

From The STAFF

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

CONVENTION TIME...As this is being prepared, late word from 1983 convention host Bob Seybold is that he's expecting a pretty large attendance at our August 5th through 7th DX gettogether at the site of a few previous conventions, Dunkirk, NY. We're hoping for a great tropo DX opening--the time of the year is ideal. Will we be meeting you at Dunkirk? If you've never attended a WTFDA club convention before, we can tell you that you can expect a great time. Many WTFDAers are also shortwave and CB DXing enthusiasts, so you can believe that the main topic of discussion will be--DXing! To top it all off, the area is such a great natural VHF-UHF DX area that you may not want to leave!

AND NEXT YEAR...It's already time to start thinking about the 1984 WTFDA convention. Interested in hosting it? Drop us a line, and we can fill you in on what's expected from a host, and how to bid for the site. You can learn more about DXing by attending one DX club convention than you can by just sitting home and reading the club bulletins--and you can learn a lot by being host of the convention, too!

SUPPLY ORDERS...A shipment of WTFDA club supplies recently arrived in Buffalo from Wisconsin. The Buffalo crew is now handling most WTFDA supplies, and a fairly large backlog of orders was passed on to us from Calumet City. By the time you read this, all orders should have been filled. However, if you have ordered club supplies in recent months and received nothing, lets hear from you as soon as possible. Proof of your original order in the form of a copy of a cancelled check is always helpful. We have cleared up most problems with mailings, and we want to make sure you receive whatever you order. Thanks go to Dave Janowiak for handling supply orders for several years, and for arranging the bulky shipment to Buffalo. We regret that we're out of certain items now; the UHF TRANSLATOR DX GUIDE, EFM, and ONDAS FM have long been out of print. We do still have several copies of the WTFDA TV STATION GUIDE 2nd edition, and back copies of the VHF-UHF DIGEST. We expect these to go fast, so order now!

ON THE COVER...It's been a while since we had a UHF TV coverage map on the VUD; many thanks to FCC TV editor Bill Fabher for this.

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TELEVISION NEWS

Bill Fabher, editor
336 Atlantic Street
Bridgeton, NJ, 08302

RETROSPECT: GOOD BYE, CHANNEL 37.

PART TWO: CHANNEL 37 IN THE UNITED STATES.

After the Region Two nations rejected the Netherlands proposal at the December, 1959, ITU Administrative Conference, the University of Illinois decided to pursue the matter further. Construction of the huge radio telescope had begun on September 3, and was well under way, and it became necessary to pressure the FCC for action on a national basis if the project were to be salvaged.

The University filed a petition with the FCC on May 6, 1960, requesting the reallocation of 608-614 MHz (television channel 37) from television broadcasting to radio astronomy. The Association of Maximum Service Telecasters expressed opposition to the petition, but support came from Cornell University, Yale, the National Academy of Sciences, and many other scientific groups. But since the FCC was already involved at the time with an inquiry into the use of the 25-890 MHz spectrum, action on the petition was considered premature, and the petition was dismissed on March 8, 1961, after lying dormant for nearly a year.

On April 11 the University of Illinois filed a petition of reconsideration with the FCC, followed by a letter requesting that the petition be considered along with the 25-890 MHz issue at hand. Although still not prepared to act on the petition, the FCC this time adopted an interim policy with regard to use of channel 37. Whenever an application would be submitted to the FCC for a construction permit to operate on channel 37, assign another channel to community as a re-

placement for channel 37. At the time, the only station authorized to operate on channel 37 was an experimental television station in Camden, New Jersey.

But a few circumstances eventually arose which made the interim policy useless. Three applications were filed for channel 37 in Paterson, New Jersey, and the FCC found out that no channel could be substituted for that channel in Paterson without violating its rules on mileage separations. The FCC knew that this would eventually happen, but hoped it could be put off as long as possible. Another factor causing the FCC to scrap the interim policy was the recently-enacted law requiring that all future television sets be manufactured with the capacity to receive UHF channels. The law was designed to give UHF stations, suffering from a lack of interest by the general public, a boost in potential audience numbers.

But the FCC was in no means about to hand over a blank check to the University of Illinois for use of channel 37. Instead, a proposed compromise was established. Firstly, that channel 37 would not be available for use by television broadcasting within a 600 mile radius until 1968. Secondly, that any channel 37 television stations operating outside that radius may not operate between midnight and 7:00 a.m. local time until 1968.

The proposed compromise was influenced partly by an article which appeared in the December, 1962 issue of Sky and Telescope, written by G. C. McVittie, one of the designers of the Vermillion River Observatory at Danville. Page 325 of that issue reads, "Normally we plan to use daylight hours for manually setting the phasing of the individual spirals. Then, during the night a scan of the desired declination will be recorded, thereby avoiding interference from the sun. Allowing for overlap of successive scans and for a few reruns when interference has spoiled the record, we expect five years will be needed to complete the survey of discrete sources in the accessible part of the sky."

Since the observatory began operation on November 9, 1962, the FCC concluded that the project should be completed before 1968.

Before making any rules, the FCC had to suggest a proposed set of rules, publish its decision and reasons for its decision, and allow a period of time for interested parties to comment. But the FCC wanted more than just comments. The FCC raised several specific questions of a technical nature, and wanted definite answers from the scientific community. On March 27, 1963, the Notice of Proposed Rule Making was published.

Response to the proposed compromise was light from the broadcasting industry. One of the applicants for channel 37 in Paterson found the compromise acceptable. The Association of Maximum Service Telecasters also favored the proposal, partly because no existing broadcasting entity was affected. But the AMST expressed opposition to the pos-



sibility of any future permanent exclusive allocation of channel 37 to radio astronomy.

But the scientific community was not at all satisfied with the FCC's proposed compromise. The American Astronomical Society, meeting in Tucson, adopted a resolution which stated, "... (the AAS) regrets that, after repeated attempts during the past several years to present the urgent needs of radio astronomy to the Federal Communications Commission, it is again necessary to point out the importance of nationwide protection of frequency bands to radio astronomy and to astronomy as a whole in the United States. The proposed local protection for 608-614 mcs... does not satisfy the overriding need for a nationwide, and eventually, for a worldwide cleared channel for radio astronomy in the UHF region of the spectrum." The U.S. National Committee of the International Scientific Radio Union told the FCC that other radio astronomy projects elsewhere in the United States would be excluded by the proposal. The University of Illinois replied that five years would not be enough time to complete the project. The Carnegie Institution stated that the lifetime of a radio telescope is greater than five years, and that there is no reason to abandon the radio telescope after the present project is completed. Several other universities had also expressed a desire to build radio telescopes.

