATES

Table showing FM DXer statistics for other foreign countries, including columns for Ctry, # of DXers, and DXer call letters.

Key to STATES recordholders' initials referenced above

Table mapping initials to DXer names and locations for the states and countries listed above.

If you can better these records, send them to me for updates. Fred

# SOUTHERN FM DX

Danny Buntin  
1312 N. Skyline  
Stillwater, OK 74074  
DEADLINE: 5th

SOUTHERN FM DX

Jefferson, cont.

OCTOBER 1982

OCTOBER 1982

AUGUST 1, GOOD ES DAY

John Jefferson, 4016 Crest Court, Pleasanton, CA 94566 - 4/11 to 8/7

Time to catch up on reporting. Finally found a company on 5/1 willing to put up a 40' mast for me. Will take on a 20-footer, but pass on 40'! The main idea was to solidify KCSM San Mateo, the only local with post-midnight classics. If it was useful for DX, so much the better, but was afraid the added height would let the locals saturate the band. Well, it didn't work out that way. Most locals peaked up nicely, but the skip signals for the most part gained even more! This season would've been disastrous with only the old antenna; often there were identifiable signals 55' up that hardly touched the old 15' antenna. As for KCSM, of all the stations in the area I swear they improved the least! Signal gain was slight, and multipath now obvious at times when it was not before. Oh, well, I tried.... Anyhow, the Mac MR-80 is now driven by a Channellmaster Stereoprobe-9 FM antenna 55' off the ground, with the old Winegard CH-6055 at 15' as a little used backup.

New logging are underlined. New to Pleasanton are starred. New mode indicated by --. CV stands for Castro Valley, where my old Heathkit AJ-15 is driven by an ancient(1967?) Winegard about 25' off the ground. (My parents live on the side of a hill, so height calculation is a rough average.)

4/11 gw  
1635 KBOQ 92.7 CA Marina, ID, c, new 75  
station(CV)

tr  
2329 KBOQ\* 92.7 CA Marina, ID (much 75  
harder here due to mountains in the way)

4/18 tr 95  
0330 K288BU 105.5 CA Mariposa, KEBR ID, 1w.  
4/30 MS

0800 KJOI\* 98.7 CA Los Angeles, ID 305  
5/2 tr

1253 KTED 96.7 CA Fowler, locan ann. 125  
5/5 tr 70

0035 K249AR\* 97.7 CA Salinas, KEAR ID, 1 w.  
0120 K220AG 91.9 CA Marysville, KCHO ID.

10 w., (Reportedly better coverage than KCHO.) 100

5/6 tr  
0929 KJOI 98.7 CA Los Angeles, ID 305  
(First tr ever for LA stations not on  
5900' Mt. Wilson!)

5/8 tr  
0114 KLTA\* 98.9 CA Dinuba, ID 150  
5/10 Es

1240 KSET 94.7 TX El Paso, K-set 970  
1247 KTSM 99.9 TX El Paso, ID

tr  
2040 KTFI 103.1 CA Tehachapi, local 255  
talk pgm. Most distant class A via tr.

5/12 tr  
1033 KHTZ 97.1 CA Los Angeles 315  
2207 KJEL\* 89.3 CA San Jose, s/off

5/14 MS  
0730 KVOD 99.5 CO Denver, ID 915  
5/20 Es

1315 XHMAT 99.5 SI Mazatlan, ID in 1350  
1320 XHCNA? 100.1 SI Culiacan, SS mx &  
ann. c

1330 XH?? 90.55 Time, "Super estereo 90"  
note below.  
1345 XH?? 94.7 SS mx, relaying noisy  
AM signal

5/24 Es (weak)  
1125 KIXY 94.7 TX San Angelo, Kixy 1285  
1149 KPLX 99.5 TX Ft. Worth, calls 1425

5/27 tr  
0102 KCSB 91.9 CA Santa Barbara, ID 245  
185 w., DA aimed south.

0648 KLOS 95.5 CA Los Angeles, ID, kr 315  
0917 KNOB 97.9 CA Long Beach, local ad 330

6/5 Es  
0830 KFLX 99.5 TX Ft. Worth, calls 1425  
0833 KEGL 97.1 TX Ft. Worth, Eagle, l. ann. c

0837 KEBA 90.1 TX Dallas, wx, cl  
0843 KLVU 98.7 TX Dallas, local ads  
0913 KWOA 95.1 MN Worthington, ID 1390

(How's that for variety?)  
6/7 Es  
0730 KEZB 93.9 TX El Paso, ID 970

6/18 tr 120  
0050 K285AQ 104.9 CA Ukiah, KEAR calls, 1 w.?

6/19 Es  
1913 KEBZ 92.9 OK Tulsa, calls 1425  
6/20 Es

1617 KAWY 94.5 WY Casper, ID 885  
1619 KTRS 95.5 WY Casper, ID, wx 885

6/23 Es  
2330 XH?? 90.55 SN CD. Obregon 1030  
Super estereo again, this time with local  
refs.

6/24 Es  
1036 KSUC 88.3 TX Keene, l. ann., calls 1415  
1037 KTCU 88.7 TX Ft. Worth, cl, verified phone

1039 KAFM\* 92.5 TX Dallas, Dallas ad 1425  
1042 KMUL 103.1 TX Muleshoe, calls 1085  
1047 KVPR 95.5 TX Haskell, calls 1270

1100 KGNC\* 97.9 TX Amarillo, ID 1115  
1103 KFAN 106.3 TX Hereford, ID 1085  
1112 KLUR 99.9 TX Wichita Falls, calls 1320

1115 KOCC 88.9 OK OKC, j, phone verie 1355  
1119 KYBE 95.3 OK Frederick, ad 1270  
note below

1148 unID 90.1 K-sez, c mx  
1211 KKNP 103.5 NE North Platte, KX-104 1120  
and station address

6/27 Es  
1342 XHCNA 100.1 SI Culiacan, local ads 1250  
(signal to 9 on meter!)(In continuously o/  
local KFMR from 1325-1358. No ID) cont....

6/27 Es  
1359 XH?? 90.55 SN Cd. Obregon, gave 1030  
time as 2pm, their unID, station add., no  
calls! (in from 1317-1436 almost continuous)

1400 XHMAT 99.5 SI Mazatlan, ID in SS  
7/2 Es  
0905 KDSU 91.9 ND Fargo, ID 1405  
0930 KYYY 92.9 ND Bismarck, Y-93 1230  
0931 KQND 90.5 ND Bismarck, c, phone verie

7/3 tr  
0900 KBIG 104.3 CA Los Angeles, good \$  
until 1000+ (other Mt. Wilson FMs &  
UHFs in, too) 315

Es  
1039 KNIN 92.9 TX Wichita Falls, ID 1320  
1111 KTCU 88.7 TX Ft. Worth, ID 1415  
1120 KYBE 95.9 OK Frederick, ID, 1270  
changed from 95.3 ca 6/30

1142 KPMX 94.5 TX Lubbock, FMX 1150  
1200 KUNM\* 90.1 NM Albuquerque, ID 875  
1201 KLYT 88.3 NM Albuquerque, ID  
1211 KIXY 94.7 TX San Angelo, ID 1285

7/9 Es  
0705 KDCR 88.5 IA Sioux Center, UPI nx,  
ID 1400  
0712 KKYA 93.1 SD Yankton, ads, Kk93 1325  
0714 KVDE 94.3 IA Sioux Center, calls 1400

0715 KYLR 95.9 IA Estherville, ann. 1460  
0720 KEEZ 99.1 MN Mankato, ID 1495  
0721 KICD? 107.1 IA Spencer, k o/KSOL  
0723 KLOH 98.7 MN Pipestone, loc. ad 1380  
0729 KMIT 105.9 SD Mitchell, loc. ad 1285

0730 KDLH 95.9 MN Faribault, ID 1530  
0731 KIOW 104.7 SD Sioux Falls, loc. ad  
0859 KOSU 91.7 OK Stillwater, partial 1370  
ID, time, c

0912 KITO 95.9 OK Vinita, ID 1440  
0917 KUAL 103.1 OK Enid, calls, ad 1320  
0922 KOBC 90.7 MO Joplin, calls 1495  
0930 KDKQ 104.3 TX Borger, Q-104, calls 1145

0934 KTTL 93.9 KS Dodge City, calls 1195  
0935 KXLS 99.7 OK Alva, ad, 1st out 1280  
of stater ever on 99.7.

1005 KEBC 94.7 OK OKC, calls 1355  
1044 KESS? 93.9 TX Ft. Worth, SS  
1048 KLVU 98.7 TX Dallas, love radio 1425  
1053 KLUR 99.9 TX Wichita Falls 1320

1110 KNIT 95.3 MN Portales, ann. 1050  
1113 KRLE 99.5 TX Lubbock, loc. ref. 1150  
1117 KASK 103.1 NM Las Cruces 940  
1129 KEZB 93.9 TX El Paso, ID 970

1204 KUT? 90.5 TX Austin, c, tent. due to  
next item  
1213 KUHF 88.7 TX Houston, calls 1605  
decent stereo

1330 KLYT 88.3 NM Albuquerque 875  
1346 XHMAT 99.5 SI Mazatlan, calls 1350  
1347 XH?? 90.5 SN Cd. Obregon, 1030  
Super estereo 90. on freq for a change.

1430 KENW 89.5 NM Portales, ID 1050  
1509 KUPO 97.9 TX Odessa, loc. ref. 1170  
1811 KNEN 94.7 NE Norfolk, calls 1290  
1813 KKYA 93.1 SD Yankton, loc. refs 1325

1823 KMSC 88.3 IA Sioux City, calls, r  
1830 WDLM 89.3 IL E. Moline, wx, ID, 1650  
AM s/off

1833 WERN 88.7 WI Madison, c, phone verie  
1837 KFBQ\* 97.9 WY Cheyenne, Q-98 935  
1841 KXCV 90.5 MO Maryville, ID 1440

7/9 Es  
1845 KBXL 106.7 NE Norfolk, loc. anns. 1290  
1855 WBEM 96.3 IL Chicago, add, calls 1790  
1856 KISW 99.9 WA Seattle, ID 705  
(antenna still aimed East!)

1902 KIOS 91.5 NE Omaha, ID 1395  
2000 KGND 90.5 ND Bismarck, ID 1230  
(10 on signal meter! 5 is a good signal for  
serious recording)

(Quite a day)  
7/10 Es  
1145 KEOZ 92.3 KS Newton, calls 1310  
1147 KJCK 94.5 KS Junction City, ads 1340  
1154 WJWB 97.3 KS Topeka, ads 1395  
1200 KILO 93.9 CO Colo. Spr., calls 915  
1206 KSKG\* 99.9 KS Salina, loc. ref 1310  
1212 KXXX 100.3 KS Colby, loc. refs. 1115

1234 KRSL 95.9 KS Russell, loc. refs., 1200  
"Carousel in Russell" (in & out since 1201)  
1242 KCKS 95.3 KS Concordia, calls 1295  
1450 CBUTr? 90.9 BC Kersley, CBC's "the  
Radio Show"

1453 CBUTr? 90.7 BC Kersley, // 90.9  
1457 KCMU 90.5 WA Seattle, calls 705  
1459 KYYX? 96.5 WA Seattle, r  
1501 KLSW 99.9 WA Seattle, ID, strong  
1501 KSEA? 100.7 WA Seattle, Ann's, nothing  
ID'able

1503 CBYG? 91.5 BC Prince George, // 90.9, 90.7  
1505 CFRQ? 102.7 BC Vancouver, French  
1530 CHQM 103.5 BC Vancouver, QM-FM 820  
(in 1505 - 1535)

1532 KACS? 89.3 WA Ollapia, SS in \$ o/KVPR  
7/12 tr  
1032 KAGO 99.5 OR Klamath Falls, "K-99 305  
is the Rock", phone verie (northernmost  
trops ever)

2310 KCFR 91.3 CA San Luis Obispo, loc. refs  
still at -1000' aat 160  
7/13 tr  
0030 KTED 96.7 CA Fowler, ID 125  
7/15 MS

0241 KRQY 98.9 CO Pueblo, calls 935  
7/16 MS  
0250 KRQY 98.9 CO Pueblo, calls 935  
7/19 MS

0050 CKO4 96.1 BC Vancouver, CKO 820  
Es  
1052 KUAT 90.5 AZ Tucson, ID 735

7/22 Es  
1806 KCND 90.5 ND Bismarck, ID (1st 1230  
Es to hit 12 on signal column, most locals  
don't.)

1810 KYCK 97.1 MN Crookston, calls 1435  
1812 KLOH? 98.7 MN Pipestone, ad 1380  
1824 WERN 88.7 WI Madison, c 1720  
1829 WDLM 89.3 IL E. Moline, calls 1650

1830 KNVO 90.7 NE Omaha, j calls 1395  
1856 KBSD 88.3 SD Brookings, dual ID w/KUSD  
1900 KGND 90.5 ND Bismarck, ID 1230  
1900 KURO? 92.1 SD Huron, U-92  
1902 KKKG 94.3 SD Brookings, ID 1340  
1903 KENE 95.9 WY Worland, calls, ad 845  
1905 KWOA 95.1 MN Worthington, calls 1390

1911 WCCO 102.9 MN Minneapolis, ads 1550  
1918 WGLC 99.5 MN Minneapolis, calls 1550  
1922 KRNA 93.9 IA Iowa City, ads 1590  
1923 KEZO? 92.3 NE Omaha, Z-92 cont....



7/23 Es  
 1729 KOEZ 92.3 KS Newton, calls 1310  
 1733 KEYE 95.9 TX Perryton, loc.psa 1155  
 1735 KEBC 94.7 OK CGC, CGC ref. 1355  
 1742 KJCK 94.5 KS Jct. City, ref 1340  
 1744 KILN? 97.1 NE North Platte, Ogallala ref, "Your Kirsten music source"  
 1752 KHUT 102.9 KS Hutchinson,loc. bb1280  
 1800 KZZL 99.5 IA Le Mars, ID 1400  
 1808 KLZR 105.9 KS Lawrence, calls 1400  
 1810 KBEQ 104.3 MO KC, "Q-104 in KC" 1450  
 1810 KCUR 89.3 MO KC, opera, phone verie  
 1813 KTYL 93.9 KS Dodge City, calls 1195  
 1816 KBRA 97.9 KS Wichita 1315  
 1832 KXNP 103.5 NE North Platte,loc. ref.  
 1845 KGBI 100.7 NE Omaha, calls 1395  
 1902 KZZL 99.5 IA Le Mars, Sioux City ad

7/24 Es  
 1133 KAVI? 95.9 CO Rocky Ford, La Junta ad  
 And that's it. May and June really not much, in spite of almost daily skip on ch. 2, but July spectacular. (Note, though, that almost everything was distant - whatever became of the sub-1000 mile skip? And those 1400+ milers barely heard on old antenna, so good thing the new one was up!) Totals stand at 645 for bay area, with 636 here in Pleasanton and a whopping 206 in Castro Valley (where I lived from 1967-1974, vs only 31/2 years here!) (In addition to above: 7/25 Es 0900 KOMX 100.3 TX Pampa, ID 1145, 0901 KYTX 98.7 TX Amarillo, loc. ref. 1115.)

Rick Samford, 404 S. McNeill, Burnet, TX 78611 - July 29 to Sept.1 CDT

7/30 tr  
 1100 KQRK 98.3 TX Bandera, new, TSN nx,k\$  
 8/1 Es  
 1221 WFYN 92.5 FL Key West, ID in wx  
 1701 WHAJ 104.5 WV Bluefield  
 1703 WSLX 97.9 TN Nashville  
 1708 WQHY 95.5 KY Prestonburg, r  
 1720 WKCE 100.5 WV Huntington, ad, ID  
 1722 WSLQ 99.1 VA Roanoke, Q-99, wx  
 1724 WXBQ 96.9 TN Bristol  
 1725 WKCC 96.5 WV Williamson  
 1730 WBKW 99.5 WV Beckley, ID after wx, g  
 1734 WYON 101.9 W Logan  
 2034 WGTG 92.3 IN Bloomington, //WTT5 1370  
 2035 WENS 97.1 IN Shelbyville, ID  
 2040 WMDH 102.5 IN New Castle  
 2042 WJZZ 105.9 MI Detroit  
 2045 WLLZ 98.7 MI Detroit, rp  
 2047 WMHE 92.5 OH Toledo, 92-5 FM  
 2052 WLSB 102.7 MI Mount Clemens  
 2057 WJR 96.3 MI Detroit, EZ; 2058 WLVQ  
 8/1 Es Columbus, OH  
 2100 WASK 105.3 IN Lafayette, k  
 2102 WKDD 96.5 OH Akron, rp  
 2104 WLBH 96.9 IL Mattoon, wx  
 2110 WACF 98.5 IL Paris

August 1 had pretty good skip during most of the afternoon and early evening. However, I managed to DX only a small portion of the time, with my modest showing for that day being the result. KAZI 88.7 in Austin may soon be joining KUT as another new FM outlet for that city. I'll let everyone know when KAZI finally comes on the air. 73s, Rick.

Jim Pizzi, P. O. Box 1778, Lovington, NM 88260 (505) 396-3432 - 8/1 to 8/9

8/1 Es  
 1614 WZCC 92.9 GA Atlanta, ads 1098  
 2-93, promos  
 1619 WCOS 97.9 SC Columbia, ID 1621 1287  
 MUF to ch. 7  
 1631 WENN 107.7 AL Birmingham, tent. s  
 1637 WMAZ 99.1 GA Macon, FM-99, promo 1148  
 1639 WCUP 100.3 GA Tifton, ID + cup 1170  
 1640 WKTM 102.5 SC Charleston, "KTM" 1359  
 1643 WANS 107.3 SC Anderson, ID 1197

7/24 tr 150  
 2347 KMFB\* 92.7 CA Mendocino, j calls,psa  
 7/26 Es  
 1614 KXIT 95.9 TX Dalhart, calls 1045  
 1615 KMRE? 95.3 TX Dumas ref. to Willis???  
 1635 KR7Z 98.7 CO Cortez, calls, ad 730  
 1640 KGLV 99.1 MN Clovis,loc. refs 1060  
 7/28 Es  
 2105 KNFM 92.3 TX Midland, calls, k 1175  
 8/1 Es  
 1105 KIXY 94.7 TX San Angelo, calls 1285  
 1108 KSJT? 97.5 TX San Angelo, SS, Slightly better on CH-6065 than on s/probe-9!  
 1114 KBLL 92.9 TX San Angelo  
 8/5 MS  
 0143 KRQY 98.9 CO Pueblo, calls 935  
 0200 KAAK 98.9 MT Great Falls, time  
 8/7 MS  
 0115 KTOY 91.7 WA Tacoma, calls, psa 675

8/1 Es  
 2112 WCZY 95.5 MI Detroit  
 2117 WFMK 99.1 MI East Lansing  
 2125 WGMZ 107.9 MI Flint, EZ  
 2127 WFGU 107.1 IL Urbana, Jazz-107, wx for Champaign-Urbana  
 8/4 tr  
 0900 WQNZ 95.1 MS Natchez, now 95-Country  
 8/14 tr  
 0848 KNAN 106.1 LA Monroe, r  
 0852 KMBQ 93.7 LA Shreveport, Q-93  
 0901 KTRY 94.3 LA Bastrop, s  
 8/23 tr  
 0902 KODK 92.7 TX Kingsville, r  
 8/25 tr  
 0928 WRPM 107.9 MS Poplarville, area ad  
 8/28 GW  
 1759 KESS 94.1 TX Ft. Worth, first time noted at new freq.; ex-93.9

9/1 GW  
 0900 KPEZ 102.3 TX Austin, ex-KMXX, now EZ-102-FM, no longer SS  
 0906 KUT 90.5 TX Austin, ex-90.7, 1st day on air at new freq., now w/100 kw, \$, TX #230

8/1 Es  
 1908 WXLK 92.3 VA Roanoke, K-92, ID 1341  
 1916 WGNL 102.7 NC Wilmington, calls 1463  
 1917 WRLX 103.1 SC Honea Path, X-103 1202  
 1919 WSLQ 99.1 VA Roanoke, ads 1341  
 1925 WTOP 104.1 NC Winston-Salem, wx 1328  
 1929 WTVK 107.7 TN Knoxville, calls 1125  
 1930 WSEZ 93.1 NC Winston-Salem 1328  
 1932 WMAK 92.1 TN Hendersonville, ads 968  
 1934 WDCG 105.1 NC Durham, ads, G-105 1400  
 1938 WKZZ 107.5 NC Winston-Salem, ads 1328  
 1942 WABD 107.9 KY Ft. Campbell, calls 932  
 1943 WJYN 105.9 TN Nashville, Joy-106 WJYN  
 1947 WMMO 102.1 NC Reidsville, g, promos  
 1952 WMTT 106.9 NC Black Mt., tent, g  
 1953 WMYU 102.1 TN Sevierville, U-102 1136  
 1959 WQSC 101.1 KY Gazard, ID 1170  
 2002 WMSG 97.1 NC Greensboro, ID 1350  
 2004 WXCX 96.5 WV Williamson, ID 1220  
 2020 WCLR 103.7 WV Beckley, CIR 1292  
 2021 WXBQ 96.9 TN Bristol, calls 1224  
 2022 WRBK 98.7 NC Greensboro, ads 1350  
 2034 WDFP 103.3 TN Nashville, KDF 969  
 2039 WIMZ 103.5 TN Knoxville, calls 1125  
 2100 WKPT 98.5 TN Kingsport, calls, ad1197

Well, it's been one full year at this DX location with totals on FM at 460. It took many years in California to reach that. No real improvement in equip.--just location. VT-900 tuner acting up again--can't take these long DX sessions! 5 hrs. on 8-1 and 1 1/2 hrs. on 8-9. Latter opening died out in a few mins.--from FM to ch 3 only ch 2 left.

George Rogers, 320 Lafayette Rd., Chickamauga, GA 30707 - 7/26 to 8/26 EDT

Equip: General Electric Superadio

I'm about to wind up a great E-skip season and begin a good tropo season. \* Indicates ID taped, + Indicates ID heard. All DX based on where the E-skip or tr is coming from.

7/26 Es  
 2224 KRCS 93.1 SD Sturgis, k  
 2226 KKLJ 93.9 SD Rapid City, m FM-94  
 2228 KVSF 97.9 SD Rapid City, g +  
 2240 KGFB 92.7 SD Pierre, r +  
 2242 KOLL 93.5 WY Gillette, local ads  
 7/27 Es  
 0929 WDHP 96.9 ME Presque Isle, r +  
 0955 CBPF 93.7 PQ Lac Megantic, FF  
 0956 CBV 95.3 PQ Quebec City, c  
 1020 KPRM 97.5 MN Park Rapids, ad  
 1024 CBON 98.1 ON Sudbry, FF  
 1027 CFQC 93.9 PQ Trois Rivières, FF, m  
 1029 KNNS 96.9 MN Grand Rapids, area ad  
 1030 WKKQ 93.9 MN Hibbing, area ads  
 1031 KAXE 91.7 MN Grand Rapids, c  
 1034 GBFB 100.1 PQ Trois Rivières, FF nx  
 1036 KYTN 94.7 ND Grand Forks, local ad  
 1037 CJMF 93.3 PQ Quebec City, FF ad  
 1040 CHMM 97.5 MB Winnipeg, ads \*  
 1043 CBJ3 93.1 PQ Dolbeau, FF talk  
 1110 CKSB7 93.5 ON Kenora, FF talk  
 1111 CBON24 97.3 ON Nipigon, FF nx  
 1112 CBCN1 98.9 ON Nipigon, talk  
 1118 WSCD 92.9 MN Duluth, c  
 1122 WNSA 89.9 WI Brule, c  
 1124 CBON20 89.3 ON Thunder Bay, FF  
 1137 CBON22 93.7 ON Geraldton, FF talk +  
 1157 CHAY 93.1 ON Barrie, r  
 8/1 Es  
 1323 XHSH 95.3 DF Mexico City, ads, SS  
 1330 XHCE 95.5 QUE Queretaro, SS, loc. ad  
 1711 KRUX 102.5 TX Lubbock, k  
 1713 KTEZ 101.1 TX Lubbock, m, FM101  
 1715 KBIM 94.9 NM Roswell, m \*

8/9 Es  
 2130 KDFM 92.1 CA Walnut Creek, ads, ID  
 2132 KAER 92.5, tent  
 2134 KUIG 95.3, tent  
 2138 KOSO 93.1 CA Patterson, KO-93  
 2141 KOIT 96.5 CA San Francisco, EL  
 2142 KABL 98.1 CA San Francisco, calls 1116  
 2144 KYUL 99.7 CA S. F., ID @2148  
 2150 KBLX 102.9 CA Berkeley, no nuke pgm  
 2151 KGO 103.7 CA S. F., talk  
 2152 KHOP 104.1 CA Modesto, r  
 2153 KSMN 104.7 CA Los Banos, ID @2200  
 2153 KFCG 104.5 CA S. F., ID @2200  
 2153 KDCS 104.9 CA Fremont, SS  
 2154 KEWT 105.1, tent  
 2154 KBRG 105.3 CA S. F.  
 2155 KSOL 107.7 CA San Mateo, s  
 2155 KEAR 106.9 CA San Francisco, ID @2159  
 2156 KEZR 106.5 CA San Jose, ID  
 2156 KMRL 106.1 CA S. F. "Camel 106" @2203  
 2157 KARA 105.7 CA Santa Clara, r  
 2158 KSTN 107.3 CA Stockton, SS  
 2158 KMBY 107.1 CA Seaside, calls  
 2205 KIOI 101.3 CA S. F., "K-101"  
 2207 KSPM 102.5 CA Woodland, r

8/1 Es  
 2114 KOB 93.3 NM Albuquerque, r  
 2124 KKHJ 93.9 SD Rapid City, m  
 2125 KRCS 93.1 SD Sturgis, k  
 2134 KGNC 97.9 TX Amarillo, m #98 +  
 2135 KTQM 99.9 NM Clovis, local ads  
 2136 KCLV 99.1 NM Clovis, local ad \*  
 2138 KICA 107.5 NM Clovis, k \*  
 2151 KHEQ 107.1 TX Canyon, ads, Q-107 \*  
 2154 KPAN 106.3 TX Hereford, m  
 2158 KFMG 107.9 NM Albuquerque, r  
 2200 KLSR 105.3 TX Memphis, SL \*  
 2205 KRPT 103.7 OK Anadarko, k, K-104 \*  
 2210 KQTP 105.9 OK Hobart, r, KQ-106 +  
 2214 KKJY 100.3 NM Albuquerque, m  
 2218 KWBY 97.3 OK Weatherford, k  
 2219 KATX 97.3 TX Plainview, k  
 2220 KYTX 98.7 TX Amarillo, pr, KY-99 +  
 2222 KWAS 101.9 TX Amarillo, g +  
 2223 KLTE 101.9 OK Oklahoma City, old r  
 2235 KINN 105.5 NM Alamogordo, r  
 2240 KWXL 94.1 NM Albuquerque, r  
 2246 KHCC 105.5 TX Levelland, k, weak

8/2 tr  
 1015 WAMZ 97.5 KY Louisville, k  
 1018 WGGC 95.1 KY Glasgow, k  
 8/4 tr  
 1150 WOFM 94.9 TN Greenville, k  
 1205 WQXI 94.1 GA Atlanta, r, 94-Q +  
 1210 WQCK 93.3 GA Manchester, k, QC-93 +  
 2107 WWCQ 104.1 GA LaGrange, k, CG-104 +  
 2188 WKQC 98.1 KY Lexington, area ad  
 2120 WKLD 97.7 AL Oneonta, k

8/8 Es  
 1930 KCB 93.3 NM Albuquerque, sports  
 1932 KAMZ 93.1 TX El Paso, r

8/10 tr  
 1020 WHOP 98.7 KY Hopkinsville, k  
 1021 WQUT 101.5 TN Johnson City, ad  
 1023 WAKQ 101.1 KY Russellville, ad  
 1025 WXBQ 96.9 TN Bristol, k

8/11 MS  
 0855 WQAL 104.1 OH Cleveland, m  
 tr  
 0923 WRBQ 104.3 GA Augusta, P. Harvey nx  
 0955 WVOC 102.9 GA Columbus, k V-103 +  
 1029 WKPT 98.5 TN Kingsport, m, ID  
 1058 WAMZ 97.5 KY Louisville, k

Total stations to date 950. I'm using the Chickamauga log only from now on when I make reports. I'm looking forward to a great tropo season and I hope to get a 900 mile tropo opening this next month. 7s and 3s for now.

Charles George, 6407 Howard, Dallas, TX 75227 GDT

8/1 Es  
 1700 WDSC 92.9 SC Dillon, pop mx  
 1710 WFBC 93.7 SC Greenville, pop mx  
 "FM-94" & "Superstation"  
 1715 WHSC 97.3 NC Wilmington, pop  
 1730 WFAE 90.7 NC Charlotte, NPR playhouse  
 1731 WSNC 90.5 TN Collegeville, NPR prog.  
 (I think this was what I heard even though it is shown on a different freq. in FM-At.)

I also got throughout the opening these stations I never could get IDs from: a station classical and gospel mx on 94.5, a station with soul music played by white male announcer with "B-100"; a station with k music on 102.5, a station with disco on 104.3. KKDA-104.5 was off the air making

8/11 Es  
 2130 KWKY 94.9 NM Aztec, r, 95-Quick \*  
 2133 KRWN 92.9 NM Farmington, local ad  
 2225 GHMM 97.5 MB Winnepeg, r  
 8/12 MS  
 1111 WVIC 94.9 MI East Lansing, r  
 8/13 tr  
 0820 WEZI 105.9 TN Memphis, m \*  
 0850 WDEB 103.9 TN Jamestown, local ad  
 0905 WWSB 102.5 AL Jasper, g  
 0910 WLET 106.1 GA Toccoa, area ad  
 0920 WCPC 93.3 MS Houston, area ad  
 ms  
 0958 WAEZ 97.5 OH Akron, m  
 tr  
 1150 WBFM 98.1 SC Seneca, g +  
 1205 WSPA 98.9 SC Spartanburg, m  
 1357 WKIR 104.1 TN Jackson, k \*  
 1359 WMC 99.7 TN Memphis, r, FM-100  
 1430 WQKM 103.5 MS New Albany, k, OK-Country +  
 1454 WZXR 102.7 TN Memphis, EBS test  
 1507 WAAW 103.7 KY Murray, area ads  
 1511 WRVR 104.5 TN Memphis, r  
 1520 WBLE 95.9 MS Batesville, k  
 1540 WJHR 103.1 TN Jackson, local ad, J-103 \*  
 1715 WVNA 100.3 AL Tusculumbia, ad \*  
 1924 KTMO 98.9 MO Kennett, farm nx \*  
 1928 WSTG 106.3 AL Sheffield, g  
 2203 WFHC 91.5 TN Henderson, folk music  
 8/16 tr  
 0916 WDRN 105.3 GA Macon, k  
 0920 WPEZ 107.9 GA Macon, local ad, EZ108 +  
 1042 WBAM 98.9 AL Montgomery, old r, 99-FM +  
 8/23 tr  
 0930 WVOC 102.9 GA Columbus, k  
 0942 WEZI 105.9 TN Memphis, wx  
 0945 WYSH 104.9 TN Clinton, ID  
 8/25 tr  
 2235 WMC 99.7 TN Memphis, ads  
 2238 WZXR 102.7 TN Memphis, pr, Rock-103  
 2240 KWAM 101.1 TN Memphis, soul, Magic-101 \*  
 2245 WDRM 102.1 AL Decatur, local ad  
 2255 WYSH 95.3 TN Clinton, k, ex-104.9  
 8/26 tr  
 0905 WSTG 106.3 AL Sheffield, local ad  
 0911 WUGL 98.3 TN Pulaski, local ad  
 1035 KLRJ 90.5 AR Little Rock, c (WSMC off)  
 1037 WCPC 93.3 MS Houston, m  
 1039 WAGC 90.7 GA Augusta, c #950

it easier to hear the station easier to hear, however, I still did not catch ID. Aug. 1: 2130 WCZY 95.5 MI Detroit, pop (I relogged many from my Es opening on July 17, 1980)

8/16 tr  
 0745 KUT 90.7 TX Austin, Morning Edition w/ locally produced c mx prog. I had never heard this station before, even though I have been receiving KLBJ-FM 93.7 and KASE 100.7 almost every morning and evening during the spring, summer, and fall tr.  
 0815 KRGT 92.1 TX Taylor, tent, Spanish pr.  
 8/23 tr  
 0745 KWEZ 104.1 LA Monroe, EZL mx  
 0810 KIXY 94.7 TX San Angelo, top-40, cont...

8/25 tr  
 0819 WLIN 95.5 MS Jackson, EZ  
 0843 WITZ 96.9 LA Alexandria, s  
 8/25 tr  
 0945 WKYV 104.1 MS Vicksburg, k

I find FM DXing is exciting that so far almost no 2 openings seem to be exactly the same that I have received. I find signals from stations that I seem to have overlooked from prior openings. So far 1982 has proved a better DX year than 1981. Best regards, 73s

Hank Holbrook, 7211 Chestnut St., Chevy Chase, MD 20815 EDT  
 DXing from our cottage at FAIR HAVEN CLIFFS, MD, overlooking the HERRING & Chesapeake BAYS 15 miles below ANNAPOLIS, MD. Scott 310# FM tuner (from the 60s) but still "perking" like new! And used with this receiver is a Blonder-Tongue FM booster. Antenna is a Finco 10 element single bay FM yagi. CDR antenna (not working and have climbing the roof to rotate the antenna!) Stations logged and reported during our two week vacation in August which was spent at the cottage.

8/2 tr  
 1304 WKYZ 105.5 MD Salisbury, pop mx 60 from 40s & 50s(m style) new station, will be no problem here as only heard when antenna pointed in their direction.  
 8/4 tr  
 2343 WOEL 89.9 MD Elkton, g, ex-88.3 good  
 2024 WRKS 98.7 NY New York, Kiss 200 Radio, topping WMZQ, x-WXLC, r/d  
 8/7 tr  
 0933 WYZZ 92.9 PA Wilkes-Barre, nx, wx  
 8/11 tr  
 1212 WVTF 89.1 VA Roanoke, public radio prog. ex-WVWR WVTF is a service of "Virginia Tech"  
 8/12 MS  
 (Log covered 0651 to 1025)  
 WKYV KN Morehead, area wx and other items hard to copy. 380  
 WUNF FL Pensacola, in & out, sometimes strong, wx, ID, c 855  
 WUTC TN Chattanooga, book offer, phone nos. for Knoxville & Chattanooga 540

Have been tuning since 1959 of FM and this is one of the best meteor shower openings I have ever come across. Also identified but not needed was WKAR on 90.5 about 0630.

Danny Buntin, 1312 N. Skyline, Stillwater, OK 74074 - Aug. 8 to Sept. 7 GDT  
 Equipt: Pioneer TX-9100 tuner, Antennacraft 10 el. up 30 ft., with rotor

7/9 Es (addenda first two dates)  
 1100 KFRN 89.9 CA Anqwin, ID  
 7/27 Es  
 1120 WFCR 88.5 MA Amherst, verified 1400

8/11 tr  
 2205 KLEO 95.3 AR Caukville, AP nx, wx, s/off 200  
 2209 KWKK 102.3 AR Dardanelle, Quick 102  
 2338 KRYK 103.7 AR Little Rock, ID, r 290  
 2341 KZLE 93.1 AR Batesville, ad 305  
 2355 KPXI 100.7 TX Jacksonville, ID, m 310  
 2359 KEZQ 100.3 AR Jacksonville, ID, m 295  
 8/12 tr, cont.  
 0017 KQYO 93.1 TX Tyler, r, ID 290  
 0046 KWEZ 104.1 LA Monroe, ID, m 385  
 0100 KEZT 104.1 IA Ames, nx, ID 460  
 0105 KINZA 103.9 KS Hiawatha, ID, promo 280  
 (Thanks for powerhouse KOFM 104.1 of OK for being off and making possible the above three loggings!)

It was nice getting WFCR QSLed since I wasn't sure I had it narrowed down to them. WFCR replied that nearly every summer they received reports from listeners in distant areas, mostly FL, etc. but never before from OK.  
 If it's not new to the air stations here competing with the DX, it's established stations moving to higher towers. The new enterprising owners of ex-KMMM Muskogee, now KAYI Muskogee-Tulsa took the station off the air all summer and arranged to move the xmtr to the dreded old 1005' Tulsa TV8 tower between Tulsa & Muskogee, enabling the addition of Tulsa to the ID. KAYI signed on Sept. 3 with a robust signal that I was afraid of--close to rock steady days and downright fade proof nights. (now r with a lot of irritating "K-107s") As I resign myself to KAYI's unwelcome presence, they are rather interesting to listen to (while I prepare the column) with commercial free mx and rather frequent mentions of area towns they're "striking" with hits as people call in on the toll free line. "Thanks for the call from Wilburton, which is like on the edge of the universe", the DJ said, in reality only about 80 mi. away, but the most distant town I've heard mentioned. My town, 75m was mentioned at least twice, so I'm not the only one in town impressed with the signal.  
 Totals stand now at 1452, best states: TX 140, FL 111, OK 79, CA 73, MO 72. So much for this month, until next month, 73.

# NORTHERN FM-DX

Ralph Strobel, editor  
2300 E. McGalliard Rd.  
Muncie, Indiana 47303  
Deadline: the 5th

October 1982

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.

MORE SUMMER Es REPORTED, AS WELL AS AN EARLY AUGUST OPENING TO MN WI AND MI.

Joseph Fela - 150 Robert Place - So. Plainfield, NJ 07080

Equipment: Pioneer SX-828 (after 8/13, McIntosh MR-78); Pair of Antennacraft GFM-10s, stacked, with rotor, at 35 feet. All times EDT. New underlined.

7/13 Es

A very late opening extending into 7/14.  
2337 QAAA 94.9 SD Aberdeen, r, "KQ-95"  
2346 KIXX 96.1 SD Watertown, r, "KIX"  
2347 WIZM 93.3 WI LaCrosse, "Z-93,"

local ads

2352 KPAT 97.3 SD Sioux Falls, r  
2354 KKRC 93.5 SD Sioux Falls, promo,  
calling itself KKRC-FM even tho the AM  
is now KIKC per QSL.

2359 KWOA 95.1 MN Worthington, legal ID

7/14 Es continuing

0004 KWIT 90.3 IA Sioux City, promo  
0008 KSMX 92.1 IA Ft. Dodge, ID  
0009 KEEZ 99.1 MN Mankato, ID, r,  
super local WAWZ had just signed-off.

0010 WRBT 104.9 WI Reedsburg, ads,  
mention Sauk County

0018 KSRD 96.9 NE Seward, ID

0052 KIGT 95.1 KS Wichita, r, "T-95"

0100 KBEZ 92.9 OK Tulsa, nx, legal ID

7/14 tr

2200 WDBK 91.5 NJ Blackwood, at s/off

2332 WPBX 91.3 NY Southampton, r,  
mentioning DJ change at midnight, so  
either runs late night or all night.

Is this one really low? Strong.

7/15 tr

2000 WCOD 106.1 MA Hyannis, r, over WBLI  
Been after them for 10 years.

2133 WOTF 93.5 MA Nantucket, "Stardust  
Memories" format. Will go to 96.3 in  
September per verie.

7/20 Es

1840 CKPE 94.9 NS Sydney

Some comments on the MR-78. It certainly is everything I was told it was on selectivity. I can now pull things in regularly next to locals which could only be heard under super conditions before. As an example, I've been trying to hear WDNH 95.3 Honesdale, PA ever since it came on. With local quality signals on 95.1 and 95.5, that's difficult. On the SX-828, No luck - not even with the 95.1 on low power for four days this summer. (95.1 is WZZO). On the MR-78, it's there virtually all the time unless WSBH is knocking it out off the back of the antenna. 100.5, another covered-up frequency, is now WRCH CT there all the time with some WQMS VA as well as WVOR Rochester (at 375 miles) also making it in via scatter very frequently. The only slight problem I have is when I point the antenna right at the two super locals here, WMGQ-98.3 and WAWZ-99.1. I lose the adjacent channels then and also found some strange cross modulation (such as WKRZ-98.5 at 100 miles showing up on 99.7 - I find this very strange especially since the SX-828 couldn't even pull out WKRZ - 98.5 next to WMGQ - 98.3 99% of the time). If the fall tropo are even half decent, there should be some great DX in the next couple months here. 73. (P.S. It was great meeting the members who attended the S.I. Convention). (I agree-RS)

7/20 Es

CKPE ex-CJCB, "Cape Country-95"

1900 CBAF 88.1 PE Charlottetown,

(CBAF-29) CBC French

1900 CBAF 95.9 NS Sydney,

(CBAF-24) CBC French, // to above

1901 CBN? 90.1 NF Millertown, // to CBNM-  
90.3 with Newfoundland wx. Another CBCer on  
89.1, which was // to 90.1 and 90.3 prior  
to 1900 went to CBC news instead.

1903 CBV 95.3 or CBVH? English wx fore-  
cast for Montreal and Quebec City.

Probably CBVM assuming it's on.

1910 unID 92.7 Very strong carrier here,  
completely covering semi-locals WLIR/WOBM

at times. Definately via skip. Some new

100 kw. testing in the Maritimes?

Nothing listed.

7/21 Es

2007 KWCL 96.7 LA Oak Grove, ID

2010 KZZE 95.1 TX Beaumont, r, ex-KALO

2020 KYKSt105.1 TX Lufkin, r, "KIX..."

Local WRFM making things more than a

little difficult (they are also on 105.1)

2033 KOOI 106.5 TX Jacksonville, ID

7/26 Es

0040 WDSF 100.1 NY Woodstock, r,

"The Bulldog of the Hudson Valley"

0055 WPRH 90.5 CT Middlefield, ID after

concert. Rough, as 90.5 has become a grave-  
yard of signals in this area.