While the radio astronomy proponents were agreed on the need for greater protection than proposed in the FCC's compromise, relatively few of them responded to the questions put forth by the FCC in the Notice of Proposed Rule Making. But the few replies received by the FCC confirmed the needs for greater protection and more time.

These answers provided a greater insight into the Danville project and its radio frequency needs. The present program would help determine flux densities of individual radio sources, accurately determine their location, thus making it possible to relate them to telescopic objects in the visible spectrum. The University also hopes to determine by this program why some galaxies are radio emitters and others aren't. The project could take as little as five years under ideal conditions, or as much as twenty years, depending on the amount of interference the observatory runs into. Radiation from the sun and weather conditions could reduce the amount of time during which the observatory could function without interference, thus delaying completion of the project. Interference could make it necessary to remap certain parts of the sky. Ideally, the telescope would be operating 24 hours a day.

While radio astronomers dismissed the possibility of interference caused by distant signals reflecting off the surface of the ECHO satellite and other artificial satellites, the Central Radio Propagation Laboratory had compiled a report entitled, "Potential Interference to the Radio Astronomy Service," which calculated that a channel 37 transmitter atop the Empire State Building in New York City with an effective radiated

power of 202 kilowatts could be detected by the Vermillion River Observatory at least 5% of the time. If the radio telescope were to be directed at the moon it would be able to detect reflected earth-based signals.

Spanish International Television Company, the applicant which originally supported the FCC's proposed compromise, raised objections to the CPRL report, contending that the observatory would never detect interference from their proposed television station. It also objected to the comment by the University of Illinois that the project could take as long as twenty years to complete.

After studying all the comments on the proposed ruling, the FCC reached its conclusions. The 600 mile radius originally proposed would not be sufficient. Therefore protection would be afforded on a nationwide basis. Also, the FCC was convinced that five years would not be enough time, so the protection would be extended until 1974. Footnote NG48 (non-government) was added to the table of frequency allocations, reading, "Stations in the broadcasting service will not be authorized in the band 608-614 Mc/s prior to January 1, 1974. In the interim the band is available for use by the radio astronomy service. The radio astronomy service shall be protected from extra-band radiation only to the extent that offending stations are required to comply with the technical standards applicable to the service in which they operate."

By the time the rules were adopted another channel 37 application had been filed, this time in Melbourne, Florida. Since no other channel could be used in place of channel 37, a vacant channel in a nearby community had to be deleted and reassigned to Melbourne. The FCC ruling on channel 37's allocation to radio astronomy was adopted October 4, 1963, and was made effective as of November 15.

THE RESERVATION MADE PERMANENT

The Extraordinary Administrative Radio Conference to Allocate Frequency Bands for Space Radiocommunications Purposes (also known as the Space Conference) was to be held later that October. After the FCC acted to change the allocations table, it recommended to the Department of State that the United States delegation to the Space Conference support a similar proposal. When the Space Conference met in Geneva, Region Two nations adopted a proposal which read that channel 37 would not be available for television, but "is reserved for radio astronomy until the first Administrative Radio Conference to be held after January 1, 1974, which is competent to review this position." Such a conference was scheduled to be held in 1979. Cuba, which neither had any intentions to use channel 37, nor intends in any way to cooperate with the other Region Two nations, is exempted from this provision. Shortly after the Space Conference, when the United States adopted the proposal, the FCC replaced footnote NG48 with footnote US88 (government and non government), which carried the wording of the Space Conference.

The 1979 World Administrative Radio Conference, sponsored by the International Telecom-

munications Union, was the broadest attempt since the ITU Administrative Conference of 1959 to modify international regulations in light of changes by individual nations and technical advances. WARC-79 began on September 24, 1979, and lasted until December 6. Over 15,000 proposals, submitted by several nations, were discussed and acted upon. While this conference is better known for its decisions to expand the AM broadcast band, add frequencies to shortwave broadcast bands, and open up frequencies to direct broadcast satellites, it was at this conference that radio astronomy was proposed exclusive use of 608-614 MHz in Region Two, with the exception of Cuba. This proposal now awaits adoption by the individual nations of Region Two.

CHANNEL 37 TODAY

Spanish International Television Company was eventually granted a construction permit to operate on channel 41 in Paterson, New Jersey instead of channel 37. The station went on the air in 1968 with the call letters WXTV, and is broadcasting in Spanish.

In Africa, 606-614 MHz is allocated to radio astronomy on a permitted basis. In the rest of Region One it is allocated to radio astronomy on a secondary basis, with the provision that those nations are urged to take all practicable steps to protect radio astronomy from harmful interference. The Peoples Republic of China allocated 608-614 MHz to radio astronomy on a primary basis, as did India.

The Vermillion River Observatory at Danville has recently been decommissioned. The United States Air Force is presently operating an 8.5 meter paraboloid radio telescope at Palahua Observatory in Oahu, Hawaii, which is monitoring a 2 MHz wide band centered on 610 MHz to measure color flux and radio bursts. The National Science Foundation is sponsoring a 103.8 x 21.4 meter radio telescope at the Ohio State-Wesleyan Radio Observatory, which is operating on an 8 MHz bandwidth centered on 612 MHz, used for broadband continuum mapping of the sky. The Air Force is involved in a radio telescope at the Sagamore Hill Radio Observatory in Hamilton, Massachusetts, used for routine solar observations. The University of Massachusetts operates a 14 meter paraboloid radio telescope at the Five College Radio Astronomy Observatory in New Salem, which observes continuum spectra for planetary, galactic, and extra-galactic sources within the 606-614 MHz band. Harvard University operates a 26 meter paraboloid radio telescope which monitors varying bandwidths centered on 606 MHz to study continuum spectra for extragalactic sources.

Observations on frequencies from 610-612 MHz are also being done at the Australian National Radio Astronomy Observatory at Parkes, NSW, at the Humain Station in Belgium, at the Astronomical Institute, Tubingen University in Weissenau, Germany, at the Bombay University in India, at the Westerbork Radio Observatory in Hooghalen, Netherlands, and the Nuffield Radio Astronomy Laboratories at Jodrell Bank in England.