8/2 Es

0957 WLRN 91.3 FL Miami, ID

1005 WVEG 92.1 FL La Belle, Mutual news,  
then ID and local nx.

## NORTHERN FM DX

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

OCTOBER 1982

8/1 tr  
0104 KLSE 91.7 MN Rushford, j, ID 365  
0125 WATL 93.7 MN Minneapolis, ID 470  
0128 KJJO 104.1 MN St. Louis Park, 470  
local weather, k, "K-Jo Country"  
0132 KSJN 91.1 MN St. Paul, 470  
local events  
0136 WDUZ 98.5 WI Green Bay, m, wx 275  
0210 WCAL 89.3 MN Northfield, s/off 455

8/1 Es  
1638 KEXX 93.9 TX Corpus Christi, 1150  
"The S. TX music connection-KEXX-FM"

8/5 tr  
1654 WIMK 93.1 MI Iron Mountain, 360  
k, ID  
1715 WDFP 95.3 MI Battle Creek, 90  
g, weather  
1719 WRVM 102.7 WI Suring, local ad 300  
g, call letters  
1734 WKJF 92.9 MI Cadillac, ID 225  
1735 WHMI 93.5 MI Howell, r, calls 170  
1901 WJNR 101.5 MI Iron Mountain, 360  
r, ID  
1931 WCSI 98.3 MI South Haven, ID 100  
2000 WJPD 92.3 MI Ishpeming, k, ID 390  
2018 WRHW 107.9 WI Rhinelander, 370  
m, local ads  
2200 WIMI 99.7 MI Ironwood, r, ID 440  
2328 WHWC 88.3 WI Menomonee, 410  
j, local ID

8/6 tr  
0000 CBN 88.1 ON Sault Ste. Marie, 380  
CBC French Net., Calls heard at s/off  
0038 WKAU 104.9 WI Kaukauna, 265  
r, call letters  
0046 WROE 94.3 WI Neenah, m, 260  
"A part of your life...Row-WROE"  
0619 WMMU 90.1 MI Marquette, 390  
local weather

1448 WIFC 95.5 WI Wausau, r, 340  
call letters, local ads  
1958 WWRW 103.3 WI Wisconsin Rapids, 335  
ID  
2045 WWIB 103.7 WI Ladysmith, g, ID 420  
(Peaking o/WEZW for about 10 min.)  
2058 WLST 95.1 WI Marinette, r, ID, 300  
(Over local WFQQ)

2159 WAPL 105.7 WI Appleton, r, ID, 260  
"Apple-106"  
2205 WTTN 94.1 WI Watertown, s/off 220  
2232 WGBW 91.5 WI Green Bay, 275  
s, call letters

2301 WMSE 91.7 WI Milwaukee, ID, 190  
"Milwaukee's Alternative Source"  
2306 WORT 89.9 WI Madison, ID, 240  
ex-89.7, New frequency  
2350 WARC 96.7 WI Oshkosh, r, ID 255  
2359 WDUX 92.7 WI Waupaca, r, s/off 300

8/7 tr  
0004 CBN 88.1 ON Sault Ste. Marie, 380  
sign off, "R. Canada..N. ON"  
0116 WERG 89.9 PA Erie, 280  
s, program promo  
0129 WRUW 91.1 OH Cleveland, r, ID 185  
0133 WDOK 102.1 OH Cleveland, m, 185  
local weather, call letters

0201 WBSW 100.1 WI Sturgeon Bay, 280  
rm, ID  
0231 WAAQ 102.3 MI Big Rapids, mr, ID 180  
0300 WRCT 93.5 MI Midland, r, ID 185  
0300 WGFY 95.3 MI Clare, r, ID 190

8/13 tr  
2319 WSM 95.5 TN Nashville, r, 340  
"Nashville's Music FM...SM-95," o/WFMS  
2324 WKDF 103.3 TN Nashville, r, 340  
"103-KDF," o/WXTZ

8/5 tr  
1541 WRLO 105.3 WI Antigo, r, 340  
local ads, call letters  
1628 WDEZ 101.9 WI Wausau, k, 340  
weather, call letters  
1633 WGLQ 97.1 MI Escanaba, r, 340  
"97-GLQ," local ads  
1642 WKHQ 105.9 MI Charlevoix, r, 300  
local ads

(Time is CDT)

(Time is CDT)

(Time is CDT)

(Time is CDT)



\*\*\*\*\*

- Remarks Continued -

This month's highlight was a very intense opening into North Wisconsin and Upper Michigan. This lasted for about three days and produced 32 new loggings including some rare class A's. During this period R. Strobel and I were both receiving a phantom station on 104.3 (presumably Sault Ste. Marie, Ontario). This station would fade in a little past midnight with music ranging from popular to semi-classical to jazz, but absolutely no announcing. Station CJQM 104.3 is listed in FM Atlas as a progressive rock station, which certainly doesn't correspond to what we were hearing. Does anyone know anything about this station? (It sounded as if someone put on a tape that was at least 10,000 feet long and went home for some sleep!-RS) All told, this has been the most productive summer I have ever seen for DX. Since June 1, I have had 130 new loggings. Hope the rest of you have fared as well.

Till next month, Bob

\*\*\*\*\*

Andy Bolin - 709 Lincoln - Charleston, IL 61920

A single old Probe 9 at 40 feet and Belden 8275 line are still feeding my homemade receiver system.

7/2 Es @1000 KOB 93.3 Albuquerque NM (1070); 1100 KSOJ (xKCTB) 93.9 Flagstaff AZ (1310). 7/8 Es @1000 KTAQ WY & WFYN FL. @1210 WKII "Best Country" 93.5 w/mono K/AM siml - Bay Springs MS (530); @1230 finally WWOZ 90.7 mono/jazz/ID New Orleans LA (670); MUF was WHER 103.7 Hattiesburg MS (580). Later 1400-1435 from GA was WJIZ & from FL was WMCU, WTM1, WOVV, WDBO, WHOO, W-SHE, WAXY & WIRK. 7/11 @1900 CBAF-26 w/mono CBC french 88.5 Lutz Mountain (near Moncton) NB (1295); 1903 CBV \$/ID/french 95.3 Quebec PQ (995); @1912 2Es CHOZ "OZ FM Network" w/contests/pro-mos \$ 93.9 St. John's NF (1890); 2000 WKTR mono K/AM-FM ID 97.7 Millinocket ME (1090). Relogs were from ME & NH WHOM, WHSN, WPBC, WKXA, WTOS, WABK & WWMC. @2100 KPQX & KGCH both MT plus CJGL Swift Current SA (1225). 7/13 Es @1050 KSUB 92.5 Cedar City UT (1345). Later after 1830 INTENSE Au from mostly KC & Des Moines and @1900 KEBC NBC nx/ID 94.7 Oklahoma City OK (590). @2300 Es CFMO 93.9 Ottawa ON (750); 2325-2355 more Es from WGBH, WRSU and NYC w/a MUF of WCBX 101.1. 7/14 Es (cont.) 0000-0015 KGNU & KCFR both CO. 7/18 Es 1755-1955 from TX, NM, & AZ were KPJH, K-BAT, K-LYT, KIPG, KOB, KZZK, KFMG, KFZB & KDKB. 7/20 Es 1605-1845. @1630 C?? w/20 local Charlotte-town ads/traffic reports & wx - heavy "Q-93" slogan - even on the hour this new station IDed only w/a "Q-93" jingle 93.1 \$ K Charlottetown PEI (1375); 1700 CBAF-29 mono CBC french 88.1 was Moncton NB now Bonshaw PEI (1375). Relogs were CBH, C-100, WTMS, WKTR, WHOM & WWMC. Later @0059 KPQX 92.5 MT. 7/21 Es @1908 WVBD \$ pro-mos 92.7 Bamberg-Denmark SC (585); 1934 the new WKGL \$G 91.5 Ladson SC (635); @1938 my closest ever Es logging WFBC "94-FM" \$/R/WFBC jingle 93.7 Greenville SC (450). 7/22 Es 1830-1855 KKRC xKRAI Craig CO. 7/24 Tr @1806 KPIL \$/K/jingles 103.1 Preston MN (355); Also in was KEZO Omaha and KEXL Norfolk NE (495). Then 1905-1955 Es (TX) KQIZ, KATX, K-BAT, KPAS (NM) K-LYT, KOB, KHFM, KFMG, KENW & mono not \$ from KRWN. More Tr @2000 KESI \$G 88.5 Rochester MN (385); 2130 KROA 95.7 Grand Island NE (550). 7/27 Es 1130-1205 (CT & RI) WY2Z, WPKN, WLVB, WHJY & WSOX. 8/1 Es @1637 KSEJ \$/G/jingles 88.1 Humble TX (780); 1700 XHNP (tentative until I get the tape translated) 89.3 Puebla PUE (approx. 1600); 1715 XEEW w/rock/live DJ/ & it is \$ but their \$ pilot is w-a-y off frequency 97.7 Matamoros TAM (1105); 1722 KBIU "104" \$R 103.7 Lake Charles LA (710). Es lasted till 1805 w/relogs KUHF, KYND, KRLY, KFMK, KLOL, KTXN, K-VLY, KIWW, K-DUV, KRIX, KWIC, KYKR, KGOL, XHKL, XHSRO, XET & XHJD. 8/2 Tr @0115 WBEW 102.5 Buffalo NY (540). 8/11 Es 2235-2250 KOPR & KQUY both Butte MT (1310); @2343 KGCH 93.1 Sidney MT (990). 8/13 Tr WENN & WQ-EZ both Birmingham from 1800-0000. Also in @2200 WVCP was 88.3 now 88.5 Gallatin TN.

\*\*\*\*\*

Robert Goodman - 2030 Hering Ave. - Bronx, NY 10461

Single logging constitutes my FM DX for the past few months:

7/11 Es 2102 CITI 92.1 MB Winnipeg, "92-City-FM" 1275  
73, Robert

\*\*\*\*\*

Robert S. Ross - VE3JC - Box 4373, Stn. C - London, ON N5W 5J2

Equipment: Panasonic RF-1115 & Marantz 2226 w/Beam four element and whip antenna.

7/13 tr	0510	WBTF	101.7	NY Attica	150	7/14 tr	0223	CJOM	88.7	ON Windsor	120
7/14 tr	0208	WGRQ	96.9	NY Buffalo	130		0230	WHBC	94.1	OH Canton	160
	0215	WJYE	96.1	NY Buffalo	130		0232	WDBN	94.9	OH Medina	120
	0220	WFSE	88.9	PA Edinboro	100		0251	WKDD	96.5	OH Akron	130
				(Time is EDT)			0255	CKJY	93.9	ON Windsor	120

\*\*\*\*\*

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

The first part of this report is from Duluth/Adolph MN, where I DXed from my in-law's house in Hermantown (of which Adolph is a dependency), and from my mother's near downtown Duluth.

July 19-24 allowed me to pick up many new nearby stations - WISQ 100.1 West Salem WI, WSBW 100.1 Sturgeon Bay WI (both easily receivable by rotating the antenna at my mother's house either S. or SE.), KJKK 96.5 Fergus Falls MN, WOJB \*88.9 Hayward WI, and WBAW 105.9 Washburn-Bayfield WI, which carries the Larry King Show from Mutual--one of the few FMs known to do so. The best catch was WLXR 104.9 La Crosse, next to local WGRR 105.1 in frequency. WLXR proved to be quite a regular, and heard on a not-too-selective Sony ST-5130, but receivable now that WRLO Antigo WI has shifted from 104.9 to 105.3. I prefer the Duluth area for tropo, even though there are more local and semi-local stations, and the Kearney NE area for skip.

The second part of this report is from Kearney NE: 5/16 Es 1930-2101: KQEZ 103.9 Coolidge AZ, KFMG 107.9 Albuquerque NM, KPRI 106.5 San Diego CA, KNPR \*89.5 Las Vegas NV, "Serving the Truckee (or Trucking?) Meadows," KPFK \*90.7 Los Angeles CA, my first (and only) L.A. station; KOMP 92.3 Las Vegas NV, KILA 95.5 Henderson NV, mono, second time in 2 years heard mono, so am dropping \$ designation for KILA and its translators; K221AR 92.1 Hawthorne NV, as strong as primary, KKBC 97.3 Carson City. 5/23 GW area stations: KCKS 95.3 Concordia KS, KTLX \*91.9 Columbus NE, now believed to be 100w h & v; on Sundays 8:25 a.m. to 6 p.m.; Tuesdays and Thursdays 6:15 p.m. to 10 p.m., mono, all taped programs (mostly G), seemingly no turntable in use for playing records. 5/24 Es at 1800: WCRH \*90.5 Williamsport MD. 6/6 Es 1856-2100: KNCN 101.3 with full legal ID mentioning "Sinton-Taft-Corpus Christi." KKED \*90.3 Corpus Christi TX, KMCR \*91.5 Phoenix AZ, KODK 92.7 Kingsville TX, KVMV 96.9 McAllen TX, now \$, no Spanish heard, KVLV 107.9 Edinburg TX, KBIC 102.3 "Alice's Pick," TX, KSOX-FM 101.7 Raymondville TX, a miserable-sounding mono station, KDUV 100.3 Brownsville TX, XETRA-FM 91.1 Tijuana BC, Mexico at 2055, with ad for 7-Eleven, and then full Spanish ID: "XETRA-FM, Baja California, Meh-i-ko," XHRM 92.5 Tijuana BC, Mexico at 2100, with English jazz show and pause for this in Spanish: "XHRM Tijuana, Baja California, Meh-i-ko." I have both of above on tape. 6/7 Es 1732-1905: WOEL \*88.9 Elkton MD, WJRX 100.1 Manahawkin NJ, WSN1 104.5 Philadelphia PA, WDAC 94.5 Lancaster PA, WKSL 94.3 "Greencastle-Waynesboro PA," WKNC \*88.1 Raleigh NC, WLXN 94.1 Lexington NC, asking people what they would like to hear during the nighttime religious block of programming; WJLK-FM 94.3 Asbury Park NJ, WRUR \*88.5 Rochester NY, a fine skip signal, despite its apparently still being 830 watts; WHYC \*88.5 Swan Quarter NC, mono. 6/15 Es 1630-1822: WBKY \*91.3 Lexington KY, WHPE 95.5 High Point NC, WFMA 100.7 Rocky Mount NC, WUNC \*91.5 Chapel Hill NC, and WNGC 95.5 Athens GA. 6/26 Es 1259-1315: WRRB 107.9 Syracuse NY, WHHR 102.9 Syracuse NY, CBCK 107.5 Kingston ON, taped with full legal ID at 1305 (although I edited out the ID for CBCK Cornwall, since I was not on 95.5). 7/1 a non-skip or non-tropo day: KCHA 106.1 Owasso OK, received with great difficulty when local KRQY was off the air, tr at 1034: KPAN-FM 106.3 Hereford TX. 7/27 Es 1103-1209: WKGL 92.7 Middletown NY, full ID and "92-K," WJMJ \*88.9 Hartford CT, with SCA reading from the Hartford Courant, WSBS 96.1 Worcester MA, with no SCA, WVOR 100.5 Rochester NY. 8/8 Es 2145-2411: (This skip first noticed while experimenting on a vintage tube Zenith FM-AM table radio using its line-cord antenna in the basement). KPQ-FM 102.1 Wenatchee WA, KFAE \*89.1 Richland WA, identifying with KWSU (AM) Pullman and KFAE "Tri-Cities" (no mention of "Richland"). KUEZ 104.1 Yakima WA, then tropo: KUAD 99.1 Windsor CO, with local KRNK-FM 98.9 off, KRQY Pueblo CO (KRNK off air).

Other DX includes area stations KROA \*95.7 Grand Island NE (reducing from 24 hours to 6 am-midnight, effective Sept. 1, 1982), KTTL 93.9 Dodge City KS, new KNPN 103.5 North Platte NE with satellite "k" music in \$, new KKSD 101.5 Gregory SD with \$, k; KGOR 99.9 Omaha NE, KZOC 92.7 Osage City KS, KFMW 107.9 Waterloo IA, KICD-FM 107.7 Spencer IA, KLNR-FM Lamar CO, KR5W \*91.7 Worthington-Marshall MN, KUNC \*91.5 Greeley CO, KCOL-FM 107.9 Fort Collins CO. On Aug. 22 I picked up KCEW 92.1 Sedalia MO, and KDSU \*91.9 Fargo ND, for my first ND station; KDSU mentioning now 100,000 watts "your jazz station," which makes me wonder if they have dropped their former classical programming. With KDSU I have now heard all states west of the Mississippi from Kearney--40 states + DC in all, plus Canada and Mexico. The best tropo to date from Kearney was Aug. 25 from 2300-2338 when I picked up KOBC \*90.7 Joplin MO and WDYN \*89.7 Chattanooga, plus previously - received (by skip) WMBW \*88.9, still mono, Chattanooga TN, at a distance of 1400 km. I have removed the double stacking from my Antennacraft antennae, and the results are much better. I think the stacking harnesses are too short, and others, like Joe Fela, using stacked Antennacraft arrays might do well to go single stacked and sell the extra antenna, as I did.

- Continued -

The FCC after five months, answered my letter in which I reported the operation of my "beam" translator, and said it is illegal, and unless I take it off the air I would be subject to a fine. They suggested I apply for a regular translator. So my "Beam" is off the air, although I have written for forms to operate experimentally.

\*\*\*\*\*

Eric Fader - 23-35 Bell Blvd. - Bayside, NY 11360
Equipment: Technics SA-202, w/rabbit ears, GE Superadio.

7/3 GW
0112 KSUN 91.5 NY NYC area, "KSUN, Pirate-91.5, the radio station that speaks your language." Mono, strong
7/6 tr
2300 All Boston area regulars, including 93.3, 98.1, and 99.1.
2330 WCTY 97.7 CT Norwich, "C-T-Y," "Country Lovin'"
7/7 tr
0015 WNBR 100.7 NJ Wildwood, used to be rare
0023 WSEA 93.5 DE Georgetown
7/14 tr
2255 WFAN 102.3 CT Stonington
7/15 tr
0129 WCGY 93.7 MA Lawrence, "FM-94," rare
0805 WKZE 104.7 MA Orleans

7/21 Es
2015 KROK 94.5 LA Shreveport
7/22 tr
2301 WVIA 88.9 PA Scranton, WKCR off
8/8 tr
2100 Mass. area
8/23 tr
All Empire State Building stations off, except WRKS-98.7.
0134 WPRO 92.3 RI Providence
0150 WPJB 105.1 RI Providence
0205 WJBR 99.5 DE Wilmington
8/28 tr
0101 WCHC 89.1 MA Worcester, between WNYU s/off 0100 & WFUD s/on 0115. Must be more than 10 watts now. ABC nx, big-band mx, Holy Cross mentions. That's all. Waiting for big coastal tr in Sept. 73, Eric

\*\*\*\*\*

Dave Nieman - 12284 Nice Rd. - Akron, NY 14001
Equip.: Sansui G-8000; C/M 3 Probe 9 at 57 ft.
(\*ID on tape)

7/27 Es
0900 ZBM 89.1 BM Hamilton, r 1000
1208 KSDB 88.1 KS Manhattan, pr 970
1230 KCNT\* 88.1 NE Hastings, r 1025
1302 KVNQ\* 90.7 NE Omaha, c 890
1310 KIWR\* 89.7 IA Council Bluffs, c 885
1333 KBCM 95.5 IA Sioux City, k 880
7/29 GW, Es & tr
1845 WNYT\*104.1 NY Buffalo, r ex-WACJ 20
2106 KTXT\* 88.1 TX Lubbock, s 1395
2130 WBNI\* 89.1 IN Fort Wayne, j 365
2151 KKED 90.3 TX Corpus Christi, c 1465
8/4 tr
2245 WLPX\* 97.3 WI Milwaukee, pr 450
8/5 tr
0001 WNMU\* 90.1 MI Marquette, s, s/off 495
0006 WJPD\* 92.3 MI Ishpeming, k, s/off 500
0020 WTCM 103.5 MI Traverse City, k 375
0058 WCCO\*102.9 MN Minneapolis, r 725
0102 WLOO\*100.3 IL Chicago, m 455
0122 WIXX\*101.1 WI Green Bay, r 490
0128 WDEZ\*101.9 WI Wausau, k 550
0141 WIFC\* 95.5 WI Wausau, r 550
0159 KSTP\* 94.5 MN St. Paul, r 720
0205 WJTB\* 88.9 WI Hayward, pr-e, s/off 655
0239 WJNR\*101.5 MI Iron Mountain, r, (ERP 50KW) 500
0300 WCCW\* 92.1 MI Traverse City, r 375

8/5 tr
1000 WPNE\* 89.3 WI Green Bay, c 490
1015 WUWM\* 89.7 WI Milwaukee, c 450
1027 WUVE 94.9 WI Baraboo, m 545
1356 WFMR\* 96.5 WI Milwaukee, c 450
1459 WRVM\*102.7 WI Suring, g 515
1501 WOJC\*105.1 IL Evanston, SS 455
8/6 tr
1130 WCOW\* 97.1 WI Sparta, k, (ERP LOOKW) 610
1257 WHLA 90.3 WI LaCrosse, c, prev. Au 620
1300 KLSE\* 91.7 MN Rushford, c 645
8/7 tr
1024 WMKC\*102.9 MI St. Ignace, k 360
2300 GBEP\*103.1 ON Leamington, 220 (CBEF-1), FF
8/11 Es
2120 KDSU\* 91.9 ND Fargo, j 925
2230 KCFR 90.1 CO Denver, c 1375
2242 KCME 88.1 CO Manitou Springs, c 1380
8/12 tr
0224 WSNI 104.5 PA Philadelphia, r, CHUM off 275
0243 WQQQ\* 99.9 PA Easton, m, CKFM off 225
0302 CFLG\*104.5 ON Cornwall, m 240
8/15 tr
2218 WCPZ\*102.7 OH Sandusky, r 230
8/16 tr
0900 WKLR\* 99.9 OH Toledo, k, "K-100," o/CKFM 250

Dave

\*\*\*\*\*

Saul Chernos - 79 Ridge Drive - Toronto, ON M4T 1B6
(All DX from Burnt River, ON, 80 air miles NE of Toronto)

7/21 tr
0659 WQED 89.3 PA Pittsburgh 310
2015 WSRD 101.1 OH Youngstown 275
2032 WRRN 92.3 PA Warren 195
2128 WKSU 89.7 OH Kent 290
2131 WCVJ 90.9 OH Jefferson 255
2158 WIQB 102.9 MI Ann Arbor 315
2209 WDMT 107.9 OH Cleveland 280
2238 WGCL 98.5 OH Cleveland 280
2240 WNCQ 97.5 NY Watertown 150
7/21 Es
1832 WFCS 89.3 FL Pensacola 1120
2010 WBRM 90.3 AL Birmingham 910
2025 WPAP 92.5 FL Panama City 1105
2028 WNOE 101.1 LA New Orleans 1225
2130 WQST 92.5 MS Forest 1060
2132 KTSU 90.9 TX Houston 1410
2140 WWOZ 90.7 LA New Orleans 1225
2142 WCKW 92.3 LA Laplace 1235
2148 KIKK 95.7 TX Houston 1410
2204 WGUF 96.7 MS Gulfport 1170
2208 WNSL 100.3 MS Laurel 1085
2210 WEZB 97.1 LA New Orleans 1225
2214 WENO 99.5 LA New Orleans 1225
2215 KCTO 103.1 LA Columbia 1155
2233 WOKK 97.1 MS Meridian 1035
2252 WNOO 89.9 LA New Orleans 1225
2254 WYSU 88.5 OH Youngstown 275
7/22 tr
0021 WZAK 93.1 OH Cleveland, no CHAY280
0028 WAEB 97.5 OH Akron 295
0043 WDRQ 93.1 MI Detroit 280
7/23 tr
2115 WRSU 89.7 OH Kent 290
2118 WJML 98.9 MI Petoskey 320
2129 CJQM 104.3 ON Sault Ste. Marie 310
7/24 tr
2213 WLEN 103.9 MI Adrian 345
2215 WQAL 104.1 OH Cleveland 280
2221 WIAA 88.3 MI Interlochen 365
2225 WMJC 94.7 MI Birmingham 275
7/25 tr
0907 WNNN 96.1 MI Bay City 280
1000 WKAR 90.5 MI East Lansing 330
1001 WMBI 90.1 IL Chicago 500
1220 CBON 104.9 ON Goyana, (-21) 350
1501 WTCM 103.5 MI Traverse City 350
1508 WMKC 102.9 MI St. Ignace 315
1536 WPNE 89.3 WI Green Bay 475
1559 WEMU 89.1 MI Ypsilanti 310
1659 WDTR 90.9 MI Detroit 280
1730 WVGR 104.1 MI Grand Rapids 380
1815 WKJC 103.9 MI Tawas City 250
7/25 ms
1415 KBKX 102.9 NE O'Neill 1040
7/26 Es
1645 KEND 92.5 TX Pasadena 1410
1655 KSBJ 88.1 TX Humble 1395
1656 KFKE 92.3 AR Pine Bluff 1040
1658 KMBQ 93.7 LA Shreveport 1190
1659 KR0K 94.5 LA Shreveport 1190
1700 KIPR 95.5 TX Diboll 1305
1702 KASU 91.9 AR Jonesboro 900
1703 KRMD 101.1 LA Shreveport 1190
1704 KKDI 102.3 AR Sheridan 1050
1710 KAFM 92.5 TX Dallas 1305
1715 KABK 97.7 AR Augusta 965

7/26 Es
1720 KJOJ 106.9 TX Conroe 1395
1721 KOSY 102.5 AR Texarkana 1160
1722 KSSN 95.7 AR Little Rock 1020
1723 KPYN 99.3 TX Atlanta 1180
1728 KNUB 101.5 TX Tyler 1270
1729 KKYK 103.7 AR Little Rock 1020
1730 KR0Z 92.1 TX Tyler 1270
1740 WSSL 100.5 SC Laurens 750
1741 WRR 101.1 TX Dallas 1305
7/28 ms
0003 WSGS 101.1 KY Hazard 585
0620 KNUZ 101.1 MO Carrollton 865
2010 KOKI 101.1 NE Columbus 995
7/29 ms
0711 WGLD 100.3 NC High Point 650
8/2 tr
2036 WNYT 104.1 NY Buffalo, r, ex-WACJ 125
8/3 tr
0627 WKJC 103.9 MI Tawas City 250
0657 WKRQ 105.9 MI Charlevoix, CBCO off 1170
0704 WOPR 90.3 MI Oak Park 1085
1225 WSEN 92.1 NY Baldwinsville 155
1225 WBSU 88.9 NY Brockport 100
1155 WGMG 90.1 NY Greece 115
1035 WGSU 89.3 NY Genesee 135
1225 WAMC 90.3 NY Albany 290
1759 WVPW 90.9 WV Morgantown 370
1800 WQED 89.3 PA Pittsburgh 310
1908 WDUQ 90.5 PA Pittsburgh 310
2030 WMHT 89.1 NY Schenectady 275
2032 WRUR 88.5 NY Rochester 120
8/4 ms
0708 KXCV 90.5 MO Maryville 895
8/4 tr
1800 WTAA 88.3 MI Interlochen 365
1805 WZEE 104.1 WI Madison 560
1807 WTCM 103.5 MI Traverse City 350
280 1810 WIXX 101.1 WI Green Bay 475
365 1811 WBIZ 100.7 WI Eau Claire 650
275 1815 WIFC 95.5 WI Wausau 550
1827 WLOM 102.1 WI Milwaukee 490
1828 WSPF 97.9 WI Stevens Point 555
330 1829 WHAD 90.7 WI Delafield 330
1830 WNMU 90.1 MI Marquette 455
1838 WWSW 89.9 WI Stevens Point 555
350 1858 WPNE 89.3 WI Green Bay 475
315 1934 KQDS 94.9 MN Duluth 685
475 1935 WKJP 92.9 MI Cadillac 475
310 1940 WJFM 93.7 MI Grand Rapids 380
280 1941 WIMK 93.1 MI Iron Mountain 475
380 (CHAY off. What timing!)
1942 WDOR 93.9 WI Sturgeon Bay 380
1949 WAXY 104.5 WI Eau Claire 650
1950 CJQM 104.3 ON Sault Ste. Marie 310
1951 KROC 106.9 MN Rochester 700
1954 WJPD 92.3 MI Ishpeming 470
1955 WJMC 96.3 WI Rice Lake 660
1040 1956 WJML 98.9 MI Petoskey 320
1190 2026 WPNW 104.7 MI Escanaba 430
1190 2027 KSTP 94.5 MN St. Paul 725
1305 2029 WJNR 101.5 MI Iron Mountain 475
900 2030 WGLQ 97.1 MI Escanaba 430
1190 2031 WNNC 102.5 WI Madison 560
1050 2033 WLPX 97.3 WI Milwaukee 490
1305 2035 WLOL 99.5 MN Minneapolis 740
965 2125 KEEY 102.1 MN St. Paul 725

- Continued -

8/4 tr		8/5 tr	
2134 WLJY 106.5 WI Marshfield		2229 WVPE 88.1 IN Elkhart	435
2152 WCCY 99.5 IL Quincy	750	2230 WBNH 89.1 IN Ft. Wayne	425
2156 WFRM 106.7 MI Gaylord	300	2245 WIOT 104.7 OH Toledo	325
2158 WMIX 94.1 IL Mount Vernon	700	2355 WMEB 97.3 IN Ft. Wayne	425
2200 WKAR 90.5 MI East Lansing	330	8/6 tr	
2225 KYSH 103.5 MN Mankato	780	0030 WAEZ 97.5 OH Akron	295
2238 WRKR 100.7 WI Racine	490	0106 WPMK 99.1 MI East Lansing	330
2240 WWRW 103.3 WI Wisconsin Rapids	565	0115 WNGO 101.3 OH Ashland	335
2255 WOJB 88.9 WI Hayward		1800 WCSB 89.3 OH Cleveland	280
(A quick nap to restore the sanity)		2300 WBCS 102.9 WI Milwaukee	490
8/5 tr		2328 WNMU 90.1 MI Marquette	455
0200 WIBM 94.1 MI Jackson	345	8/7 Au	
0223 KQRS 92.5 MN Golden Valley		0130 WMBI 90.1 IL Chicago	500
0228 WDUZ 98.5 WI Green Bay	475	0136 WXLK 92.3 VA Roanoke	535
0230 KDWB 101.3 MN Richfield		0141 WRVQ 94.5 VA Richmond	520
0235 WCCO 102.9 MN Minneapolis	740	0142 WPFW 89.3 DC Washington	420
0240 WHYY 99.1 WI Milwaukee	490	0200 WNCI 97.9 OH Columbus	385
0302 WFMR 96.5 WI Milwaukee	490	0214 WKKW 104.1 PA Allentown	335
0330 WMBI 90.1 IL Chicago	500	0216 WDRG 102.9 CT Hartford	370
0356 KSLQ 98.1 MO St. Louis	745	0229 WEEB 100.7 OH Springfield	435
0431 WMHE 92.5 OH Toledo	325	8/7 tr	
0434 WKTI 94.5 WI Milwaukee	490	0030 WRVM 102.7 WI Suring	
1700 WSAE 89.3 MI Spring Arbor		1016 CBEE 95.1 ON Chatham	245
1704 WFCM 103.5 MI Traverse City	350	1018 WDBN 94.9 OH Medina	
1740 WMHE 92.5 OH Toledo	325	1025 WNMU 90.1 MI Marquette	455
1752 WJFM 93.7 MI Grand Rapids	380	1027 WBCL 90.3 IN Ft. Wayne	425
1755 WZZR 95.7 MI Grand Rapids	380	1028 WOSE 94.5 OH Port Clinton	
1757 WLAB 96.9 MI Grand Rapids	380	1030 WABX 99.5 MI Detroit	280
2105 WCSB 89.3 OH Cleveland	280	1031 WFSE 88.9 PA Edinboro	
2135 WFSE 88.9 PA Edinboro		2127 WIOT 104.7 OH Toledo	325
2200 WBCL 90.3 IN Ft. Wayne	425	2129 WMHE 92.5 OH Toledo	325
2216 WAUS 90.7 MI Barrien Springs	475	2130 WBSU 88.9 NY Brockport	100

What a long and strange trip it's been! The mixed bag of 7/21 was a gas...when an ID came around, it could be from a station 250 miles away or 1000 miles away. CHAY 93.1, a pest here, went off twice in this reporting period, and CBGO 105.9 even shut its carrier off once. On 8/3, Oak Park, MI WOPR 90.3 is my first 10 watter.. unless there's been a change. Bruce Elving...I finally got WRUR here and it took an actual opening to get them. And, yes, the moment I've been waiting for..8/4-5 had the best tr I ever noted. Best was 103.3 KYSM Mankato, MN at 780 miles. CHAY chose this evening to have xmtr birdies so I got a station on 93.1 too! I also think I had Yankton, SD (would be 965 miles) on 100.3 as I had mentions of the Dakotas in some way or another in an add. Of course, I won't count it. Locally, 104.1 WACJ NY now rock, WNYS (not Nice-104 yet). WTWR 92.3 MI now country and WCXI. 8/7 gave me my 3rd best Au opening. So far on a scale of 1-10 (1 being poor, 10 being great), I rate the season here thus: Auroral 7, tropo 7, meteor scatter 5, E-skip (Quantity 4, Quality 8) overall 6. May August be the month of the great ducts! 73's, Saul

+++++

Michael L. Hogan - 13910 Chippewa Avenue - Apt. #1 - Burnham, IL 60633  
Equipment: GE Superadio, Panasonic RF-1115 & 2600, Magnavox 1143 w/Radio Shack Stereo Supreme Indoor 'ears.'

6/7 Es 1800 WLWH 93.7 CT Hartford, w/Spanish Lang. Prgm.  
8/6 tr 2305 WITL 100.7 MI Lansing, \$20 reward for newstips

In this location of powerful locals and lack of outdoor antenna, area hinders any hopes of hearing many more stations above the #300 mark. It's been great to see the support this column and the VUD is getting from club membership. Let's all keep an active interest in WTFDA. 73's Mike

+++++

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

There is no doubt in my mind that I packed up both NB & PEI on July 24. Both before and after the hour the programming was parallel. The wife was after me at the time to go, as we were late for a retirement party of a friend. I said, as she has heard so often in 25 years, wait a few moments and see if I can catch an ID. Luckily, I hung around! Since these are real rare catches, I am trying the verification route.

- Continues on -

I don't have a hell of a lot of hope that I will get a reply, but will try a few times anyway. Wish me luck. (I do hope they reply!-RS) If I didn't have the input and translation from Dr. Richard Wood, I would not even try for a verification.

7/26 Es (From Bloomington, MN)	8/1 Es (From Prosit, MN)
2000 KSBJ 88.1 TX Humble	1900 WUVF 88.1 FL Pensacola
2045 KDEA 99.1 LA New Iberia	1904 WRNO 99.5 LA New Orleans
2100 WAFB 98.1 LA Baton Rouge	1931 KJNA 99.3 LA Jena
8/11 Es	1937 WQUE 93.3 LA New Orleans
2003 WDSC 92.9 SC Dillon, s/off + SCA	8/2 tr
(faded out just as they were to say who leased their SCA channel)	0900 KQYB 98.3 MN Spring Grove
8/6 tr	
7/24 Es (From Prosit, MN)	2200 WSJY 107.3 WI Fort Atkinson
1500 CBAF 88.1 PE Charlottetown, (-29)	8/16 tr
1500 CBAF 88.5 NB Moncton, (-26)	1330 KBTO 101.9 ND Bottineau, + SCA
(Time is CDT)	1417 KJJK 96.5 MN Fergus Falls, "K-Jack 96"

+++++

William R. Hepburn - A.E.S. Weather Station - Eureka, N.W.T., XPA 060

Here is my FM-DX report for July. Some tr and Es was noted but nothing exceptional. Not logged below is common reception of WEIV 103.7 NY (200 mi.) from Cornwall. I've been stationed to Eureka N.W.T., so the content of my next FM-DX report may be a bit less than usual.

7/1 tr (From Cornwall, ON)	7/14 tr
1555 WHEB 100.3 NH Portsmouth	230 1617 WKFM 98.9 NY Rochester
1607 WTOS 105.1 ME Skowhegan	260 2313 WGBI 101.3 PA Scranton
7/3 tr	2324 WMJQ 92.5 NY Rochester
1055 WTOS 105.1 ME Skowhegan	260 2335 WYRK 106.5 NY Buffalo
1204 WPEL 96.5 PA Montrose	225 7/24 Es
1209 CBF 96.5 PQ Victoriaville, (CBF-12), FF, //CBF-AM	0036 KHLE 96.3 AR Blytheville
1815 WHOM 94.9 NH Mount Washington	175 0042 WMC t 99.7 TN Memphis, "FM-100"
7/4 tr	0047 MUF 102.1 MHz
2207 WGAN 102.9 ME Portland	230 0051 WJMI 99.7 MS Jackson
2217 WHEB 100.3 NH Portsmouth	230 0058 Rapid Es f/out to nil.
2225 WQBK 103.9 NY Rensselaer	170 7/15 tr
7/11 tr	0100 CBGOT 96.7 ON Pembroke, (CBGO-52), //CBL-AM, on air yet?
2322 WHEB 100.3 NH Portsmouth	230 0109 WJYE 96.1 NY Buffalo
7/12 tr	0111 WMRV 105.7 NY Endicott
0029 WAAL 99.1 NY Binghamton	205 0114 CKFM 99.9 ON Toronto
2126 WKCU 97.3 NY Ithaca	200 0118 WKCU 97.3 NY Ithaca
2138 WLEW 96.1 PA Easton	300 7/16 tr
2213 WYLF 95.1 NY Bristol Center	200 0734 WSKG 89.3 NY Binghamton
2334 WMRV 105.7 NY Endicott	205 1745 WHCU 97.3 NY Ithaca
7/13 tr	1759 WBUR 90.9 MA Boston
0003 CKFM 99.9 ON Toronto	250 7/22 tr (From Niagara Falls, ON)
0018 WAAL 99.1 NY Binghamton	205 0131 WHUG 105.9 NY Jamestown
0028 WEZG 100.9 NY North Syracuse	145 0137 WYFM 102.9 PA Sharon
1945 CILQ 107.1 ON Toronto, "Q-107"	250 0201 CKJY 93.9 ON Windsor
2017 WTOS 105.1 ME Skowhegan	260 7/23 GW
2129 WYRK 106.5 NY Buffalo	245 0059 WGVF 88.9 NY Fredonia
7/13 Es	
2259 KDCR 91.3 IA Sioux Center	1075 0858 WPYX 106.5 NY Albany
2359 WBI 91.1 IL Carlinville	880 0859 WRLX 106.9 NY Auburn
7/14 tr	0901 CJBC 106.3 ON Peterborough, (CJBC-5), FF, //CJBC-AM
0030 CKFM 99.9 ON Toronto	250 7/25 Es
0031 CKO-2 99.1 ON Toronto	250 1030 KOBC 90.7 MO Joplin
0043 WGFN 99.5 NY Schenectady	155 1101 KCUR 89.3 MO Kansas City
0642 WTOS 105.1 ME Skowhegan	260 1104 KHUT 102.9 KS Hutchinson
0729 CFLY 98.3 ON Kingston, "Y-98"	108 73s & Good DX, Bill

+++++

Daniel Oetting - 2882 Old Cedar Grove Rd. - Broomall, PA 19008  
 Equipment: Panasonic RF-2600 w/Archer 10 element log yagi directed to the NW at 25 ft., and GE 7-2880B Superadio.

DX in August was pretty bad. No coastal tropo to speak of. Tropos to the west were limited to 300 miles, and generally uninteresting. E-skip activity this summer was good. There were lots of openings to the Maritimes, and the Northern Plains. There was very little Es to the South (at least on FM), which made this Es season unusual. I didn't get a whole lot of Es ID's this season though - 58. That's three less than I received last year.

7/31 tr	8/6 tr
2316 WCRH 90.5 MD Williamsport, g	1733 WMDM 97.7 MD Lexington Park, r
2321 WYRK 106.5 NY Buffalo, k	8/7 tr
8/3 tr	0800 WQLN 91.3 PA Erie, c, ID
2007 WBUF 92.9 NY Buffalo, r	8/11 Es
2007 WPNT 92.9 PA Pittsburgh, m	2202 KEYA 88.5 MD Belcourt, r, ID
2112 WCRH 90.5 MD Williamsport	2202 unIDs 90.5 big bands, 92.9 disco
8/5 tr	2226 Es off FM.
1731 WYRK 106.5 NY Buffalo	8/20 tr
2250 WWOR 100.5 NY Rochester, rm	0109 WTLQ 105.1 PA Williamsport,
8/6 tr	k, WIOV off
0819 WDBA 107.3 PA Du Bois, g, strong	0130 WOEZt100.9 PA Milton, m
0825 WZPR 100.3 PA Meadville, k,	8/26 Es
ID, "Country 1"	2310 unID 88.1 ?? ? j, (to W)
0835 WCKK 103.7 PA Erie, r, wx, "K-104"	2312 MUF off FM.

+ + + + +

Robert Grant - N8DZY - 5775 Bishop - Detroit, MI 48224

Equipment: Magnavox AL789 port. w/whip. (\*) Toyota car stereo, whip ant.

6/10 tr (Detroit)	7/20 Es
2030 WBFH 88.1 MI Bloomfield Hills, 10w	1855 WERS 88.9 MA Boston, Raggae, ID
7/13 tr (Detroit)	(still 900 watts?)
1200 WCGK 103.7 PA Erie,	7/21 Es (Platte Lake)
"K-104," local ads	2250 WFSU 91.5 FL Tallahassee
7/14 Es (Platte Lake)	2255 WNO 89.9 LA New Orleans
0045 WUT 89.1 FL Gainesville, ID	7/24 tr (Platte Lake)
(Time is EDT)	1200 WHRM 90.9 WI Wausau

This is my first report to NFM in quite a while. Not much DX is heard in a city with a local every 800KHz from 92.3 and up, a strong semi-local every other 400KHz and a number of strong stations on EFM. None of my FM DX gear has external antenna terminals. (I'm thinking of getting a TM-102). Local FM scene is a twisted mess. More than half the locals have, or plan to change format and call letters.

With TV chs. 70-83 being removed from TV, I wonder if a small part of this range (say, 81, 82 and 83 - 18 MHz wide) could be reallocated to "UHF-FM." A lot of people (groups) would apply for it in Detroit.

I wish more FMers would report to "CCI." I KNOW FMers are getting unidentified DX too! 73 & gud DX de N8DZY

+ + + + +

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

Equipment: Same as last month.

8/11 ms	8/14 tr
0159 WSPA 98.9 SC Spartanburg, wx	0033 WCBW 104.9 IL Columbia, gs\$ 310
prev. tr	0159 KJAK 99.3 MO Gordonville, r\$ 340
0238 WUSL 98.9 PA Philadelphia, k\$ 525	0300 WRVU 91.1 TN Nashville, 330
0342 KRQY 98.9 CO Pueblo, 1080	"91-Rock," WVUB off
Prev. ms & Es	2104 WAJP 93.5 IL Joliet, el\$ o/WZV 165
0517 WMTM 93.9 GA Moultriei 680	2353 WKKC 89.3 IL Chicago, s\$, 250w? 160
0840 WKKQ 93.9 MN Hibbing, k\$ 640	8/27 tr
1350 WKKQ 93.9 MN Hibbing 640	2257 KIWR 89.7 IA Council Bluffs, c\$ 565
8/12 ms	8/30 tr
0312 KTTL 93.9 KS Dodge City, 850	0300 WHY 107.3 TN Lebanon-Nashville, 300
prev. ms, Es, & tr	r\$, "Y-107," WTRE off
0407 WKKQ 93.9 MN Hibbing 640	9/5 tr
8/13 ms	2358 WUOG 90.5 GA Athens, r\$ 460
0547 WMTM 93.9 GA Moultriei 680	9/6 Au
0555 WKKQ 93.9 MN Hibbing 640	0400 WUOT 91.9 TN Knoxville, pre. tr 375
(ms details next month)	0410 WCRH 90.5 MD Williamsport, " " 400

+ + + + +

# EASTERN TV-DX

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

October 1982

William R. Hepburn: AES weather Station, Eureka, NWT Canada X0A 0G0 EDT  
 Here is my final TV-DX report south of latitude 80 degrees N, for a while anyway. I've been stationed at Eureka, NWT until February or so. Cornwall totals at 70, Niagara total still at 240.