References:

- "Channel 37 or the Cosmos;" Sky and Telescope; June, 1962, pp. 307, 310.
- "Illinois' Vermillion River Observatory;" Sky and Telescope; December, 1962, pp. 323-5.
- "Radio Spectrum Allocations to Astronomy;" Sky and Telescope; February, 1964; p.85.
- "Proposed rule to protect Illinois observatory;" Broadcasting; April 1, 1963.
- "600 miles too short, 5 years too little;" Broadcasting; May 6, 1963; p. 66.
- Science; November 15, 1963; p. 941
- Federal Register; April 3, 1963; pp.3211-12.
- Federal Register; October 11, 1963, pp. 10915-10920.
- Federal Register; June 10, 1975; pp.23728-9.
- List of Radio and Radar Astronomy Observatories, March 1, 1983; Committee on Radio Frequencies, National Academy of Sciences, National Academy of Engineering.
- Notice of Proposed Rule Making, General Docket 20-739, Amendment of Part 2 of the Commission's Rules Regarding Implementation of the Final Acts of the World Administrative Radio Conference, Geneva, 1979.
- I would also like to express appreciation to G. W. Swenson, Jr., head of the Department of Electrical Engineering at the University of Illinois at Urbana-Champaign, Mr. Richard Y. Dow of the Committee on Radio Frequencies, National Research Council, and Mr. Hein Hvatum of the National Radio Astronomy Observatory for their help in providing information for this report.
- NEXT MONTH: Translators, low power boosters, and other early ideas to extend the range of television stations.

TELETEXT: WHAT TO EXPECT

On October 22, 1981, the FCC adopted a Notice of Proposed Rule Making to consider authorizing television stations to engage in teletext services. Perhaps the most controversial part of the document was the FCC's reluctance to make a decision on any particular standard, despite the insistence by Teldon, CBS, and other proponents of the North American Broadcast Teletext Specification, to do so.

In its Report and Order, adopted March 31, 1983, the FCC established its rules, authorizing teletext services, and denying a CBS request that a single technical system (the NABTS system, specifically) be established.

The most important factor in the Report and Order can be described in one word: definition. By now, nearly everybody has a good idea of what teletext is, but the adoption of a legal definition will determine the course that teletext will take in the future.

The FCC, in order to provide the widest range of services possible, decided to define teletext in very general terms. By defining it as, "a data system for the transmission of textual and graphic information intended for display on viewing screens," teletext may be related to the television station's normal programming, such as captioning or bilingual services. It may also be totally unrelated to broadcast programs and permit such services as point-to-point or point-to-multipoint

services. Non-display data could be used for audible signals or control of printers for hard copy items, and data storage devices for subsequent use of the teletext data.

This broad definition would allow stations to serve the public at large, special interest groups, organizations, or persons. They may allow operations on a subscription basis, or advertiser-supported. They may operate as a franchise or lease space to multiple users. Stations will be permitted to initiate or terminate teletext service without notifying the FCC.

Although the Canadian government narrowed teletext down to Telidon standards, it still has the potential for expanded uses as has been proposed by the FCC. But the FCC feels that, by allowing for competition between the advocates of different standards, there will be a tendency to develop potential uses of teletext.

This open environment policy toward teletext regulation is also based on the FCC's proposal to treat teletext as an ancillary service, or not the primary service of the broadcast station.

This environment meant that licensees may exercise their own judgement on the types of service to be provided (news, weather, business, etc.).

One issue raised by the FCC was whether or not public educational stations should be allowed to offer teletext services on a profit making basis. There was no opposition raised by any of the responses sent to the FCC. Public broadcasting stations have been suffering from federal budget cuts, and some educational stations are presently experimenting with commercial advertising as a means of alternate funding. The Communications Act's only restriction is that the offering of services for remuneration "shall not interfere with the provision of public telecommunications services." The FCC feels that this would not apply to teletext activities for profit.

The hottest issue, of course, is the FCC's proposal to use the open market approach in not selecting any particular system. There are two basic systems being advocated in the United States. The open market is favored by such advocates as Zenith Radio Corp., The Association of Maximum Service Telecasters, United Kingdom Teletext Industry Group, and Field Communications Corp. Those advocating a single system (Theirs, of course) are ABC, CBS, NBC, Telidon Videotex Systems, Antiope and Telematics Corp. and WGBH Educational Foundation. The open market approach is supported by advocates of the British system, while the single system plan is advocated by supporters of Antiope, Telidon, and the North American Broadcast Teletext Specification.

CBS, arguing for a single system, argues that manufacturers would be hesitant to manufacture receivers with teletext decoders, and that television stations would be reluctant to invest in teletext equipment and resources. Open market proponents argue that it would

take several years to resolve pertinent issues and to conduct an associated rule making proceeding. Also, a delay in authorization would result in competitive harm to broadcasters because cable and telephone systems are now planning teletext and videotext services in the open market, uninhibited by regulatory proceeding or mandated standards.

Several commenters were concerned that Line 21 decoders will become obsolete if broadcasters are given the freedom to use line 21 for teletext. Also, if captions are transmitted by teletext instead of line 21, those decoders will become obsolete. The FCC replied that most broadcasters do not intend to use line 21 for teletext, but decided anyway to hold off on opening line 21 to teletext for about five years before making any decision.

The FCC originally proposed a pulse amplitude standard of 100 IRE Units. But PBS in its experiments found this sometimes caused a buzzing sound. Instead, PBS suggested that 80 IRE Units would be preferred. CBS advocated 70 IRE Units. In its final rules, the FCC set a maximum of 80 IRE Units.

Under FCC rules, line 21 decoders must give way to visual emergency messages. The FCC proposed that this rule also apply to teletext. Response to this was almost unanimous, and this was adopted into the FCC's rules.

Another hot issue is whether or not cable companies carrying a broadcast station which uses teletext, must carry that teletext signal as well. The FCC made no proposal in its Notice. Advocates of mandatory carriage argued that (1) the viability of teletext requires full access to its potential audience, (2) the VBI should remain under the control of the station licensees, and (3) cable viewers might lose access to program-related teletext such as closed captions. But because of the ancillary nature of teletext, the FCC does not consider it as similar to the other services which in the past the FCC had afforded mandatory carriage. Therefore cable systems are not required to carry teletext.

Presently lines 5-18 and 20 are opened up to teletext with a maximum of 80 IRE Units. Line 14 is also available, but only with a maximum of 40 IRE Units. In 1988, Lines 10-13 will also be made available to teletext, but not with more than 50 to 70 IRE Units.

For further information, the FCC's Report and Order was published in the 6/13/83 Federal Register, pages 27054-27072.

As a late note, NBC began its teletext service, using the NABTS standard, on May 16. It consists of an 80-page magazine format, using only three of the six lines authorized by the FCC. The other three lines are left for any affiliates that wish to initiate their own teletext service along with NBC's. Decoders should be available by next spring. Costs have been estimated at \$250 to \$300.

DIRECT BROADCAST SATELLITE UPDATE

RARC-83 is now under way. The United States is hoping to get eight orbital slots, two in each time zone for the 48 contiguous states. Canada wants six: one for each time zone. Mexico wants two slots. France wants one orbital slot to cover two islands which it owns off the Canadian coast: Miquelon and St. Pierre, both off the southern coast of Newfoundland. The technical parameters proposed by the United States should be able to provide enough orbital slots and channels for everybody. But Canada's proposed technical parameters call for less signal strength and larger receiving dish antennas, as well as greater co-channel protection ratios.

Despite attempts to resolve differences, the United States and Canada still disagree on technical parameters.

Another problem arose prior to the beginning of the conference. The United States plans to propose a flexible approach, allowing countries to gain additional channels in later years where needed. But Costa Rica and eight other Latin American countries got together and proposed an equal opportunity plan, whereby each nation, regardless of size, population, or plans for DBS, will receive equal shares of available channels.

As the conference began, other problems arose. There was disagreement on how the 12.1-12.3 band should be split (the latter portion to be designated for DBS). The planning committee of the conference advocated the United States proposal of 12.2 GHz, but the conference will consider changing that if it seems any country will receive less than four channels. Originally there was a total of 1,138 channels being sought by all of the countries at the conference, but now that figure has risen to 2,974.

INTERNATIONAL TELEVISION SCENE

Some months ago, I mailed requests for information and International Reply Coupons to several Central American and Caribbean countries, both French and English. So far the only reply came from Trinidad & Tobago. So here it is from Trinidad & Tobago Television Co., Ltd. ("tvt")

TRANSMISSION FACILITIES: There is one commercial television station in Trinidad and Tobago owned by the Government of Trinidad and Tobago, and operated by tvt on 525-line standard. tvt was inaugurated in November, 1962, and is financed entirely out of advertising revenue. It operates on a magazine format and sells advertisements in the breaks between and during programs. Transmissions are on channels 2 and 13, the latter serving Port of Spain mainly. It is estimated that 95% of all homes are in the Grade A service area. A second program network transmission using VHF channel 9 and UHF channel 14 will be inaugurated later this year.

RECEIVERS:
about 300,000+



there are receivers.

Any standard 525-line receiver will operate satisfactorily in Trinidad and Tobago. In 1975 color television was introduced. At present tvt is full color capable.

PROGRAMMING: tvt is on the air approximately 90 hours a week.

FILM IMPORTS: There are no restrictions on the importation of films for television.

CENSORSHIP: Television films are not subject to censorship.

DUBBING AND SUBTITLING: The language of Trinidad and Tobago is English, and dubbing and subtitles are therefore unnecessary.

LOCAL PRODUCTION: tvt is geared for the production of simple film commercials. Slides are also used extensively and can be made at the station. Local newsfilm is projected direct from the positive prints. Positive prints are made for filmed commercials. There are facilities in Trinidad for making both commercials and programs.

OUTSIDE BROADCASTS: The station has an outside broadcasts van.

MUSIC RIGHTS FEES: These are paid through the Performing Rights Society by the station. No payments are made to distributors.

The station also sent me a program schedule for the month of June. Operating hours are 8:59 a.m. to 12:00 noon and 3:39 p.m. to 12:00 or 12:30 a.m. on weekdays; 8:09 a.m. to midnight on Sunday; and 8:54 to 1:00 a.m. on Saturdays. Programming consists of a mixture of current network favorites, recent and old syndicated programs, government programs, movies, local and international sports, documentaries, cartoons. Very few religious programs, very little news, apparently no soap operas (unless they go by unfamiliar names). Only one movie each weeknight, two on Saturday. Sesame Street every weekday morning is apparently the only educational program.

The only indication of a satellite-relayed program is America's Top Ten, which they may be getting by videotape.

APPLICATIONS FOR NEW BROADCAST TELEVISION

CH	ERP	HAAT	STATE/CITY/APPLICANT
46	2887	668	MI Port Huron; Brian Haskin
35	224	592	PA Philadelphia; Community TV of Philadelphia
15	750	502	SD Rapid City; Haynes Communic's
23	4083	1042	IN Marion; Metro Program Network
26	403	1090	IA Burlington; " " "
44	5000	1423	LA Baton Rouge; Baton Rouge Channel 44 Limited Partnership
32	1000	1225	MA Greenfield; Solomon D. Atkins
32	993	1067	MA Greenfield; Greenfield Telev.
22	4083	1097	MO St. Joseph; Metro Program Net.
44	565	659	VA Danville; C. Harry Anglin
6	5.13	2509	HI Kailua-Kona; Mauna Kea Broadcsg
26	54.3	315	IA Burlington; B'ton Broadc'g Co.
28	1500	437	IA Cedar Rapids; Metro Program
27	8.13	1037	VI Christiansted; Samuel D. Elder
69	5000	1173	IA Des Moines; Des Moines TV Ltd.
41	1380	585	LA Alexandria; Cenla Broadc.Group
35	5000	822	MS Vicksburg; Matthew D. Wiggins
35	5000	727	MS Vicksburg; V'berg Broadcast'g
35	1650	480	MS Vicksburg; Frank Holifield Jr.
6	100	2000	NM Silver City; Sara Diaz Warren
5	100	441	TX Port Stockton; M&M Telecasting
44	1375	983	AL Gadsden; Anthony Jay Fant

APPLICATIONS AMENDED
 17 854 n.c. AL Tuscaloosa; Channel 17 of Tuscaloosa, Inc.
 44 n.c. 1677 CA Rancho Palos Verdes; Channel 44, Inc.
 44 n.c. 1781 CA Rancho Palos Verdes; Palos Verdes Broadcasting Company
 44 n.c. 1679 CA Rancho Palos Verdes; South Bay Broadcasting Company, Inc.
 23 1199 257 IA Ames; CMM Inc.
 35 2326 620 MS Vicksburg; Action Communic'ns

CONSTRUCTION PERMITS GRANTED BY THE FCC
 18 1196 3617 AZ Tucson; Roman Catholic Church of the Diocese of Tucson
 38 2698 1951 AR Pine Bluff; Pine Bluff Be'g.
 40 1097 340 KY Bowling Green; CMM Inc.
 19 732 500 OK Muskogee; Hasler Productions
 39 644 288 TN Greenville; Medium Rare, Inc.
 30 124 791 UT Ogden; Ogden Television, Inc.
 38 1334 1510 VA Roanoke; Vine & Branch, Inc.
 11 316 502 LA Houma; GAGO Communications
 22 90 1091 PR Mayaguez; Ana J. Plazata

APPLICATIONS DISMISSED BY THE FCC
 • Houma, Louisiana; channel 11; The Way of Life Television Network.
 • Tucson, Arizona; channel 18; Alden Communications Corporation; National Group Telecommunications of Tucson, Inc.; Tucson Telecasting, Inc.
 • Carroll, Iowa; channel 30; Television Development Association of Iowa.
 • Roanoke, Virginia; channel 38; Roanoke Family Television, Ltd.; Roanoke Media 38, Ltd.; Telecommunications Partners, Ltd.
 • Pueblo, Colorado; channel 26; Pueblo Communications, Ltd.
 • Mayaguez, Puerto Rico; channel 22; Alvarez & Escabi.