Deadline: 1st

From Cornwall, ON:	July 1982	July 1982
July 1982	July 1982	July 1982
3 Es 1119 muf ch.2	14 Es 0041 muf 102 mhz	16 Es 1659 WPHT-2 FL 1370
4 Es 0943 " "	16 Es 1638 " ch. 4	Miami
13 Es 2329 " 92 mhz		18 Es 2123 muf ch. 4

From Niagara Falls, ON:	July 1982	July 1982
July 1982	July 1982	July 1982
21 Es 1143 muf ch.2	26 Es 1659 KFDX-3 TX 1220	30 Tr 0854 Detroit - 50,
23 Es 1152 " "	27 Es 1008 KTVY-4 OK 1045	56.62 ---- MI 210
25 Tr 0200 Detroit -	1056 KARD-3 KS "	0858 WKAR-23 MI 275
7,20,50,62 MI 210	1104 muf 102.9 mhz	0901 unided ch.33
26 Tr 0737 Detroit -	1110 KTVS-3 CO t	0915 WBGU-57 OH t
20,50,56 MI 210	1157 KDFW-4 TX t	0916 WCMU-14 MI t
Es 1633 KTBS-3 LA 1110	1200 KCKT-2 KS 950	0918 WEYI-25 MI t
1642 KOET-3 OK 1045	29 Es 0815 muf ch.2	WFUM-28 MI t
1651 muf ch.6	30 Tr 0000 WNP I-18 NY 230	

Bob Seybold; Bennett Rd., Dunkirk, NY 14048

There was some good DX this past week so will report it now before I forget. Some real terrific tropo on Aug. 5,6&7, especially from Illinois, Wisconsin, Michigan, Ohio, Indiana and Ontario. On 6 and 7 tropo to those areas was almost continuous all day and night with super peaks in morning and evening. Signals were of local level. Also, I will be new editor of TV Statistics so would appreciate a report of your TV totals for that column in the near future. Really don't know when first column will be. It depends upon how much and how soon I get enough info for it. Now my report:

Aug. 1st - arrived back from convention in evening. E-skip noted at Bill Thompson's home and then later at my home. Opening mostly to Texas, New Mexico, Oklahoma. Noted KMID-2, Midland; KENW-3, Portales; Lubbock-5, and others unided on chs. 2-6. Heavy skip, some tropo also, mostly Ohio, Indiana U's to 400 miles.

Aug. 5th - tropo, big opening building to west noted in morning but improved greatly toward evening. WCMU-14, WMTV-15, WANE-15, WNDU-16, WMAA-17, Rockford U's 17,23,39; Chicago U's 26,32,38,44,60,66 all good; Canton 17 & 67; WUCM-19, CICO-19(Sudbury), WTVV-18, WLFI-18, WXIX-19, WHIZ-18, WXOW-19, WXON-20, CICO-20, WHRM-20, WPTA-21, WHA-21, WUTR-20, WDCA-20, WHP-21, WDAU-22, WSBT-22, WKBF-22, WIFR-23, WKAR-23, WPTT-22, WQEX-16, WLRE-26, WCGV-24, WCIU-26, WEYI-25, WDHO-24, WHWC-28, WKOW-27, WFUM-28, WSJV-28, WTPA-27, W27AC, WBERE-28, WGTB-30, WIHT-31, WHLA-31, WFLD-32, WQVC-35, WMIT-34, WOSU-34, WKJG-33, WLIO-35, CBLFT-15-34, WMGC-34, WLEF-36, WPNE-38, WMTI-36, WCFR-38, WBAK-38, WQRF-39, WUHQ-41, WPCB-40, KDUB-40, WVVU-24 (and their xtrs on 41 & 48), WPEO-42, WSNB-44, WTLW-44, WIME-46, WKOI-43, WOUU-44, WNEO-45, WVIA-44, W47AB, WKBD-50, WCAE-50, WEOA-49, WCET-48, WPGH-53, WTVS-56, WFFT-55, WFTI-54, CBLFT-55(Barrie), WBGU-57, W58AM, WPWR-60, WQPR-62, WBTV-64, WVIZ-25 xtrs (W64AF, W67AL); WJIM-6 xltr (W67A), WGN-9 xltr in Iron Mt., MI(W59AQ), W64AR(WYAH-27) from same place; WFFN-66, W39AA, W55AP (WHWC-28, new), WRBV-65, WQOW-18 (Eau Claire, new). Many VHF stations in from WI, IL, MI, such as Green Bay, Chicago, Wausau, Eau Claire and others too many to list.

August 6th - tropo continuing with full strength signals - repeat loggings of most stations seen on the 5th but with few more - WJJC-26, WPTD-16, WICD-15, WOUU-44, WOUB-20, WSFJ-51 Newark, OH (new channel, formerly on ch.52)

August 7th - tropo continued - eastern WI, all MI, Chicago U's, Ft. Wayne, S. Bend U's, WLFI-18, WKOI-43, WKBD-50, Ohio U's - Dayton, Springfield, Columbus, Canton, Toledo, WHIZ-18, WOUU-44, Lima-Bowling Green U's all in; CBLFT-15, Utica, Binghamton, Elmira, Scranton, Pittsburgh, CBLFT-44, 32; CHOT-40; PA xtrs on 63,64,65,66; NY xtrs on 30, 65,69 & others in; system moving east in evening; stations to west weakening(after 3 days), WMSY-52 also logged recently -new for me(Marion, VA). Log total now at 883.

Eastern TV-DX

October 1982

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

Here is my report for Eastern TV-DX. I'm about to wind up a great E-skip season and begin a good tropo season. Equipment: KCA 12" portable model no. AFR-246-W.

Table with columns for station call letters, frequency, and location. Includes sub-sections for July 1982, August 1982, and August 1982 (continued). Lists various stations like KDIX, KPRY, KPLO, etc.

Total stations to date, 560. I'm hoping for a 900 mile tropo opening next month and I hope to reach the 600 station mark by the end of the year. TV-DX has been great here. It was topped off by that high band E-skip opening to channel 8 on August 1st. I've also ordered many editions of TV Guide to help complete my logo mural. I hope all WTFDA members had a great fall tropo season. (George, maybe next month you could elaborate on your high band Es you saw this month. In other words, give us more details behind the loggings.-wd)

Eastern TV-DX

October 1982

Frank Wheeler; 6589 Wattsburg Rd., Erie, PA 16509 EDT

Table with columns for station call letters, frequency, and location. Includes sub-sections for August 1982 and August 1982 (continued). Lists various stations like Es 1030, Tr 0700, etc.

Equipment: Sylvania 24" color tv, Archer VU-160 ant., Servo Rotor.

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

Table with columns for station call letters, frequency, and location. Includes sub-sections for July 1982 and August 1982. Lists various stations like Es 1335, Tr 1000, etc.

6/7/82 logging ch.2 was not WBEM. 6/15 ch.2 was WSB, not WBRZ. 7/20 stations logged were in for several hours, plus plenty of unids. Logs July 15,16, & Aug. 16,20 were at New York Medical College, about 15 mi. north of here; fixed antenna. Also, Es unids June 22 (muf ch.5), 24,25, July 13,22 (muf ch.5).

Richard Reese; 421 Marion St., Jersey Shore, PA 17740 EDT

Table with columns for station call letters, frequency, and location. Includes sub-sections for June 1982, July 1982, and July 1982 (continued). Lists various stations like Es 1046, Es 0859, etc.



Eastern TV DX  
July 1982

20 Es 2044 CJAP-3 NF  
2159 KATC-3 LA 1135  
2259 KGRF-2 ND 1095  
2302 KFDX-3 TX 1280  
2311 KDLH-3 MN 855  
2312 KXJB-4 ND 1095  
2329 KBME-3 ND 1250  
21 Es 1158 KJRH-2 OK 1080  
1159 KOET-3 OK 1090  
1228 KETS-2 AR 950  
1229 KTVI-2 MO 725  
WSIL-3 IL 665  
1259 KYTV-3 MO 910  
KMOX-4 MO 725  
1316 KARK-4 AR 950  
1432 KTBS-3 LA 1110  
1758 WEAR-3 FL 950  
1759 WDIQ-2 AL 885  
WNL-4 LA 1075  
1800 KETS-2 AR 950  
1805 WERZ-2 LA 1095  
1808 KATC-3 LA 1135  
1816 KFDX-3 TX 1235  
2055-2137  
KNOE-8 LA

23 Es 1122 KJRH-2 OK 1080  
1152 WERZ-2 LA 1095  
1156 KOET-3 OK 1090  
1159 KETS-2 AR 950  
KPRC-2 TX 1305  
1229 KTBS-3 LA 1110  
KDFW-4 TX 1240

Reese; continued---  
July 1982

23 Es 1239 KTAL-6 LA 1110  
1255 WESH-2 FL 885  
24 Es 1058 WFBT-2 FL 1100  
1147 WBRZ-2 LA 1095  
1357 WWL-4 LA 1075  
1358 KATC-3 LA 1135  
1359 WLBT-3 MS 960  
1417 KALB-5 LA 1105  
1418 KJAC-4 TX 1235  
1458 KETS-2 AR 950  
1525 WBAY-2 WI 605  
26 Es 1247 ICR-3 Cuba  
1313 ICR-2-2 "  
1321 ICR-6-6 "  
ICR-2-5 "  
1535 KTAL-6 LA 1110  
27 Es 0928 KARD-3 KS 1100  
0957 KIMT-3 IA 845  
1130 KOET-3 OK 1090  
1229 KYTV-3 MO 910  
KTVI-2 MO 725  
1259 KTIV-4 IA 1000  
1332 KDLO-3 SD 1045

August 1982  
1 Es 1028 WFBT-2 FL 1100  
1813 WDAF-4 MO 945  
1815 KARD-3 KS 1100  
KCKT-2 KS 1170  
2 Es 0929 ICR-2-4 1400  
WEAR-3 FL 950  
0958 WPTV-5 FL 1040  
0959 WCIX-6 FL 1100  
WWL-4 LA 1075

October 1982

5 Tr 1858 WUTV-29 NY  
Buffalo  
1859 WCNW-24 NY  
2059 WKBM-7 NY  
2329 WDIV-4 MI 300  
Detroit  
WJFK-2 MI 300  
Detroit  
2357 WXYZ-7 MI 300  
Detroit  
8 Es 2257 WBBM-2 IL 555  
2304 KQTV-2 MO 935  
2306 KGAN-2 IA 760  
11 Ms 0847 WESH-2 FL 885  
12 Ms 0610 WTAM-3 ???  
where ??????????  
0646 KTVI-2 MO 725  
14 Es 0834 CHHT-3 NS  
0929 WLBT-3 MS 960  
WERZ-2 LA 1095  
1029 WDSU-6 LA 1075  
26 Es 2159 KATC-3 LA 1135  
WNL-4 LA 1075  
2227 KTBS-3 LA 1110  
2258 KPRC-2 TX 1305  
KJAC-4 TX 1235  
2345 WREG-3 TN 820  
2400 KETS-2 AR 950

Lots of Es seen this summer. This report would be almost twice as long if I hadn't concentrated on FM during the big openings. I logged more new Es as I hoped for. Hope the

stations than expected but didn't see as much tropo Es season lasts till the end of September!

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

July 1982  
14 Tr 2330 WSBA-43 PA  
York  
2340 WHTM-27 PA  
Harrisburg  
2343 WITF-33 PA  
Hershey  
15 Tr 0034 WXNE-25 MA  
0037 W GAL-8 PA  
Lancaster  
0059 WERE-28 PA

July 1982  
15 Tr 0102 WHP-21 PA  
Harrisburg  
2330 WCDC-19 MA  
2345 W6LAC CT  
20 Es 1830 WJMN-3 MI  
Escanaba  
1900 CITO-3 ON  
Timmins  
21 Es 1815 WRCE-3 TN  
1830 KTBS-3 LA

July 1982  
21 Es 1956 WLBT-3 MS  
August 1982  
8 Tr 2140 All Boston stns.;  
RI - 36; MA - 27.  
2145 WTVU-59 CT  
2150 Boston - 4,5,7 --  
cc: on locals.  
11 Es 2159 Unided-3; last  
of the season.

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

August 1982  
8 Es 2045 Unideds to  
NE on 2 & 3.  
11 Es 1942 CKCW-2 NB 1117  
CKIT-1-3 NB 977  
Florenceville-Woodstock  
CHSJ-4 NB t  
CJBRT-3 PQ t  
2015 CHFT-1-5 NB t  
2037 WCAx-3 VT t  
2043 KYW-3 PA t  
2045 WUNC-4 NC 749  
2100 KMID-2 TX 1176  
2104 KCKT-2 KS t  
2159 WWAY-3 NC 882  
KFDX-3 TX 945  
KOA-4 CO 952  
KWGN-2 CO "  
2216 KENW-3 NM 1103  
2230 KTVX-4 UT 1264

August 1982  
11 Es 2230 KUTV-2 UT 1264  
2300 KTVS-3 CO 837  
2301 KYCU-5 or KSL-5  
2304 KREX-5 CO t  
2305 KDUH-4 NE t  
2309 KRMA-6 CO 957  
12 Tr 0743 W47-- MI  
Crystal Falls?(WJMN)  
13 Tr 0704 WHNT-19 AL 685  
WAAY-31 AL "  
WAFF-48 AL "  
WBMG-42 AL 768  
WZTV-17 TN 585  
WDRB-41 KY 437  
0730 WITO-21 AL 768  
Birmingham  
"Leave it to Beaver"  
promo followed by I.D.  
0756 WVUT-22 IN 405

August 1982  
13 Tr 0802 WHMA-40 AL t  
1818 WCTE-22 TN 589  
WAAY-31 AL 685  
WAFF-48 AL "  
WCET-48 OH 400  
1827 WBMG-42 AL 768  
WITO-21 AL "  
1830 WZTV-17 TN 585  
WHNT-19 AL 685  
1836 WFIE-14 IN 420  
WKPC-15 KY 437  
WLKY-32 KY "  
WKSO-29 KY 538  
1840 WKLE-46 KY 473  
1852 WXIX-19 OH 400  
1855 WSVN-47 VA 587  
(snow free)  
WMSY-52 VA 617  
WKON-52 KY 437

Eastern TV-DX  
August 1982

13 Tr 1855 WFSJ-51 OH 395  
1857 WKPT-19 TN 612  
WKPI-22 KY 554  
(snow free)  
1900 WPHY-33 WV 498  
WPEO-42 OH 461  
1908 WTVQ-36 KY 473  
1911 WHNS-21 NC t  
1921 WKYT-27 KY 473  
1928 WHIZ-18 OH 400  
1936 WHMA-40 AL 762  
1944 WKMU-21 KY 553  
1957 WEHT-25 IN 420  
2000 WUSI-16 IL 402  
WKMA-35 KY 499  
WKOH-31 KY 467  
2046 WKAS-25 KY 486  
WKHA-35 KY 551  
WUFT-5 FL 400  
2050 WUNF-33 NC t  
2109 WTCI-45 TN 671  
2117 WRIP-61 TN "  
14 Tr 0610 WAAAY-31 AL 685  
WAFF-48 AL "  
2040 WCET-48 OH 400  
WKLE-46 KY 473  
WTVQ-36 KY "  
WKYT-27 KY "  
WKPT-19 TN 612  
WSVN-47 VA 587  
2108 WKON-52 KY 437  
2142 WMSY-52 VA t  
2152 W47AB OH t  
15 Es 0027 Unideds on chs3&4  
from the SW.

Draeb; continued---  
August 1982

16 Es 2000 CFAC-2 AT 1310  
CFRN-3 AT 1320  
CHAT-1-4 AT  
CKMT-4 SK 940  
CFCN-4 AT 1310  
2130 CJFB-1-3 SK  
Unideds on ch.2  
2215 KRTV-3 MT 1159  
2245 KFBB-5 MT t  
23 Tr 1956 WUTV-29 NY 445  
25 Tr 1915 W46AC MI 90  
Traverse City  
(WCML-6)  
26 Es 2040 WDIQ-2 AL t  
WTVY-4 AL t  
WEAR-3 FL t  
2109 WEDU-3 FL 1192  
2110 WRFL-3 GA 853  
2122 WESH-2 FL 1130  
2134 WFBT-2 FL 1372  
2139 WCPX-6 FL 1164  
29 Tr 0646 WUOC-44 OH 427  
WNBO-45 OH 406  
WPTT-22 PA 480  
WPH-53 PA "  
0650 WLYJ-46 WV t  
WTVQ-36 KY 473  
WHIZ-18 OH 400  
W36AB MD 542  
0700 WCET-48 OH 400  
WKON-52 KY 437  
WBTI-64 OH 400  
WKLE-46 KY 473

October 1982

29 Tr 0704 WKHA-35 KY 551  
WKSO-29 KY 538  
WKYT-27 KY 473  
WXIX-19 OH 400  
WKPC-15 KY 437  
0708 WPHY-33 WV 498  
WCVN-54 KY 407  
WKYR-57 KY 551  
0712 KDNL-30 MO 432  
0719 WFSJ-51 OH 395  
WPBO-42 OH 461  
WOSU-34 OH 395  
0725 WKAS-25 KY t  
September 1982  
1 Tr 1904 WCET-48 OH 400  
2 Tr 1944 WKSO-29 KY 538  
WTVQ-36 KY 473  
WKLE-46 KY "  
1946 WKHA-35 KY t  
WCET-48 OH 400  
WPTT-22 PA 480  
WTVQ-36 KY 473  
WKLE-46 KY "  
WPKY-32 KY 437  
4 Tr 2023 WJET-24 PA 405  
WQLN-54 PA "  
WFMJ-21 OH 420  
2046 KDNL-30 MO 432  
2050 WYTV-33 OH 420  
2051 WKEN-27 OH "  
2054 WNBO-45 OH 406  
WEAO-49 OH 380  
WFSJ-51 OH t  
2110 WPH-53 PA 480  
WPTT-22 PA "  
W58AM OH 420

The WCML xltr on ch.46 in Traverse City was a surprise. It just came on recently. They had a fund raiser when I saw them. One of the announcers said there was going to be another xltr coming on soon in Suttons Bay on ch. 69. The xltr on ch. 46 must be running around 100 watts although I didn't hear them say how much power they were running. Some days they're booming in here and on others they are barely detectable.

I forgot to mention this the last few months but on June 26 DXer Art Schaefer of Sheboygan, WI was here for a visit. I showed him every thing. He said he wanted some pictures of my towers and I said help yourself (he had a camera along).

The I.D. slide of WITO-21 (seen on 8-13) consisted of a large "21" with small call letters and location beneath. The translator on ch.47 seen on 8-12 I think was coming from Crystal Falls, MI although I don't know for sure. I don't see them as often as the one on ch. 49 up there.

This morning on the Today Show KTPX-9 and KWAB-4 were welcomed to the NBC network. They used to be ABC. And last week on Good Morning America KOMU-8 was welcomed to the ABC network. I don't know what happens to KCBJ-17 as they used to have that network.

I asked the local electronics parts distributor about WSCO-14 which was applied for a few months ago. He delivers parts all around NE Wisconsin on a weekly basis. He said the equipment for the station was donated (he didn't go into any of the details behind this) but the station has yet to be assembled and put on the air.

Some last minute DX - Last nite some Au was in here. It started to the NE (Canada; no I.D.'s) and ended in the NW (more Canadian's but no positive I.D.'s until I saw KRTV-3 carrying the Jerry Lewis Telethon). The Au covered all the WHF channels but there was DX on chs.2-4 only. More DX next month - - - - wd.

# WESTERN TV-DX

October 1982

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

Deadline: 11-5-82

New \_\_\_\_\_ New Mode\_\_ \_ Tentative - t Unidentified - uid

John M. Jefferson, 4016 Crest Ct., Pleasanton, CA 94566 Log Total: 119 MST/MDT?