APPLICATIONS TO MODIFY CONSTRUCTION PERMITS
 36 2056 1225 OH Toledo; Toledo Telecasting
 39 5000 821 TN Murfreesboro; WFYZ
 52 156 595 OK Oklahoma City; KBSI
 40 3499 1017 SC Anderson; WAIM-TV (amended; already on the air.)

CONSTRUCTION PERMIT MODIFICATIONS GRANTED
 2 2.31 -574 HI Hilo; KOHA-TV
 23 1870 1770 MO Cape Girardeau; KBSI
 29 2864 1644 NC Wilmington; WJKA
 42 2510 1290 TX Austin; KBVO-TV
 36 2056 1225 OH Toledo; Toledo Telecasting

APPLICATIONS TO CHANGE EXISTING FACILITIES
 19 153 n.c. TX Victoria; KKIX
 5 60.3 2700 OR Medford; KOB1

FACILITIES CHANGES GRANTED BY THE FCC
 • WFAT-TV, channel 19, Johnstown, Pennsylvania. Power raised from 178 kw max/95.6 kw hor. to 2512 kw max/2041.7 kw hor.; 1194' AAT/299' AG/3199' ASL (722' higher than before); coordinates 40°10'53"/79°09'04"; TL to Pea Vine Hill, 0.35 mile south of US 30, 6 miles southeast of Ligonier. (about 16.94 miles southwest of previous transmitter site.)
 • WBBH-TV, channel 20, Fort Myers, Florida. Power raised from 630 kw max/524 kw hor. to 5000 kw max/2619 kw hor.; 1482' AAT/1518' AG/1549 ASL (530' higher); coordinates 26°49'27"/81°45'51"; TL to Route 31, 2.3 miles south of Tucker's Corner. (about 17.68

miles NNW of previous site). Change took place June 1, 1983.
 • KPBS-TV, channel 15, San Diego, California. Power increase from 219 kw to 3000 kw max/957 kw hor.; no change in antenna height or location.
 • WOWT, channel 6, Omaha, Nebraska; 100 kw max. ERP visual (previous 1100 kw ERP visual); 1370' AAT/1343' AG/2534' ASL (15' lower than before). Don't expect any change in signal strength in this one.
 • WCFC-TV, channel 57, Plattsburgh, New York. Power increase from 562 kw max/145 kw hor to 762 kw (no longer circular polarization); No change in antenna height or location. Should be slight improvement in reception.
 • WSPJ, channel 51, Newark, Ohio. Power reduced from 126 kw to 96 kw.; 630' AAT/500' AG/1600' ASL (238' higher); coordinates 39°56'53"/82°24'33" (about 6.18 miles SSW from previous site); TL approx. 0.8 mile SSE of Jacksontown, along State Route 13, 0.3 mile north of I-70. Don't expect any change in signal strength, as reduced power will be compensated by increased antenna height.

CALL LETTER APPLICATIONS: NEW STATIONS
 CH C.L. STATE/CITY/APPLICANT
 18 KDTU AZ Tucson; Roman Catholic Church of the Diocese of Tucson
 38 WEFC VA Roanoke; Vine & Branch, Inc.
 35 WWTO-TV IL LaSalle; W.O.R.D. TV Inc.
 66 WSQY-TV NC Forest City; Forest City Telev.
 58 WUJA PR Caguas; Community Television of Caguas
 46 WCNT PR Cidra; Caribbean Broadcasters

CALL LETTER APPLICATIONS: CHANGE EXISTING
 63 WTLL VA Richmond; WRNX
 17 WXMI MI Grand Rapids; WWMA-TV
 42 WUIA-TV PR San German; WUIA-TV

CALL LETTERS ASSIGNED: NEW STATIONS
 35 KMLT-TV TX Marshall; Holt-Robinson of Texas
 39 WWTL WI Marshfield; Wisconsin Television
 16 WTJR IL Quincy; Believer's Broadcasting
 11 KCHF NM Santa Fe; Son Broadcasting
 20 WNRFP PR Ponce; Interamerican Broadcast'g

CALL LETTERS ASSIGNED: CHANGE EXISTING
 5 KCTV MO Kansas City; KCMO-TV
 13 KTNL AK Sitka; KIPW-TV
 7 WSVN FL Miami; WCKT
 39 KMGT-TV LA West Monroe; KNAN-TV



CHANGES IN STATION IDENTIFICATION GRANTED
 • KCOBY-TV, channel 11, Coos Bay, Oregon, to identify as Coos Bay-North Bend.
 • KVNJ-TV, channel 15, Fargo, North Dakota, to identify as Fargo (ND)-Moorhead (MN).

CHANGES IN THE TABLE OF CHANNEL ASSIGNMENTS
 • Dallas, Texas: add 58z

STATIONS OFF THE AIR
 • WCBE, channel 50, St. John, Indiana, from May 2, 1983 until October 31, 1983.
 • WEDB-TV, channel 40, Berlin New Hampshire.
 • WHED-TV, channel 15, Hanover, New Hampshire.

STATIONS ON THE AIR
 • WVSB-TV, channel 27, West Point, Mississippi; 2000 kw max/468 kw hor; 1680' ASL/1593' AG/2173' ASL; coordinates 33°47'40"/89°05'16"; TL 2.1 miles northwest of Woodland, on same tower as WTV, channel 9. (Engineering data has it as 3 feet higher than WTV above sea level, but 100' lower above average terrain. Must be a mistake somewhere) ABC affiliate. address: Venture Systems, Inc., Box 777, West Point, MS, 39773. Began May 29, 1983.
 • KLDH, channel 49, Topeka, Kansas, began on June 20, 1983. 3475 kw max/1042 kw horizontal (circular polarization); 1476' AAT/1439' AG/2549' ASL; coordinates 39°01'34"/95°54'58"; TL 2280 W. Union Road, Dover, Kansas; address: Mid-America Broadcasting of Topeka, 101 S.E. Monroe, Box 2229, Topeka, KS, 66601. ABC affiliate.
 • KFCC, channel 42, Concord, California, scheduled to begin sometime in mid-June, but no confirmation as yet. 1205 kw max/805 kw hor; 2772' AAT/90' AG/3590' ASL; coordinates 37°53'34"; 121°53'53"; TL north peak of Mt. Diablo; address: First Century Broadcasting, 5101 Port Chicago Highway, Concord, CA, 94524. Independent station.

CONSOLIDATED HEARINGS
 • Fairbanks, Alaska; channel 7; Arapahoe Silent Majority; Channel 7 Broadcasting.
 • Flint, Michigan; channel 66; Flint Family Television, Ltd; Channel 66, Ltd. (both propose more than 1000 kw within 250 miles of the Canadian border, and will need Canadian concurrence); Stanley G. Emert, Jr. (proposes use of electrical and mechanical beam tilt); F&S Comm/News, Inc.
 • Salem, Oregon; channel 32; Willamette Valley Broadcasting Company, Ltd. (more than 1000 kw within 250 miles of Canadian border); Salem Television, Inc. Due to major differences in power and antenna height, the coverage area and population to be served will be taken into account.
 • State College, Pennsylvania; channel 29; Lion Country Television; Hazleton TV Associates.
 • Virginia Beach, Virginia; channel 43; Ocean Broadcasting Corporation; Tidewater Christian Communications Corporation; Virginia Beach Television, Inc. (since the proposed city grade contour does not cover all of Virginia Beach, applicant seeks waiver of section 73.685(a)); Virginia Beach Family Television, Ltd.; Tidewater Broadcasting Company, Inc.; Atlantic Television Limited Partnership; Brian J. Friedman; Summit Communications, Inc.

RESULTS OF CONSOLIDATED HEARINGS
 • Corpus Christi, Texas; channel 38; dismissed application by Christian Children's Network because it was financially unqualified; granted construction permit to Coastal Bend Family Television, Inc.

NETWORK CHANGES
 • Green Bay, Wisconsin; WFRV, channel 5 from NBC to ABC and WLUX, channel 11 from ABC to NBC, effective April 18, 1983 (from Bill Draeb).
 • KTVL, channel 27, Medford, Oregon, primarily CBS and secondarily NBC, will drop NBC.
 • WDAY, channel 6, Fargo, North Dakota, to change from NBC to ABC on August 22, 1983.

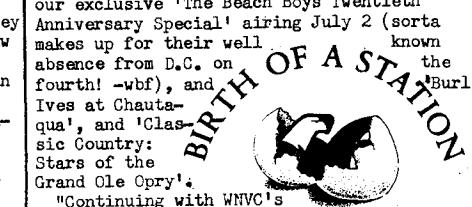
INSIGHTS ON NEW STATIONS
 • WNVN, channel 56 in Fairfax, Virginia, sent me some information on itself. A news release describes its programming. "Viewers in the metropolitan area can now see live coverage of Congress, Congressional hearings, daily State Department briefings, Virginia State Legislative Government



in hearings and debate, local boards of Supervisors, and City Councils in sessions. "From this programming, WNVN currently produces 'Washington Report, the Week' with host Bruce Miller. A 30 minute Washington events news review program, it is carried by many public television stations in the Southern and Pacific Mountain broadcast systems. 'Congressional One Minutes' is a presentation of one minute speeches members of the House make each day on any issue facing Congress or their Congressional district. 'Capitolink' will be a program concept linking the capitols of Richmond, Washington, DC, and Annapolis.

"A scheduled blend of weekend programs from cultural and classical music, sports, movie classics, informative 'how to' programs, discussion and call-in shows, provide a level of information and entertainment to the executive level viewer that makes up our market demographics. Of special interest is our exclusive 'The Beach Boys Twentieth Anniversary Special' airing July 2 (sorta makes up for their well known absence from D.C. on the fourth! -wbf), and 'Ives at Chautauqua', and 'Classical Country: Stars of the Grand Ole Opry'.

"Continuing with WNVN's philosophy of a TELEVISION STATION SERVING THE PUBLIC, there are personal and corporate opportunities to become involved with Channel 56...golf tournaments, softball games, TV Auctions (gotta have them, you understand! -wbf), fashion shows, membership drives, guide advertising, and much more." WNVN is owned by Central Virginia Educational Television Corporation, which also



owns WTVT, channel 53 in Goldvein, Virginia. When W14AA, the Annandale translator also owned by Central Virginia Educational Television Corp., was in operation, the FCC gave special approval to broadcast live congressional hearings. But the future birth of WNBC meant that W14AA would no longer be needed. But WNBC also meant the end of KA2XEH, the Spanish translator in Washington. W14AA was sold to Los Cezeros Broadcasting Company, which owned KA2XEH. KA2XEH is now operating on channel 14. Despite earlier reports, WTVT did not go off the air. It is still on. WNBC, channel 56, is not a PBS affiliate, and does not duplicate programming of WTVT.

• WMKW-TV, channel 30 in Memphis, Tennessee, also sent some material. It is owned by Television Corporation of Memphis, a subsidiary of TVX, the Television Corporation, which also owns WTVZ, channel 33 in Norfolk, Virginia, WRLH-TV, channel 35 in Richmond, and WJTM in Winston-Salem, North Carolina. All four have similar logos: channel number in an omega-shaped figure with the call letters underneath. One press release gives some insight into its programming.



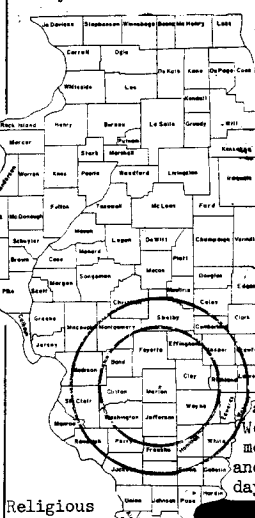
"We are here to provide a fresh, new alternative to what is currently available on TV in the Memphis area. We will be airing strong, off-network syndication, and a variety of first-run and classic movies with a unique presentation. We are also exploring the area of sports.... We are introducing a circularly polarized antenna which will allow WMKW to broadcast on a vertical as well as a horizontal plane and will deliver a ghost-free picture." "With Channel 30's two and one-half million watts of power and our circularly polarized signal, we believe viewers will be quite impressed with the quality of our picture as well as our programs." "The WMKW, Channel 30 offices will be located at 2876 Directors Cove in Memphis, with the transmitter site at 7196 Raleigh-LaGrange Road, where WMKW will share WKNO-TV's tower."