Well, such as it is, here's this year's TV catch. As usual, there was a great deal of cci for every ID - or even every unid'ed signal. On May 1, I had a Channelmaster VHF antenna erected on a 20' mast atop the roof. The old Radio Shack VHF antenna remains at 15' off the ground. It feeds the Bohsei b&w while the new antenna drives the color Hitachi CT-922. The Winegard CH-9095 UHF antenna is on the same mast with the Channelmaster (about 3' higher), with the Winegard booster and separate leadin. The expectation was that the old VHF antenna would be my E-skip antenna, with the locals tending to zap everything on the new antenna. Quite the contrary, the better directionality of the Channelmaster compensated well for the stronger signals, and the E-skip almost without exception, was much stronger up there. The notable exception, significantly, was KNAZ, Flagstaff, the nearest E-skip logging of the season. Anyhow, here's this year's "KMID and KENW show" (\* indicates new to Pleasanton):

## January 1982

1 Es 1930 XHBS 4 SN 1150  
(MUF- channel 5)  
2130 XHBS 4 SN 1150  
2 Es 1940-2000 cci ch 5

## April 1982

21 Es 1900 cci only ch 4  
27 tr 1900 K55BZ 55 CA 95  
(Planada KMPH-26)

## May 1982

8 Es 1405 KCKT 2 KS 1260  
1500 KFDX 3 TX 1320  
9 Es 1343 unid ch 2  
(MUF 93.9@ 1352)  
10 Es 1230 KDBC 4 TX 970  
XBJ t 5 CH  
XEPM 2 CH 970  
1358 KMID 2 TX  
13 Es 1224 unid 2 Spanish  
(MUF- channel 5)  
14 Es 1330 KNOP t 2 NE  
15 Es 2000 KMID 2 TX  
2012 unid channel 4  
2029 unid channel 6  
2100 unid channel 4  
16 Es 1646 KMID 2 TX  
(MUF 90.5@ 1620)  
1745 XHBS t 4 SN  
2100 KENW 3 NM 1050  
19 Es 0830 CKSA 2 AB 1225  
(MUF ch 5@ 0815)  
20 Es 1200 XHBS 4 SN  
1240 XHQ t 3 SN  
(TP, slides -  
one seemingly a  
map of west Mex-  
ico coast)  
1257 XHI t 2 SN  
(Color bars )  
1330 unid ch 3 PBS  
(MUF 100.1@1315)  
1335 unid ch 6 CB TP  
1400 XHIT 4 CH 1100  
(Canal 13, map  
centered on CH )

20 Es 2130 KDIX 2 ND 1155  
23 Es 1735 KMID 2 TX  
24 Es 1040 nothing but CCI  
(MUF 99.5@ 1040)  
25 Es 2017 unid channel 2  
27 tr 0555 KHJ 9 CA 315  
0600 KNBC 4 CA 315  
0730 KLCST 58 CA 315  
KBSC 52 CA 315  
(fairly gd color)

## June 1982

1 Es 1040 XHIT t 4 CH  
(Canal 13 )  
(MUF ch5 @ 1100)  
4 Es 2201 unid channel 3  
5 Es 0746 unid channel 3  
0800 KENW 3 NM 1050  
0815 unids ch 2,4 //  
(MUF 99.5@ 0830)  
1001-2100 unids ch 2  
2215 CKSA t 2 AB  
2220 CITL 4 AB 1225  
2235 CFAC 2 AB 1025  
6 Es 1920 unid channel 3  
(at Castro Valley)  
(MUF 88.7@ 2050,  
possibly 95.5)  
7 Es 0550 KRCR 7 CA 195  
(CB, call illeg-  
ible due to low  
contrast - audio  
ID @ 0558)  
Es 1118-1430 unids ch 2  
1458 unid channel 4  
2230 KJRH 2 OK 1425  
(MUF 90.7@ 2210)  
8 Es 2132 KTWO 2 WY 885  
9 Es 1025 unid channel 2  
10 Es 2005 unid channel 2  
(MUF channel 5 )  
13 Es 1810-1958 unid ch 2  
(MUF channel 5  
at 1920 & 2215 )  
1938 unid channel 4  
14 Es 1302 XEPM 2 CH 970  
(MUF 94.7@ 1358)

16 Es 1005 unid channel 2  
2105 unid channel 5  
(MUF 93.9@ 2105)  
2215 KWGN t 2 CO  
18 Es 1922-1938 unid 2 Span  
2000 KENW 3 NM 1050  
2005 unid channel 4  
19 Es 1128 CKTV 2 SA 1240  
1235 CITL t 4 AB  
CKSA t 2 AB  
(MUF 90.9@ 1220)  
1330 CFAC 2 AB 1025  
1426 unid channel 4  
1900 KJRH 2 OK 1425  
(MUF 92.9@ 1913)  
2002 KMID 2 TX  
2100 KENW 3 NM 1050  
20 Es 1000 unid 4 Spanish  
1435 unid ch 4 NBC  
1440 unid ch 5 ABC  
1502 KDIX 2 ND  
1600 KDUH 4 NE 985  
1628 KOTA 3 SD 1060  
23 Es 1000 CKTV 2 SA 1240  
1100 KOA 4 CO 915  
1108 KWGN t 2 CO  
1200 KUTV 2 UT 560  
(previous by ms)  
1355 KMID 2 TX  
(MUF 91.9@ 1345)  
1500 KFDX 3 TX 1320  
2200 KMID 2 TX  
(MUF 96.3@ 2222)  
24 Es 0934 unid channel 4  
(MUF 106.3@1052,  
possibly 107.1 )  
1132 KNOP 2 NE 1120  
2030 KTVQ t 2 MT  
(wish stations  
would leave call  
up more than a  
millisecond !! )  
2100 KMID 2 TX  
2130 KENW 3 NM 1050  
25 Es 2054 unid channel 4  
2059 unid ch 2 Span  
26 Es 0656-1158 unids ch 2

## Western TV DX

October 1982

### John M Jefferson (continued)

26 Es (MUF ch 5@ 1147)  
1159 unid channel 4  
1200 KTVQ 2 MT 890  
27 Es 1148 unid channel 2  
1305 unid 2-4 Spanish  
1401 XHI 2 ST 1030  
(MUF 100.1@1325)  
1426 unid 6, // to 4  
XHBS t 4 SN  
1428\*XHQ 3 SN 1250  
28 Es 0900 KMID 2 TX  
unid channel 4  
30 Es 0957-1042 unid ch 2  
1100 KENW 3 NM 1050

### July 1982

1 Es 1133-1233 unid ch 2  
2 Es 0744 unid channel 2  
1000 KDIX 2 ND  
(MUF 92.9@ 0930)  
2128 KMID 2 TX  
2207 XEPM t 2 CH  
3 Es 0845 unid channel 3  
0846-0901 unid ch 2  
1002-1030 unid ch 4  
1100 KAUZ 6 TX 1320  
(MUF 99.9@ 1147)  
4 Es 0859 KFDX 3 TX  
7 Es 1800 (cci noted on 2  
at work on TV w/  
broken whip ant)  
8 Es 0958 unid channel 2  
(MUF 93.9@ 1122)  
2032 unids ch 2,4  
(MUF channel 5 )  
9 Es 0700 KPRY t 4 SD  
(MUF 107.7@0720)  
0830 CKSA 2 AB 1225  
0920-0943 (MUF 105.5)  
1041 KENW 3 NM 1050  
1359 KENW 3 NM 1050  
1425 KMID 2 TX  
1501\*KAVE 6 NM 1075  
1600 KENW 3 NM 1050  
1800 KDUH 4 NE 985  
(MUF 106.3@1849)  
1931 KCKT 2 KS  
2315 KNOP 2 NE 1120  
10 Es 1100 KNOP 2 NE 1120  
(MUF 100.7@1215)

10 Es 1418 KXLY 4 WA 750  
(MUF 103.5 from  
1505-1530)  
1555 CBut t 2 BC  
2230 KSNE 4 NE 1270  
15 Es 2333-2354 cci only to  
channel 4  
16 Es (MUF 88.3@ 0002)  
17 Es 1547 unid channel 2  
1633 unid channel 3  
1800 KDUH 4 NE 985  
(MUF 93.9@ 1800)  
18 Es 1300 KENW 3 NM 1050  
KMID 2 TX  
1340 KAMR 4 TX 1115  
1458 KNOP 2 NE 1120  
19 Es 0858 CHBC 2 BC 875  
(Kelowna ph #  
supered on g pgm)  
(MUF ch 5@ 0901)  
(MUF 90.5@ 1052)  
20 Es 1100 XEPM 2 CH  
1159 unid channel 4  
21 Es 0234 unid channel 2  
0255 unid channel 3  
1130 CFAC 2 AB  
2046 unid channel 2  
2106 unid 4 Spanish  
2114 unid channel 3  
22 Es 0702 unid channel 2  
1000 unid channel 2  
1130 KTVY 4 OK 1355  
(MUF 99.9@ 1207)  
1229 KTXI 5 TX 1150  
1323 KAMR 4 TX  
1515 KNAZ 2 AZ 605  
(MUF 104.9@1841)  
2005 KCKT 2 KS  
23 Es 1214-1414 unids ch 2  
1328 unid channel 4  
1510 KCKT 2 KS  
(MUF 106.3@1755)  
24 Es 1007 unid channel 2  
1100 unid channel 4  
1130 unid channel 3  
(MUF 95.9@ 1133)  
1729 KTWO 2 WY 885  
1759 KTWO 2 WY 885  
25 Es 0845 unids ch 2,4  
(MUF 100.3@0852)  
1000 KAMR 4 TX

26 Es 1515 KCKT t 2 KS  
1610 KAMR 4 TX  
(MUF 98.7@ 1628)  
1647 unid channel 4  
1720-1825 unid ch 2  
27 Es 0827 unid channel 2  
1258 unid channel 2  
2013 unid ch 2,4  
2035 KTWO 2 WY 885  
2140 KDIX 2 ND  
2243 unid channel 2  
28 Es 1100 KMID 2 TX  
2002 KWGN t 2 CO  
2010 unid channel 3  
2100 KMID 2 TX  
29 Es 1059-1125 unid ch 2  
30 Es 1224-1231 unid 2 Span

### August 1982

1 Es 1100 KMID 2 TX  
(MUF 99.1@ 1114)  
1135-1148 unid ch 3  
1225 unid channel 4  
2 Es 1910-1950 unid ch 2  
(Bruce Lee film-  
strong. KWGN??)  
3 Es 1115-1128 unid 2 Span  
1233 KMID 2 TX  
1300 KDBC t 4 TX  
1300-1530 unid ch 2  
2059-2231 unid ch 2  
2208 unid ch 3 CBS  
2234 KWGN 2 CO 915  
2239 unid channel 4  
2247 unid ch 2-5  
8 Es 0856 unid channel 2  
1000 KDIX t 2 ND  
(MUF 93.9@ 1015)  
9 Es 1750 unid channel 3  
1813 unid channel 4  
1930 KMID 2 TX  
(MUF 106.3@1958)  
2030 KTXI 5 TX 1150  
10 Es 1853-1950 unid 2 Span  
2009-2050 unid 4 Span  
2100 XHBS 4 SN  
17 Es 1728-1735 unid 2 NBC  
1743-1758 unid 2 Span  
1820-1830 unid ch 2,4  
21 Es 1005 unid channel 2

Well, that's it. Bear in mind while reading about all those unids that KTVU-2, KRON-4, and KPIX-5 are only 25 miles mww of here, and KCRA-3 and KVIE-6 are 40 miles nne. Channel 3 and 6 entries, please note, tend to come from se; there's a fairly good null in that direction. Unfortunately, audio and video seldom null in the same place on channel 3, so often have a picture of William Buckley with HeeHaw audio. Makes great entertainment!

(Thanks for the report, John. I had no trouble using your entire report, but in the interest of timeliness, reports submitted every couple of months would be nice.

Ronald Purdue, Route # 1, Box 224, Byron, MN 55920

CDT

### August 1982

2 tr 0700 KNMT 12 MN 231  
0702 WIFR 23 IL 194  
3 tr 1820 K26AC 26 MN 260

3 tr 1845 WIRT 13 MN 231  
1847 KDLH 3 MN 190  
4 tr 1635 WGTU 29 MI 336  
1958 WDIO 10 MN 190

4 tr 2010 WKAR 23 MI 412  
2014 WGVC 35 MI 336  
2044 WCMU 14 MI 387  
2052 WMMJ 17 MI 336

# PHOTO-NEWS

Mike Reid  
109 Arjay Cres.  
North York, Ont. M2L 1G6  
CANADA  
Deadline: 20'th

Ronald Purdue (continued) 5 tr 0724 WEYI 25 MI 430 6 tr 2154 WXON 20 MI 487  
0729 WKBD 50 MI 487 (ONTV no barker)  
August 1982 (continued) 0730 CKCO3 42 ON 512 20 tr 0714 WFLD 32 IL 288  
4 tr 2101 WUHQ 41 MI 390 0732 WFUM 28 MI 450 0716 WSNS 44 IL 288  
2104 WMTV 9 MI 336 2044 WEYI 25 MI 430 0906 KMEG 14 IA 218  
5 tr 0721 WMA 17 MI 336 6 tr 2141 WCGV 24 WI 237

August was another all tropo month here in se Minnesota. On the 3rd, I bagged my first LPTV station from Bemidji; so I sent them a reception report, but have gotten no reply in the mail (how slow the USPS is!).

By September 15th, KIMA-23 in Minneapolis will go on after their CP was granted in 1969 (that was 13 years ago!). They will be STV full time (no free programming) using SPECTRUM Subscription Service. I tried to sign up on the 13th, but they won't let me because I am out of their service area (STV). So, I sent them a letter stating that I have a good antenna and pre-amp, and suggesting that they consider a 75 mile radius service area rather than a 60 mile.

I have written my senators in Washington asking them to re-regulate STV; primarily to require STV stations to broadcast 28 hours per week of Free TV programming. I am expecting KIMA to go dark after only 3 months of operation due to lack of commercial advertising.

WFBT-29 will go on around October 1st and KXLI-41 about a month later. Work is progressing on KIMA, WFBT, and KXLI, and they will be good DX targets for fall tropo DX'ers. So, good fall DX and see you in 30. 73's.

(thanks, Ronald. it's good to see that we were both successful in logging some new stations during the same tropo openings. fm)

Fred McCormack, Des Lacs, ND 58733

CDT

August 1982 1 tr 0850 K40AA 40 330 1 tr 0900 CBKFT 13 SA 200  
1 tr 0217 K24AE 24 MN 330 (Alexandria KTHI-11) 0901 CBKFT10 16 225  
(Alexandria KSTP-5) 0851 K38AC 38 MN 330 (Moose Jaw)  
0759 WLEF 36 WI 555 (Alexandria KMSP-9) 0902 CBKFT8 21 200  
0800 K20AC 20 MN 330 0852 K36AA 36 330 (Willow Bunch)  
(Wadena KSTP-5) (Alexandria WDAY-6) 0904 CBKFT6 39 245  
0800 K22AC 22 MN 375 0852 K14AD 14 MN 375 (Gravelbourg)  
(Brainerd KSTP-5) (Willmar KSTP-5) 21 tr 1045 CKND# 2 MB 155  
0800 K32AE 32 MN 350 0855 K46AG 46 MN 315 (Minnedosa)  
(Long Prairie KSTP-5) (Bemidji KDLH-3)

Take note of a new channel 2 station. I don't have any references reporting its call letters yet, but it is a relay of the Winnipeg independent television station, CKND. It is authorized to use the channel 2 allocation for Brandon.

Fred McCormack, 135 Prairiewood Drive, Fargo, ND 58105

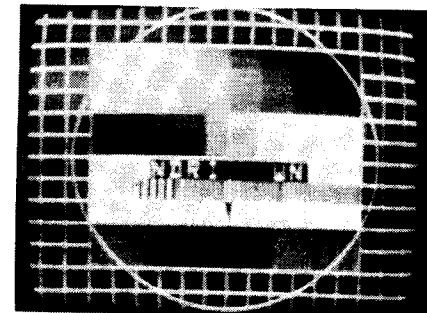
CDT

July 1982 4 tr 0531 CBWDT1t 12 ON 11 Es 1958 WGR 2 NY 935  
31 tr 0030 K50AK 50 MN 100 CEWCIT t 5 ON (MUF 107.7@2022 - se)  
(Bemidji WIRT-13) CBWAT t 8 ON 2100 WAGA 5 GA 1115  
0759 KTSD 10 SD 240 (the above 3 all (MUF 106.1@2128 - GA)  
had CB with time) 2130 WRAL 5 NC 1215  
August 1982 2100 WPNE 38 WI 455 2226 KTVI 2 MO 660  
3 tr 1955 WLRET 26 WI 2059 unid ch 29 ABC tr 2400 KCPT 19 MO 550  
2000 WHRM 20 WI 365 2204 K46AG 46 MN 100 12 tr 0030 unid ch 50 relig  
WHWC 28 WI 270 (Bemidji KDLH-3) Es 0021 KTBS 3 LA 990  
WLEF 36 WI 315 5 tr 0615 WKBD 50 MI 725 tr 0050 KSHB 41 MO 550  
KTCT 17 MN 215 0616 WTVS 56 MI 725 0103 KETV 7 NE 385  
WQOW 18 WI 280 0615 WXONt 20 MI 0121 KCBJ 17 MO 600  
4 tr 0050 CBWT3 29 MB 160 0625 WMA 17 MI 620 0522 WHO 13 IA 385  
0116 K57BJ 57 MN 130 0627 WEYIt 25 MI KCCI 8 IA 385  
(Brainerd WDI0-10) 0630 WGTU 29 MI 580 0631 unid ch 25 relig  
0120 K59BQ 59 MN 145 0700 WUHQ 41 MI 630 13 ms 0000 WJBK 2 MI 730  
(Deer River KDLH-3) 6 tr 0926 WNET 38 WI 14 tr 0154 KHGI 13 NE 440  
0220 WSAW 7 WI 365 0959 WKart 23 MI 0208 KCNA 8 NE 365  
0526 WLUC 6 MI 425 1018 WTVt 18 WI 0220 KETV 7 NE 385  
0528 WSAW 7 WI 365 2101 unid ch 5 ABC 0550 KMTC 27 MO 695  
(3/4 ID'd CB TP) (MUF 104.3@2115 - UT) 0559 WEAU 13 WI 320  
WKBT 8 WI 325 2130 KBCI 2 ID 960 0621 KTSB 27 KS 540  
(MUF 105.7@2137 - NV) 0638 KSTN 27 IA 300

(continued on page 44)



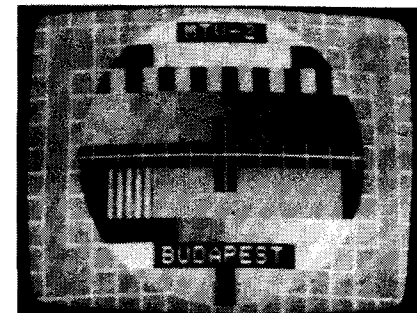
Bayerischer Rundfunk-W. Ger.



NDR- West Germany



MTV-1 Hungary



MTV-2 Hungary

Request: I would like to know what kind of TP each of the following stations ran before s/on about four years ago: WSAZ-3, WRCB-3, WSM-4. Pictures, good sketches, or names all acceptable. These are for old un-ID's.

73's Mike

# VHF UTILITY DX

Donald L. Blevins  
499 Monterey Avenue  
Odenton, MD 21113  
phone 301-551-8623

VHF UTILITY DX September 1982

VHF-UHF Utility DX...This month focus in on the mobile DX set up. How may I make use of my scanner in my motor vehicle? This article will attempt to comment on my experiences with the public service band receiver.

My set up is a Bearcat 210, and a dual band antenna with a rain gutter clamp for easy removal. I might point out that some states have laws prohibiting installing a police monitors in a motor vehicle. Most of my survey is the result of a semi-fixed set up at a parking lot or camp site as the case may be. There are actually three different surveys in this report, some more productive than others.

Survey #1 location: Stronghold, Maryland atop Sugar Leaf Mountain 120C'

- 42.10 West Virginia State Police Romney, WV
- 42.10 West Virginia State Police Martinsburg, WV
- 42.26 West Virginia State Police various mobiles in northern WV
- 39.18 Washington County Sheriff's Department Hagerstown, MD
- 39.18 various mobiles of Washington County Sheriff's Department
- 155.745 Hagerstown Police Department Hagerstown, MD (and mobiles)
- 37.18 Winchester Police Department Winchester, VA
- 39.78 Loudoun County Sheriff's Department and various mobiles
- 162.475 NOAA Weather Radio Station Hagerstown, MD
- 39.02 Fredrick County Sheriff's Department and various mobiles
- 33.86 Washington County Fire Control Hagerstown, MD
- 46.33 Loudoun County Fire Control Leesburg, VA
- 39.38 Maryland State Police Woodlawn, MD and various mobiles

Survey #2 location: Memphis, New York

- 155.10 Unknown agency possibly Onondago County Sheriff Syracuse, NY
- 155.415 Onondago County Sheriff Syracuse, NY various mobiles
- 155.25 Auburn Police Department Auburn, NY (repeater)
- 155.685 Onondago Sheriff's Department Syracuse, NY
- 154.905 New York State Police unknown location
- 162.55 Syracuse NOAA Weather Radio
- 155.505 New York State Police North Syracuse, NY
- 154.92 New York State Police mobiles of 155.505
- 155.505 New York State Police Lafayette, NY
- 155.13 Madison County Wampsville, NY
- 155.25 Oswego County Oswego, NY
- 460.325 Syracuse Police Department
- 46.14 Onondago County Fire Control various mobiles
- 39.14 Cayuga County Auburn, NY
- 155.79 Solvay Police Department
- 155.505 New York State Police New Hartford, NY
- 39.18 Various agencies in New York
- 39.14 Stueben County Bath, NY
- 155.55 Seneca County Seneca, NY
- 155.265 Ambulance Company Onondago, NY
- 154.74 Onondago County Syracuse, NY
- 155.64 Onondago County Syracuse, NY

Survey #3 location: Doubling Gap, PA near Newville, PA

- 46.06 Counties of: Union, Cumberland, Snyder, Perry, Juniata: Pennsylvania
- 155.67 Pennsylvania State Police at: Chambersburg, York, Gettysburg
- 155.505 Pennsylvania State Police at: Lewisburg
- 155.625 York County Communications York, PA
- 45.90 Cumberland County Communications at: Mount Holly Springs, PA
- 45.86 Cumberland County Communications at: Mount Holly Springs, PA

(This was the most disappointing survey of the three)

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

5/2 1859	WQZ 5804	156.80	Mouth of West and Rhodes River, MD	SUCCESS
5/23 1442	WXJ 2077	157.30	West River, MD	VOYAGER V
6/19 2046	N113AA	127.7	in route to New York	American Airlines 316
6/20 0112	VRGW	157.30	Annapolis, MD	VALDIVIA
7/16 1406	N444YZ (Cessna 172)	128.1	Millville, NJ	Phillips, Bartlett & Skinner PC
7/17 0237	WYQ 5181	157.30	Rose Haven, MD	LADY ELAINE
1231	WXQ 3535	156.80	Point Lookout, MD	SODBUSTER II
1536	WZZ 8248	156.80	Knapp Narrows, MD	LAMPREY
1545	WYT 2426	156.80	Phoenix, MD	SEA DOVE
7/18 1210	MMK-5	157.175	Beach Haven, NJ	US Coast Guard
1535	WYX 6565	156.80	Chesapeake Bay Bridge, MD	SAL ROW III

Thomas J. Yingling, Jr. 221 Pinewood Road Baltimore, MD 21221.....

8/16 2304	KKB 583	37.04	Fort Smith, AR	Sebastian County Sheriff
2306	KYI 844	37.24	Perryville, AR	Perry County Sheriff
2317	KAA 243	42.06	Springfield, MO	Missouri Highway Patrol
8/18 1859	KJP 930	37.08	Lonoke, AR	Lonoke County Sheriff
1900	KTE 554	37.10	Crawford, AR	Crawford County Sheriff
2025	KAD 732	39.58	Belleville, KS	Republic County Sheriff
2030	KAE 695	39.58	Atchinson, KS	Atchinson County Sheriff
2124	KJP 293	39.58	Yates Center, KS	Woodson County Sheriff
2100	KAB 311	42.46	Holdrege, NE	Nebraska State Patrol

Well that's all folks....very little skip since last time. I'm hoping that there will be a return of the odd-ball north to south skip from South America that made possible many fire departments from Ohio, Pennsylvania and New England. The F-2 cycle is nearly dead, which might account for the change in direction of the super bounce. I hope to see your reports from you all real soon..... Why not drop me a line telling me what you are getting in your area? As you can see I haven't been doing too bad with my screw in whip. Till next time good luck with good DX!

Don



# C.C.I. [UNIDENTIFIED DX]

Robert Grant, NBDZY.  
5775 Bishop  
Detroit, MI 48224.  
October, 1982.

CCI-unidentified DX.

October, 1982.

TV unIDs:

1982: Jim Pizzi, P.O. Box 1778, Lovington, NM 88260.  
 Mon 14 Jun Es ch 4 1732 MDT-- "Family Feud" (PTA: SE'n US.)  
 Tue 15 Jun Es ch 6 1739 MDT-- "Rockford Files" (PTA: E.)  
 " " " " ch 4 1744 MDT-- "M\*A\*S\*H" (PTA: E.)  
 Wed 16 Jun Es ch 2 0820 MDT-- "PTL Club" (PTA for 6/16 is NE.)  
 " " " " ch 3 0833 MDT-- "700 Club" (?)  
 " " " " ch 2 0855 MDT-- "I Love Lucy"  
 " " " " ch 4 0901 MDT-- "The Peoples Court"  
 Thu 17 Jun Es ch 4 1731 MDT-- "Muppet Show" (PTA: N)  
 " " " " ch 4 1731 MDT-- "Happy Days" (PTA: N)  
 Fri 18 Jun Es ch 5 0807 MDT-- "Merv Griffin" (PTA: E)  
 " " " " ch 3 0831 MDT-- "Carol Burnett Show" (PTA: E)  
 " " " " ch 3 2000 MDT-- "The Love Boat" dubbed into SS (Spanish)  
 not XEW network, PTA Mexico.  
 Sun 20 Jun Es ch 2 2332 MDT-- "PTL Club" (PTA North, KDLO-3 in.)  
 Fri 25 Jun Es ch 4 2129 MDT-- ad for HBO on "TV CUBE" (PTA: IL,MI,IN,OH.)  
 (Columbus has a cable called "Qube". maybe WCMH? -RG)  
 Tue 6 Jul Es ch 5 1400 MDT-- "Charlie's Angels" (PTA: E)  
 " " " " ch 2 1400 MDT-- "Little House On The Prairie" (PTA: E)  
 Fri 9 Jul Es ch 3 0847 MDT-- "Carol Burnett Show" (PTA: E)  
 Sun 11 Jul Es ch 4 1051 MDT-- "The Movies" showing "Roots" (PTA: FL,SC.)  
 Fri 23 Jul Es ch 2 1822 MDT-- "Emergency" (PTA: AB,MT,LD.)  
 " " " " ch 6 1839 MDT-- "M\*A\*S\*H" (PTA: AB,MT,LD.)  
 Sat 24 Jul Es ch 2 2140 MDT-- old Danny Kaye movie (PTA: E)  
 " " " " ch 3 2144 MDT-- movie: "Pride Of The Yankees" (PTA: E)  
 " " " " ch 3 2145 MDT-- "Solid Gold" (PTA: E)

(Jim also says that his ch 364 "Peoples Court" loggings were not the same episode. (July))

1982: Ronald Purdus, Route # 1, Box 224, Byron, MN 55920.  
 Sat 8 May Tr ch 54 0850 CDT-- xltr of WJNC-TV (28, Menominee, WI) (PTA: N)  
 Sun 30 May Tr ch 32 0728 CDT-- xltr of KSTP-TV (5, St. Paul, MN) (PTA: SSE)  
 (8/79 FCC TV NEWS lists app. for lkw at St. James, MN. 6/81 WESTERN TV DX  
 Fred McCormack logged a ch 32 KSTP xltr at Long Prairie, MN but that's not SE of you. -RG)  
 Sat 26 Jun Es ch 4 1130 CDT-- ad- "Gulf World" (PTA: SSE)

1982: Bill Fahber, 336 Atlantic Street, Bridgeton, NJ 08302.  
 Tue 18 May Tr ch 26 0000 EDT-- non-network program. no signals on VBI. WETA off. (NE)  
 (WMEG-TV Biddeford, ME is the only 26 in that direction. -RG)  
 Sun 13 Jun Es ch 4 2320 EDT-- ad- "Crawford Rayton Dodge"  
 " " " " ch 2 2115 EDT-- ad- "Bill Hayes Financing Co."  
 " " " " ch 3 2345 EDT-- "700 Club" (Bill suspects this may be KMTV)  
 " " " " ch 4 2345 EDT-- "700 Club"

1982: Christopher Hanley, 1125 Bolton Street, Winston-Salem, NC 27103.  
 Tue 15 Jun Es ch 2 1930 EDT-- "MacNeil-Lehrer Report" + offset (PTA: N)  
 (very little doubt, It's WGBH, Boston, MA. -RG)  
 " " " " ch 3 1945 EDT-- ad- "Midlands Mall" (PTA: NNE)  
 Wed 21 Jul Es ch 4 2014 EDT-- Kansas City at Toronto Baseball, Non-network. (PTA: W)

1980: Mike Reid, 109 Arjay Crescent, Willowdale, ONT. M2L 1G6, Canada.  
 Tue 12 Aug Ms ch 5 0043 EDT-- "Good Night" slide (see drawing 1)  
 " " " " ch 5 0130 EDT-- "Medical Center"  
 1981: Sun 5 Jul Es ch 2 1439 EDT-- 3/4 CBP and tone (PTA: SSE) (most likely ICR2 Havana -RG)  
 Sun 26 Jul Es ch 6 1350 EDT-- "Star Trek" into "Hogan's Heroes" at 1400. (PTA: SSE)  
 1982: Mon 24 May Es ch 4 1933 EDT-- "The Jeffersons" (PTA: TX,OK,KS,AR,LA.)  
 Thu 17 Jun Es ch 2 2332 EDT-- "Independent Network News" (PTA: W) (Definitely KWGN -RG)  
 Fri 25 Jun Es ch 3 0141 EDT-- "ShaNaNu" (Antenna WSW)

1982: Frank Merrill, P.O. Box 7207, Toledo, OH 43615. (PTA Mexico, 2 Mexican ads seen)  
 Wed 2 Jun Es ch 3 1900 EDT-- ID in SS: Television Tres, el canal de las estrellas.  
 which is spanish for "TV-3 the channel of the stars" NOT CUBA nor XEFD (see drawing 2)  
 Fri 9 Jul Es ch 3 1936 EDT-- in SS: "The Channel of the stars" (see drawing 2)

TV unIDs:

1982: Saul Chernos, 79 Ridge Drive, Toronto, ONT., M4T 1B6, Canada.  
 Fri 2 Jul Es ch 2 1800 EDT-- "World Cup Soccer" announcer had "English" accent.  
 (PTA: SSE)

Sun 18 Jul Es ch 2 1626 EDT-- "Here's 2 Hollywood" (movies)  
 Thu 12 Aug Es ch 6 0050 EDT-- "KBS Night" religion show with phone in. a call  
 from Albany. (PTA: NE,WY,ND,CO,KS,MO,OK,IA.)

1982: Robert Grant, NBDZY., 5775 Bishop, Detroit, MI 48224. editor.  
 Thu 8 Jul Es ch 5 1645 EDT-- "The Munsters" (PTA: TX,OK,CO,NM.)  
 " " " " ch 3 1805 EDT-- "Cable News Network 2 News" (PTA: TX,OK,LA.)  
 Sun 11 Jul Es ch 4 2000 EDT-- β offset, French. not SRC. (ind. or TVA.)  
 ad for something (phone # 522-8424.)  
 (PTA: ON,PQ,NS,NB,PEI,NF. WSTM and CJON in.)

From Honor, MI:

Tue 13 Jul Es ch 4 2106 EDT-- 3DTV (PTA: SSW)  
 " " " " ch 5 2320 EDT-- "M\*A\*S\*H" (PTA: NY,DC,MA.)  
 Fri 16 Jul Es ch 2 0330 EDT-- ID as Channel 2/7 (see drawing 3) then goes into  
 "Match Game" then at 0339 promo for "2/7 Newsfirst"  
 (see drawing 4) PTA probably West. NOT KHON nor CKTV.  
 " " " " ch 2 0356 EDT-- "Emergency"  
 Mon 19 Jul Es ch 2 0735 EDT-- "Cable News Network 2 News" (PTA: TX,OK,LA.)  
 Wed 21 Jul Es ch 2 1637 EDT-- "Star Trek" (PTA: S)  
 " " " " ch 4 1742 EDT-- "What's Happening?" - offset.  
 Mon 26 Jul Es ch 2 1914 EDT-- "Doctor Who"  
 Tue 27 Jul Es ch 6 1113 EDT-- "PTL Club" (PTA: S)

FM unIDs:

1982: Jim Pizzi, P.O. Box 1778, Lovington, NM 88260.  
 Tue 15 Jun Es 89.9 1735 MDT-- 1940's Music.  
 Fri 18 Jun Es 95.3 2138 MDT-- SS (PTA: NNE)  
 Sun 20 Jun Es 90.3 1944 MDT-- "Jazz Line" (PTA: NEast)  
 Fri 2 Jul Es 92.1 0853 MDT-- "Great Lakes Radio Network"  
 Thu 8 Jul Es 104.9 0836 MDT-- "FM 104" rock format. (PTA: TN,KY,NC,WV,VA.)

1982: Ronald Purdus, Route # 1, Box 224, Byron, MN 55920.  
 Thu 6 May Es 93.3 1650 CDT-- SS Music. (PTA: SSW) (Ron Schatz lists only 3 Mexicans  
 on 93.3. all quite weak. -RG)  
 Tue 15 Jun Es 98.9 1735 CDT-- ad- "Patie Center" (PTA: SSE)

1982: Mike Reid, 109 Arjay Crescent, Willowdale, ONT. M2L 1G6, Canada.  
 Mon 4 Jan Ms 94.1 0200 EST-- ABC News  
 Mon 7 Jun Es 95.7 1540 EDT-- ad- "Bennigans" (?) and "Magic 96" non-ID.  
 (PTA for 6/7 is FL,GA,AL,MS,LA.)  
 " " " " 103.7 1806 EDT-- NBC News, r or p format.

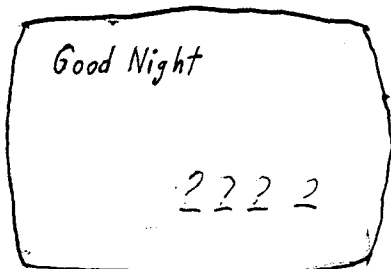
1982: Saul Chernos, 79 Ridge Drive, Toronto, ONT. M4T 1B6, Canada.  
 Tue 8 Jun Es 104.3 1845 EDT-- ad- "Dimitri's Restaurant in Greentown" (PTA: IA,ND,SD)  
 Sun 11 Jul Es 94.3 2035 EDT-- "King Biscuit Flower Hour" syndicated rock program  
 (PTA: IA,NE,WI,MN,KS,TX,OK and Canadian Maritimes.)  
 " " " " 94.9 2133 EDT-- RKO.  
 Mon 26 Jul Es 103.3 1657 EDT-- "Texas State Network" News & Gospel.

1982: Robert Grant, NBDZY., 5775 Bishop, Detroit, MI 48224. editor.  
 Wed 14 Jul Es aprx. 96 0055 EDT-- ad mentioned "I-10 near Clairview" (PTA: S)

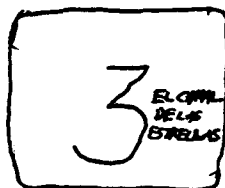
TV IDs:

1981: Bill Fahber  
 Mon 7 Dec Ms ch 2 0218 EST-- ad- "Q-101" radio. (I have discovered this is WBBM -RG)  
Jeff Wolf  
 1980: Wed 9 Jul Tr ch 12 0430 EDT-- (WICU not on that late, so WISN. -Mike Reid.)  
 1982: Robert Grant  
 Mon 4 Jan Es ch 2 &3 0700 EST-- "Univ. of the air." (Mike Reid IDed these as  
 CKTV and CFQC1.)  
 " " " " ch 3 0728 EST-- 11/16&1/16 CBP and CBC round card.  
 (Mike Reid says this is CWFT)

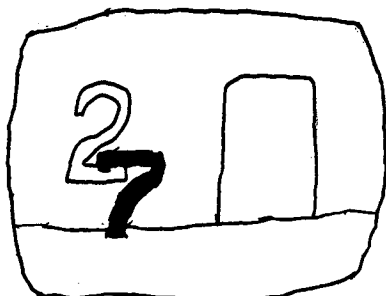
# WORLDWIDE TV-FM DX ASSOCIATION 1982 CONVENTION REPORT



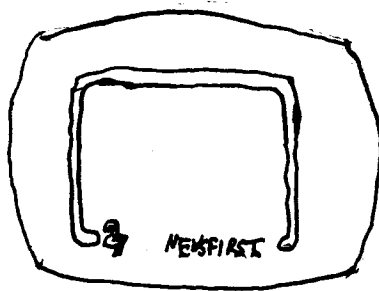
DRAWING 1



DRAWING 2



DRAWING 3



DRAWING 4

Staten Island, NY was the site of this year's WTFDA convention, hosted by Jerry Pulice, WB2CPA. This first WTFDA convention to be held in the New York City area drew a crowd of over 30 DXers, some coming from as far away from Texas and Tennessee.

The main part of the convention activities got underway on the morning of July 30th (friday), although there were several early arrivals on Thursday. Following a morning gab session, during which many DXers were just arriving, a group of about one third of the attendees took the Staten Island Ferry trip into Manhattan to visit the World Trade Center, site of most of New York City's TV and FM transmitters. On the 106th floor of the tower with the transmitting antenna mast, the group was treated to a tour of WOR-9's transmitter--and received a surprise when the "next-door neighbor" engineer-in-charge at WPIX-11 invited them across the hallway to see the WPIX-TV and FM transmitters, which were complete with a recently burned out final output tube from the TV transmitter! Following that, the DXers made a trip of over 200 storeys--down and up again to the twin tower with the observation deck.

Back on Staten Island, all the attendees were invited out to Jerry's house for a backyard cookout/DX gab session, which lasted well into the evening.

The next morning started off with a most unfortunate mishap. PHOTO-NEWS editor Mike Reid was accidentally injured at the hotel, cutting his foot. Following a quick trip to a nearby hospital, attendees received the bad news that Mike had to receive stitches, and had to return home to Toronto. Thanks to some expert first aid advice from Robert Goodman, and a car provided by Bob Seybold, the DXers were able to get Mike attended to fairly soon. Word from Mike is that his foot is much better now, although he may be the first DXer with a scar to remind him of a past DX convention, hi!

Fortunately, the rest of the convention continued on without mishap, and the rest of Saturday was taken up with discussions and lectures on everything from scrambled television signals, to the problems posed to DXers from cable TV's continued growth, to the best DX receiver for the DXer. Jerry showed plans and a prototype circuit for his ultra-low-noise highband TV DX amplifier, which should produce fairly astonishing results. The banquet, an Italian Smorgasbord, followed, as well as a couple of after-dinner talks.

DXers were then invited out to Jerry's house that evening for some refreshments (and there was no shortage of them) as well as another gab session, and then a look at some video and film documentaries on broadcasting, and then, the icing on the cake, so to speak--vintage humorous cartoons and short subjects you won't see on your local--or a DX station, either. For anyone who was still present and/or awake in the wee hours of Sunday morning, it was a real treat, and made a nice break after all that talk about DXing.

The club business meeting was held (too) early Sunday morning, with a few sleepy-eyed DXers present. Many suggestions were made, and will result in some changes in club policy in the future. Perhaps the most interesting one was to hold the club business meeting at the beginning of the convention from now on, when most attendees should be awake and alert.

On behalf of Jerry, we'd like to thank the following DXers who attended: Mitch Unger, Tom Yingling, Marty Siegel, Bob Foxworth, Eric Fader, George Greene, Frank Merrill, Bill Grant, Steve West, Murray Bernstein, Morrie Goldman, Dave Janowiak, Bob Seybold, Mike Reid, Marv Shults, Dave Nieman, Robert Goodman, Phil Sullivan, Steve Sprachman, Joe Fela, Richard Evans, Ralph Strobel, Joe Gragg, Bill Berg, Emil Lazarus, Mike Erhardt, Bill Fahber, Ernie Cooper, Bill McFarland, Paul Mount, Harold Hawkins, Jim Ayers, two or three unIDs (we're not kidding). If we have misspelled or lost

(article continues on page 51; photos on next page)

You ask: Where's the September column? This is a double column because my vacation ran until the end of July.  
The 1982 Es season did not meet my predictions but was not too bad. My vote for best opening goes to either AM of June 26th (162.40 wx service was Es affected) or FM of 11 July (CJON-6 St. Johns, NF followed by WSTM-3 at only 335 miles!).  
George Rogers, Chickamauga, GA called asking for station addresses. First, WOI-TV is in Ames, not Des Moines. WTOM is a satellite of WFRN. And second: you don't really need the address to write the station. Just use the call letters, the station type (television or radio), the city and the state.  
I hope the E-skip season was good to you this year.

73 & gud DX de N8DZY.

Western TV DX (continued from page 38)

October 1982

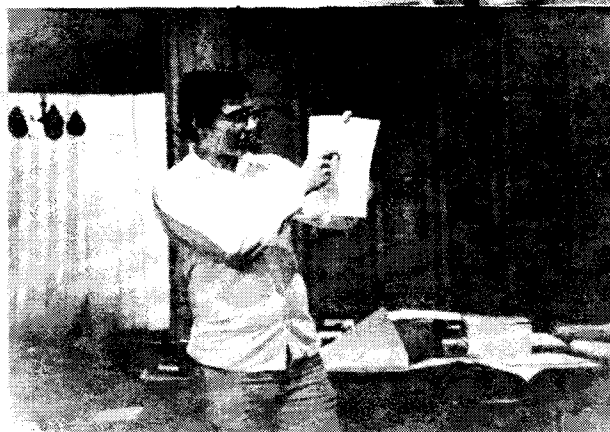
<u>Fred McCormack (continued)</u>	27 Es 0951 KATU 2 OR 1240	30 tr 1931 WQRF 39 IL 490
	0953 KLEW 3(WA) 960	2007 KG2XCB 45 MN 95
August 1982 (continued)	1028 KING 5 WA 1195	2200 WHA 21 WI 445
14 tr 0646 KHNE 29 NE 425	(MUF 107.7@1101 - WA)	2201 WKOW 27 WI 445
0652 KYFCT 50 MO	1102 CBUT 2 BC 1210	2227 WKART 23 MI
(3/4 CB rel mx )	30 tr 1915 A major tropo	2232 WNDUT 16 IN
17 Es 2058 unid ch 2 se NBC	opening to MI	WHMET 46 IN
18 tr 0535 KTSBt 27 KS	and WI in pro-	2259 K48AO 48 MN 100
0540 KHSBt 41 MO	gress @ tune/in.	(Bemidji KBJR- 6)
26 Es 2348 KBCI 2 ID 960	1927 WLRE 26 WI 460	

A nice month for tropo. Too bad I had to go to work. I left for work on the 5th with every sign indicating a continuing opening to the Detroit area. I arrived home from work on the 30th to find as strong an opening as I have seen this year in progress. It only deteriorated from that time, so I do wonder when it started. Signals were very strong with lots of color. I only ID'd a few stations as I had some errands to do. I was able to tentatively identify all of what I saw, and found the stations to all be ones previously seen with the exception of WLRE.

Well, here's hoping tropo continues in September, and I hope to receive a few more reports next month.



ABOVE & RIGHT:  
The group listens to  
one of the technical  
lectures.

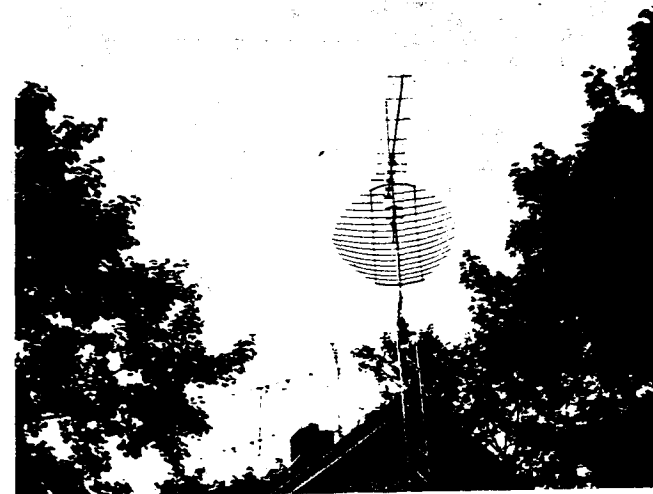


LEFT:  
Convention host  
Jerry Pulice explains  
his "Pulice chart"  
during one of the  
talks.

LEFT to RIGHT:  
Dave Janowiak,  
Morrie Goldman,  
Bill Thompson.



Jerry's house  
served as the  
meeting place on  
Friday and Sat-  
urday evenings.  
Here's a look at  
part of his  
"antenna farm."



LEFT: Joe Gragg  
offered to  
answer technical  
questions from  
DXers attending  
the convention.



RIGHT:  
Phil Sullivan.



LEFT: Steve Sprachman.