WMKW has exclusive rights to broadcast Metro Conference Basketball, beginning with the 1983-1984 season. This will be the station's only sports involvement this year, but other areas of sports are hoped for in future years. Over one third of the broadcast schedule is devoted to movies, with emphasis toward movies not previously seen in syndication in the Memphis market, and many classics. WMKW has purchased the rights to over 1500 films and is presently negotiating for more. Over 25 hours of movies are planned weekly.

A press release promoting children's programming begins with "You're never too young to turn 30." While presenting a list of children's programs, the moral and educational value of certain ones are stressed, but it looks to me as if the majority of them are the usual diet of violence and stupidity. Actually, their weekly schedule seems to be

nearly all movies and kiddie shows. At least one redeeming factor: two episodes of Twilight zone each weeknight. (WTVZ shows four consecutive episodes on Saturday nights) Sunday morning consists of four consecutive movies all day, and religious programs in the evening. The only news consists of two Newsbreaks, of two minutes each (30 seconds of which are commercials) in the evening. A coverage map provided by the station appears on the cover of this month's VUD.

• WCEE-TV, channel 13 in Mount Vernon, Illinois, describes its coverage area as rather unlike that of most stations. "The area of Southern Illinois spreads over the lower third of the state. Our signal reaches from Missouri on the west, to Indiana on the east; Mount Vernon is located 70 miles east of downtown St. Louis. Southern Illinois is an entity unto itself, unlike a metropolitan city, Southern Illinois is a "disbursed community" made up of many small towns few over 25,000 with the exception of the St. Louis area. Yet this massive 30 county area is a single community linked together by political apportionment and high school athletics." "WCEE-TV is a "drop-in" station and does not belong to any of the five surrounding markets of St. Louis, Mo., Paducah, Ky, Terre Haute or Evansville, Ind. and Springfield Illinois. However C-13 reaches exclusively Illinoisans who have, in the past,



Religious programs on Sunday morning and evening. Syndicated programs from old network series, and I mean old. None of them are recent. But at least Twilight Zone is on each weeknight.



MT. VERNON, ILLINOIS

been carved up into the various outside states home area markets."

WCEE-TV transmits from a 1550 foot high tower north of Mount Vernon, with 302 kw.

As far as programming, WCEE-TV is an independent station, heavy on news (CNN and INN each twice daily, and a half hour of local news in the evening.) Many of the satellite-relayed syndicates are on the schedule.

Would you believe no movies on weekdays, and only one on Saturday and one on Sunday?

According to a news clipping sent by WCEE, their two transmitters were the ones used by WNET, channel 13 in New York City, when it transmitted from the top of the Empire State Building. When WNET moved to the World Trade Center, new equipment was installed.

According to another clipping, the station adopted a slogan, "Have we got news for you!" Licensee and sole stockholder William Varecha promises to eventually have 50 half hours of news each week, including financial and agricultural news. WCEE will make no attempt to provide out-of-state news, excepting a possible summary of St. Louis news for Metro-East listeners. WCEE will be the first television station in the southern half of Illinois to serve exclusively Illinois viewers.

As reported a few paragraphs back, WCEE-TV falls between five different commercial market areas. And this has caused problems for its sports lineup. Before the station went on the air, Varecha attempted to get permission to play St. Louis Cardinals baseball games, but was turned down. He did manage to get a deal with the Chicago White Sox and Chicago Cubs. After having five White Sox games already aired on WCEE-TV, the Cardinals talked the White Sox into changing their mind on the agreement. Since no contract was ever signed, they could tell WCEE-TV to stop. The reason the Cardinals didn't want WCEE-TV playing Chicago teams was that they were overstepping their marketing boundaries, and could cut into the Cardinals' audiences; The Cardinals looked at WCEE-TV as being on the edge of the St. Louis ADI (area of dominant influence). The Cardinals didn't want their own games on WCEE-TV because they already have excellent coverage in the St. Louis ADI with four television stations already carrying them. The White Sox agreed to discontinue with WCEE-TV because it is in a fringe area. The Chicago cubs did sign a contract with WCEE-TV, so those games will continue for the time being to be broadcast.

FORUM

Ron Purdue reports the discovery of yet another black hole. This one is somewhere in the Byron, Minnesota Post Office. He also says that KTMA-TV, channel 23 in the Twin Cities is also playing ON-TV movies as well as spectrum. They are on more hours with only about 20,000 subscribers. He also says that with the cities now being wired up for cable television, that it may become a conventional broadcast station by mid-1984. Time will tell. KXLI-TV, channel 41 in St. Cloud now have more local commercials and religious specials. No science fiction programs (except for movies); not even Star Trek, which Ron hopes they would carry. (But do they have Twilight Zone? Even the University of North Carolina's educational television stations have Twilight Zone!) Ron also asks about the channel 45 petition for assignment in the Twin Cities. No news yet, and it may be years before anything happens on that.

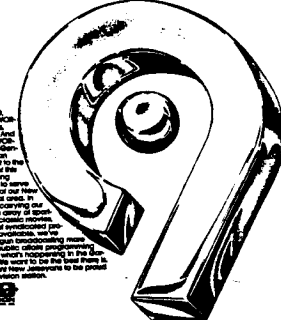
Maybe Bill Draeb should investigate the possibility of a black hole at his local

post office. One letter dated June 17 was postmarked June 21, and the other, dated back on April 19 was postmarked June 28. The 4/19 letter stated that yesterday (4/18) WFRV, channel 5 in Green Bay switched to ABC and WLUK, channel 11, switched to NBC. He also adds to that channel 47 translator which I suggested could be Iron Mountain. Instead of relaying KTBN, channel 40, Bill is getting in "The Movie Channel." At this point, I can't really be sure just what translator it is. I'm hoping to update the list of translators and low power stations. It's been eight months since the last list.

George Mileon reports on WQTV, channel 68 in Boston. Since STAR subscription service folded last February WQTV had been broadcasting Financial News Network from 9 to 5. From 5 p.m. to midnight, there's a steady promotion of PREVIEW, carried by channel 27. A reliable source told George that WQTV will eventually use channel 27's Zenith scrambling mode and broadcast a sort of second PREVIEW service, going heavy on sports and pornography. WSTG, channel 64 in Providence, Rhode Island, is still transmitting a few hours during the day, with still no STV service. I suspect that they're still trying to get a contract with a STV dealer, and until then doesn't want to invest in any syndicated programs. I suspect that the STV competition in that area may be too big for any STV service to tackle.