# THE STV STATION LIST

BY PHIL SULLIVAN

Ch.	Call	City	Service	Scramble System
15	KNXV	Phoenix, Ariz.	ON TV	S?
20	WXON	Detroit, Mich.	ON TV	P
21	KTXA	Ft. Worth, Tex.	ON TV	S?
22	KWHY	Los Angeles, Cal.	SelectTV	C?
24	WCGV	Milwaukee, Wis.	SelectTV	C
27	KTWS	Dallas, Tex.	Preview	Z?
27	WSMW	Worcester, Mass.	Preview	Z
30	KDML	St. Louis, Mo.		
31	WIHT	Ann Arbor, Mich.	In Home Theater	Z
			VEU	S or Z?
33	KNBN	Dallas, Tex.		
36	WATL	Atlanta, Ga.		
39	KHTV	Houston, Tex.		
41	KGCT	Tulsa, Okla.		
43	KAUT	Oklahoma City, Okla.	VIU	P?
44	WSNS	Chicago, Ill.	ON TV	S
48	KSTS	San Jose, Cal.	WHT?	P?
50	WCQR	Washington, D.C.	Super TV	Z
51	WKID	Ft. Lauderdale, Fla.	ON TV	S
52	KBSC	Corona-IA, Cal.	ON TV	S
54	WNUV	Baltimore, Md.	Super TV	Z
57	WWSG	Philadelphia, Pa.	SelectTV	S
60	WBES	W. Chicago, Ill.		S
60	WPWR	Aurora-Chicago, Ill.	Sports-vision	S
61	WCIG	Cleveland, O.	Preview	Z
64	WPTI	Cincinnati, O.	ON TV	S?
65	WREX	Vineland, N.J.	WHT	P
66	WFPN	Joliet, Ill.	Spectrum	Z
67	WSML	Smithtown, N.Y.	WHT	P
68	WQTV	Boston, Mass.	Star	P
68	WWHT	Newark, N.J.	WHT	P

This list is compiled from a variety of sources including the VUD, news articles and direct off-the-air monitoring by myself and others. It is believed to be correct for the most part but with any such new listing errors are bound to occur. Also some of the information tends to be cloaked in secrecy. Any additional information and corrections will be appreciated - especially any first hand detailed observations from those in the local areas of the stations.

Now some explanations: Column 4 ("Service") gives the name of the STV service carried. ON TV is National Subscription TV from Oak Industries; Preview is owned by Time-Life; SelectTV is American Subscription TV; WHT is Wometco Home Theater. Column 5 indicates the system used scramble the signal - it is explained further below.

The stations identified as having system "S" are using horizontal sync suppression at RF with a sine wave as the modulating (scrambling) waveform - this system is made by Oak Industries. "P" indicates another system, also at RF, that uses pulses to give horizontal sync suppression; this system is made by Elonder-Tongue. System "Z" is a baseband (video) system made by Zenith - it also uses pulses to suppress the horizontal sync and has the capability of inverting the video. System "C" is made by Clarion - and not much else is known about it, except that it appears to involve video inversion.

Systems F, S and Z all have one thing in common - they work by suppressing the horizontal sync pulses. To understand how this works recall that in a normal TV signal the sync tips correspond to the highest level of transmitted signal (100% carrier). If the signal is altered in some way to reduce the signal strength during the time of the sync pulse then these sync pulses will no longer be the strongest part of the signal. Thus they will no longer produce, as normal sync pulses do, the largest output (i.e. most negative going) from the video detector. The sync separator is designed to trigger on the most negative output from the video detector, which in a suppressed sync signal would be the darkest part of the picture instead of the sync pulses. Thus the sync circuits try to follow black cats or whatever other dark areas there are in the picture. The result is a picture that tears from side to side.

Although the picture is tearing from side to side it is often possible to recognize parts of the picture, even to identify what movie or whatever is being shown. It is certainly not what you'd want to watch for entertainment but it is often no worse than what you might expect from some DX catches. Also, characteristic of these horizontal sync suppression schemes is the structure shown in Figure 1. This, for lack of a better name, will be referred to as the suppressed sync stripe (or SSS). It consists of 3 parallel stripes, the center a dark gray to black, the outer ones a lighter gray or white. It extends across the picture from top to bottom in a zig-zag fashion. The darker part of this SSS is the actual horizontal sync and the two lighter parts are the horizontal blanking.

Now to the differences in the systems:

In the sine wave system (S) the distinguishing characteristic is that the picture itself is gradually shaded in brightness. It tends to be brighter than normal immediately adjacent to the SSS, then becoming darker as you get farther from the SSS. This is particularly easy to notice when the picture is nearly stable with the SSS nearly vertical down the center of the screen.

In both the pulse systems (P and Z) the picture shows no abnormal shading like that described for S. To differentiate between the two systems it is necessary to look at the vertical blanking interval (VBI). Before describing these differences, lets

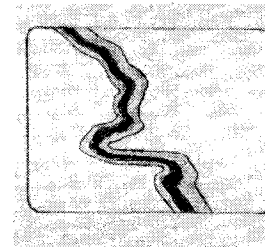


Figure 1  
Suppressed Sync  
Stripe



## The STV Station List

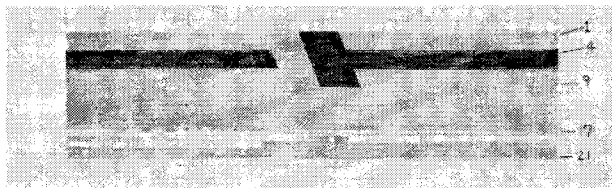


Figure 2  
Normal VBI

review the structure of a normal VBI. Figure 2 shows the VBI for a non-STV, non-teletext station. This pattern can be seen by adjusting the vertical hold to roll the picture and put the VBI on the screen, then increasing the brightness until you can see the thin black line as shown in figure 2. That thin black line is the vertical sync and is on lines 4,5 and 6. The short black bars above and below it are the equalization pulses - they are in lines 1,2,3,7,8 and 9. Nearer the bottom of the VBI is another group of lines with various test signals that appear as white and colored dots and dashes on a gray background. These are the VITS signals in lines 17 and 18 and the VIR in line 19. If the station has closed captioning it will appear as white flashes, constantly changing, in line 21.

On a station scrambling with system Z there will be an additional set of signals that will show as a series of white dashes in each of lines 10,11,12 and 13. These dashes come in two different lengths with the longer about twice the length of the shorter. There are 27 dashes per line, counting the overscan area. These dashes are the signals used to address the various decoder chips and turn them on and off. The pattern of these dashes often tends to remain the same for several seconds, or even minutes making it easy to see the individual dashes. They should not be confused with teletext signals used on some stations - teletext, in contrast to these address signals, tends to be on lines farther down (14, 15, 16) and to be constantly and rapidly changing so that the dashes blur together. Figure 3 shows a typical pattern of these address signals for the Zenith system.

Another signal found in the VBI of a station using the Z system shows as a white line in line 20. This white line usually extends about a quarter of the way across the screen at the left side but may go all the way across the screen under certain circumstances to be explained later.

Of importance to DXers trying to ID a station, those stations using the Z system transmit the address signals even during unscrambled transmissions. The only difference being that during the unscrambled transmissions the address signals are flashed on about once every 2 seconds, rather than being on continuously. Also, the short white line in line 20 is present (continuously) during unscrambled broadcasts.

As mentioned previously the Z system has the capability of inverting the video - that is dark areas appear lighter, and vice versa. Also the chrominance signal is reversed in phase relative to the burst so the result is a color negative. The inversion is on a field-by-field basis and on fields with inverted video the white line on line 20 extends across the entire screen. Although this mode is possible it appears to be rarely used - in fact several stations using the Z system appear to have abandoned it entirely after a few weeks of operation. The reason for this is unknown but may be due to difficulties in properly aligning the video levels between the two modes to avoid flickering.

Also some stations using the Z system randomly (about once every 1-3 seconds) send one field (not a full frame but only a single field) of completely normal video with full sync pulses - this causes a flash in the scrambled picture.

Turning now from the complexity of the Z system to the much simpler P system. The picture in the P system looks much like that

## The STV Station List

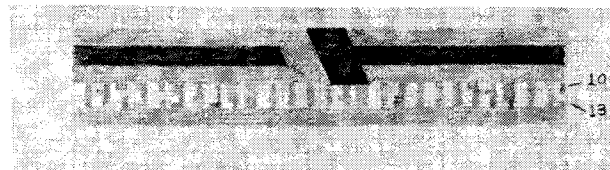


Figure 3  
Address signals  
for the Zenith  
system

of the Z system with the SSS and no shading in the picture. The difference is in the VBI - there are no extra control or address signals in the VBI of stations using the P system. In fact the VBI of such stations looks just like that of figure 2 except that the SSS continues across the VBI. By contrast, in the Z system the SSS stops at the top of the VBI and begins again a few lines below it.

Hopefully the information presented here will provide a simple way of identifying some STV stations, without requiring any special equipment or modifications to the TV set. There are other methods to distinguish between the various scramble systems, such as the method used to hide the audio, but these involve connections to the internal circuitry of the TV. If there is sufficient interest some future articles may go into more detail showing how the audio is hidden and giving an overall block diagram.

Any additional information that can help fill in the gaps and clear up the question marks in the STV station list will be appreciated and can be sent to me at the address below. However, please do not write asking for decoder circuits for these stations. All such requests will be ignored. The reason is quite simply that I do not have the time to design decoders for all the stations and then to document those designs so that someone else could build them. Even when stations are using the same systems, differences in the input and output frequencies, the need to avoid interfering frequencies within the decoder, make each station an individual design job. Also, please don't ask how your local cable system scrambles - I have no way of knowing. Suffice to say that methods that work for over the air STV will also work on cable, as will other methods that cannot be used over the air.

I will try to help identify a particular scramble method if I am sent photos, both full screen and of the VBI, and a SASE.

Phil Sullivan 935 Main St. Acton, Mass. 01720

## 1982 WTFDA CONVENTION REPORT (continued from page 45)

a few names, please remember to register properly the next time you drop by a convention.

The following door prizes were awarded: 1-year subscriptions to RADIO-ELECTRONICS (Joe Pella, Bill Grant); Perma Power Line Voltage Booster (Palph Strobel); VITEK channel 3 traps (Robert Goodman, Marv Shults); Staticide Anti-Static spray for solid-state construction projects (Bill Fahber); and a MID-CON cap (Frank Merrill). Many thanks to Morrie Goldman for organizing the drawing. Jerry Pulice also contributed surplus coax switch box assemblies, courtesy VITEK, to the rest of the group.

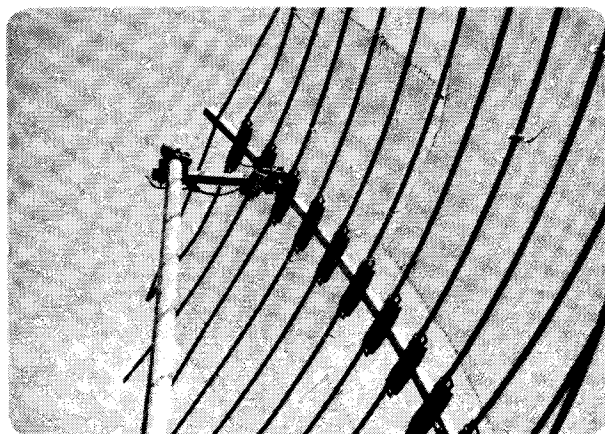
We'd like to thank Jerry Pulice for hosting the first N.Y.C. area WTFDA convention, and arranging the visit to the World Trade Center transmitter rooms. As the one-man convention "crew," Jerry was kept very busy with last minute problems, both major and minor, that frequently can keep a host from missing much of his own show!

If you'd like to host a future WTFDA convention, please contact WTFDA HQ.

TEXT: Bill Thompson. PHOTOS: Morrie Goldman

# MORE ABOUT SCREENING A 7-FOOT DISH

## ARTICLE AND PHOTOS BY STEVE WEST



These are photos of the Finco 7 foot dish with modifications (see Part 1 in May VMD, pgs 24, 25). Fourteen square feet of hardware cloth on the top half of the dish shows its effectiveness in taking the winds.

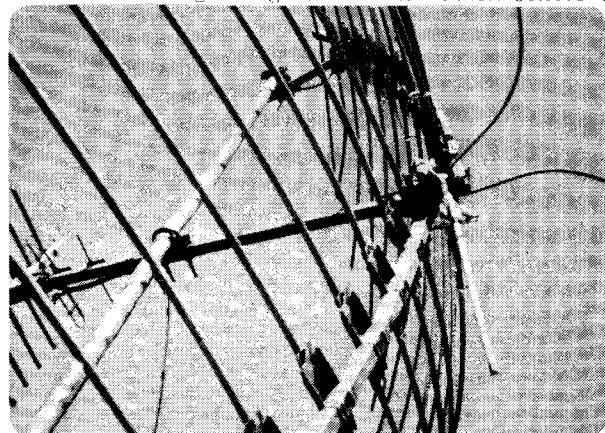
Some additional modifications to note:

(8) Tape a pair of 3 foot elements (used), each on the lower half of the dish, halfway between the circumference and the inside center of the dish. This modification will ensure the proper focal distance to the feed point.

Also, bend the tops of these two elements to prevent them from sticking to the top screening. Some hardware stores sell hollow metal tubes for plant supports--these will work for this.

(9) Tape a pair of two foot elements (used), each to one side of the lower circumference of the top half of the dish. This would prevent the upper dish elements from snagging on the lower dish screen.

(10) Another idea is to tie 30 or 40 feet of small strong rope or heavy twine to the guiding rod on the bottom center of the top half of the dish.



This loose twine would enable you to maneuver the top half of the dish from the ground in case the guiding rod was out of synch, thus effecting the sway back and the focal distance to the feed point.

These modifications were done from October through December of 1980, which was good testing weather. The dish held up fine but the trial and error of perfecting these modifications took its toll on some of its structure. The dish is now 7 years old and still works good as a "normal" unmodified dish.

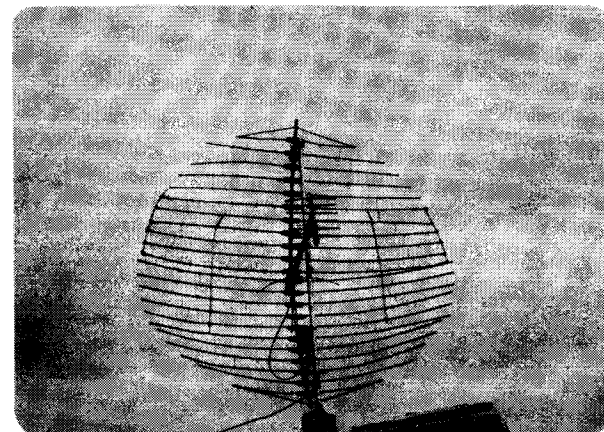
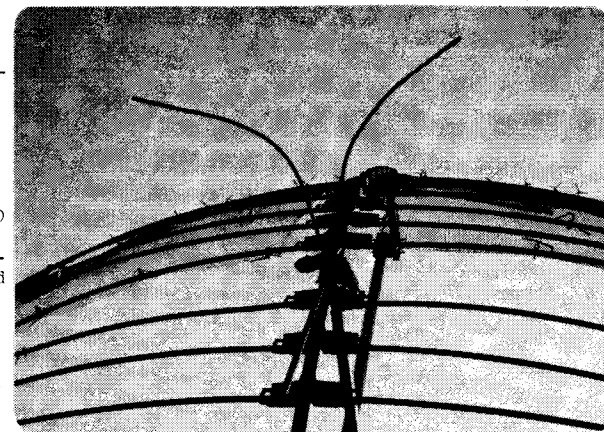
### MORE ABOUT SCREENING A 7-FOOT DISH: Modifying the Finco P-7 Parabolic Dish

In the warmer months the dish has 9 square feet of re-usable  $\frac{1}{4}$ " hardware cloth fastened at the center of the reflecting elements.

The screening is very useful in reducing signal fades, especially in scatter signals. These 10 modifications may not be practical for all installations, but any dish could use a few square feet of screening (Modification #1) to help null out locals and raise the level of distant stations.

Footnote: at this year's WFFDA convention, it was suggested to the author that  $\frac{1}{2}$ " hardware cloth might be even better for screening a dish, and is available from some hardware outlets. A big advantage would be slightly less wind loading, it would seem. Thanks to those DXers that had the idea--let us know if you have tried out the  $\frac{1}{2}$ " cloth on your dish.

Steve West  
432 Kenmore Road  
Havertown, PA 19083



COMING

SOON

IN

THE

# Vhf-Uhf DIGEST

### STV UPDATE:

SCRAMBLED SIGNALS WILL BE EVERYWHERE SOON, AND WE'LL HAVE LISTS OF PENDING STATION APPLICATIONS AND NEW STATION LICENSE GRANTS.

EXPERIMENTS WITH A HOME-BREW 12-ELEMENT FM LOG-YAGI ANTENNA

CROSSFIRE VS. QUANTUM--WHAT'S THE DIFFERENCE BETWEEN CHANNEL MASTER'S TOP-LINE VHF TV ANTENNAS?

FALL DX REPORTS

# QSL CORNER

FM-QSL's

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

- NS CKPE 94.9 Sydney, 318 Charlotte St, B1P 6K2. QSL-Card with coverage-map, with no signer in 2 weeks. Card is for CJCB-AM 1270khz. with CKPE-FM typed in, with note that it was nice that I heard them on fm. Yingling
- CI00 100.1 Halifax, Received a copy of coverage-map with message of verification on back, signed by Walter S. Labucki, CE in 2 weeks. Yingling
- PEI CRCT 96.9 Charlottetown, P. O. Box 2230, C1A 8B9. Received card, my own letter, with note from Robert Macdonald, Tech. Supervisor. This was send in a package with a CBC logo baseball type hat, and a CBC pen. This really surprized me, for it had to clear US Customs in Boston. Yingling
- CA KTPI 103.1 Tehachapi, 506 E. Tehachapi Blvd. 93561. Typed letter from George Chanbers owner, noting I was their 1st DX listener. Jefferson
- CO KRTZ 98.7 Cortex, Box XX, 925 S. Broadway, 81321. Letter from Patrick F. Talcott, CE (he forgot to sign), and also send window stickers. Jefferson
- MD WKHS 90.5 Worton, P. O. Box 905, 21678. Letter & program guide in 9 days from Keith C. Hill, GM. Nieman
- WOCO 103.9 Berlin, % P. O. Box 1850, Montego Bay Station, Ocean City, 21842. Letters, stickers, & copy of program log from Gary J. Smith, Sales Manager in 5 days. Yingling
- WLTT 94.7 Bethesda % P. O. Box 70067, Wash, DC 20088. Letter from Ellis Terry, CE in 1 week. Also send dial cars, pins. New call for WJMD. Yingling
- ND KDSU 91.9 Fargo, Ceres Hall, ND State Univ. 58105. From letter from James R. Metland, CE. Letters gives some history of station. Jefferson
- OH WWST 104.5 Wooster, P. O. Box 384, 44691. Letter in 22 days from Michael J. Epler, CE. Says my report is most distant. Holbrook
- WRUW 91.1 Cleveland, 11220 Belleflower Rd. 44106. Letter from Stephen Goldman, Public Affairs, with reply in 60 days. Ross
- OK KKAJ 95.7 Ardmore, Box 488, 73401. Send back my prepared card after several follow-ups. Signer was Terry R. Hackworth, CE K5NP who says he was not working at KKAJ when I heard the station, but check of log indicates my report was indeed authentic!! (it sure takes long to get some stations to reply to report now, hey! ed) Holbrook
- KNED 101.3 McAlester, P. O. Box 1068, 74501. Letter from Lee Anderson, CE in 2 months. Yingling
- PA WMKX 95.9 Brookville, Box M, 15825. Letter in 5 days froms Don Power's. Nieman
- WFSE 88.9 Edinboro, State College, 16444. Letter & bumper-stickers in 4 weeks from Rick Gurrera, GM. Nieman
- WIKZ 95.1 Chambersburg, P. O. Box 479, 17201. Letter & bumper-stickers in 2 weeks from Bill Matthews, Program Dir. Nieman
- PR WFID 95.7 Rio Piedras, P. O. Box 20079, 00928. Letter in 4 weeks from Carola Acosta Camero, Executive V.P. Nieman
- TX KOOL 106.5 Jacksonville, Box 1648, 75766. Letter & form from Marshall Lawrence, Program Dir. in 4 days. George
- KIKK 95.7 Houston, 6306 Gulfon Dr, 77081. Letter, handwritten from Charles P. Ochs, Program Dir. in 6 days, also send bumper-stickers. George
- KEMM 92.1 Commerce, Box 1092, 75428. Letter in 9 days from Tim Hart, Program Manager with folder of various promotional items. He said my report was the first it has received since it gone on the air 12/28/81. George
- VT WCFR 93.5 Springfield, Box 800, 05156. Very nice letter from Joe Randolph, Music Director in 11 days. He says he was on the air when I heard them, and my report is the farrest in recent memory. My best verie yet! Hascall
- WY KFNB 95.9 Worland, 1340 Radio Dr. 82401. Handwritten letter from Ken Brown, Mge. (their am freq. is 1340, think maybe address is non-accidental?) Jefferson

Reporters this lima around are: John Jefferson of Pleasanton, CA (a new reporter-thanks alot); Dave Nieman of Akron, NY; Hank Holbrook of Chevy Chase, MD; Robert Ross of London, Ont.; Charles George of Dallas, TX; Dave Hascall of Fortville, IN; & the editor-me; after all I DX too! Well heres the QSLs for this month. I hope this summer skip & tropis, I get more new reporters to give the rest of the membership a view of different QSLs that have never been reported yet. After all, some stations are reported to me more then one time & I use it for another time. One member once wrote to me about not doing repeats QSLs that I get, but I don't. I feel that you would like to see your item reported just like all the others do. So, please keep up your reporting, and please do soon for the column's sake. 73s

*TSM*