Fred McCormack sent an article from the 6/18/83 Fargo Forum about WDAY, channel 6 in Fargo, will be switching from NBC to ABC this summer. The present ABC affiliate is KTHI-TV, channel 11. The owners of WDAY are planning to construct television stations in Minot and Bismarck, which do not have any ABC affiliate. These two stations will be satellites of WDAY at first, but will later incorporate local programming.

The station on the move.



WOR-TV secaucus, nj

As of April 28, 1983, WOR-TV, Secaucus, NJ, is now a full power station. The station is currently operating on channel 9. The station is currently operating on channel 9. The station is currently operating on channel 9.

DX ANTENNA

UHF PRE-AMP & SIG. EXTRACTOR

PRODUCT REPORT ON THE DX ANTENNA MODEL EU-4S UHF PRE-AMP & POWER SUPPLY AND P-922 SIGNAL EXTRACTOR

IN MORE THAN 20 YEARS OF DX'ING, VERY FEW ITEMS OF SUPPORT EQUIPMENT HAVE GENERATED MUCH EXCITEMENT IN ME UNTIL NOW. THE DX ANTENNA EU-4S UHF TELEVISION PRE-AMP HAS DONE IT. UPON RECEIVING THE EU-4S AND THREE P-922's (TUNED FOR CHS. 28, 47, & 67) IT WAS INSTALLED ON A CHANNEL MASTER 6 FT. UHF DISH ANTENNA AT 55 FT. ABOVE GROUND WITH A DOWN LEAD CABLE RUN OF 110 FT. OF QUALITY RG-59 (LARGE DIAMETER CENTER CONDUCTOR). INSTALLED AT THE ANTENNA FEED WAS A P-922 FOR CH. 28. THE P-922 IS A MATCHING TRANSFORMER THAT REALLY WORKS! TRANSFORMER ACTION OF UP TO A 700% INCREASE TO PRE-AMP INPUT IS CLAIMED FOR WHATEVER CHANNEL THE P-922 IS TUNED FOR--IT APPEARS TO PERFORM TO THIS CLAIM. THIS "DX" INSTALLATION WILL BE REFERRED TO AS SYSTEM 1.

THE EU-4S IS RATED AT 36-39 db GAIN MINIMUM TO 42-44 db GAIN NOMINAL WITH 53 db GAIN MAXIMUM. NOISE FIGURES ARE JUST AS IMPRESSIVE, 2.4-2.7 db MAXIMUM. THESE FIGURES ARE NOT EXAGGERATED.

FOR COMPARISON, A FINCO P-7 7 FT. UHF DISH ANTENNA AT 70 FT. ABOVE GROUND WITH A 140 FT. RUN OF CABLE OF THE SAME TYPE AS SYSTEM 1 AND A WINEGARD AC-4990 UHF PRE-AMP WAS USED. WINEGARD CLAIMS A 17 db GAIN WITH A 2.2 db NOISE FIGURE (ACTUALLY ABOUT 8 db NOISE IN THE TRANSLATOR CHANNELS). THIS INSTALLATION WILL BE REFERRED TO AS SYSTEM 2.

SO, YOU CAN SEE THAT SYSTEM 1 IS AT A GREATER DISADVANTAGE THAN SYSTEM 2, WHICH HAS A LARGER ANTENNA AND TWICE THE HEIGHT. THE TERRAIN IN THIS PART OF NEW MEXICO IS FLAT WITH NO OBSTRUCTIONS.

THE TELEVISION USED IS AN OLDER (7 YEARS) MAGNAVOX 19 INCH COLOR PORTABLE, NOTHING EXOTIC--BELIEVE ME. NEWER TELEVISIONS ARE SAID TO HAVE IMPROVED UHF TUNERS, SO THE EU-4S WOULD WORK THAT MUCH BETTER.

VISUAL COMPARISONS WERE MADE AGAINST THE CATJ WALL CHART FOR SIGNAL COMPARISONS MEASURED IN 5 db IMPROVEMENTS.

NOW, FOR THOSE COMPARISONS. THE FIRST CHANNEL ATTEMPTED WITH SYSTEM 2 WAS KGSW CH. 14 IN ALBUQUERQUE AT 240 MILES DISTANT. WHAT WAS SEEN WAS A WEAK FRAME PICTURE WITH FADING SIGNALS AND NO TRACE OF SOUND. SYSTEM 1 WAS SWITCHED ON AND A WATCHABLE PICTURE WITH SOME SNOW (BREAKING INTO COLOR AT TIMES) AND PERFECT SOUND--A MINIMUM 15 db INCREASE (FADING WASN'T NOTICED). NEXT, KNAT-23 FROM ALBUQUERQUE WITH NO SIGNAL PRESENT ON SYSTEM 2 AND A WATCHABLE (THOUGH WEAK) PICTURE ON SYSTEM 1 WITH SLIGHTLY NOISY SOUND AND NO FADING--ALSO A 15 db INCREASE. THEN ON TO A TOUGH ONE--K58AH (100 WATTS) TRANSLATOR IN RUIDOSO, N.M. (REPEATING KOAT-7 ALB.). SYSTEM 2 HAD NO TRACE OF IT BUT SYSTEM 1 HAD A PICTURE WITH SOME SNOW, COLOR AND PERFECT AUDIO--A 20 db INCREASE--RUIDOSO IS 145 MILES AWAY! KTAB-32 ABILENE, TX. AT 216 MILES ON SYSTEM 2 PRODUCED A "GRADE B" SIGNAL BUT SYSTEM 1 WAS OF LOCAL QUALITY. THE SAME HELD TRUE OF KMCC-28 AND KJAA-34 IN LUBBOCK, TX. AT APPROXIMATELY 100 MILES. MANY OTHER TRANSLATORS WEST AND NORTH OF THIS LOCATION WERE SEEN WITH SYSTEM 1 THAT WERE NON-EXISTANT WITH SYSTEM 2. I'M IMPRESSED! THE NEXT MORNING TROPOSPHERIC CONDITIONS PRODUCED SIGNALS FROM KTXA-21 AND KKTU-39 FROM DALLAS, TX. AT 368 MILES. THEY WERE WATCHABLE AND SEEN FOR AN HOUR (SOMETIMES BREAKING INTO COLOR) ON SYSTEM 1 WITH JUST A VAGUE HINT OF "SOMETHING THERE" ON SYSTEM 2 FOR THE MOST PART.

RESULTS LIKE THESE ARE POSSIBLE WITH ANY ANTENNA SYSTEM! WITH THE EU-4S IMPROVEMENTS LIKE THIS WILL HAPPEN--COMPARED TO ANYTHING YOU HAVE NOW (CMA SERIES, TOO).

THE POWER SUPPLY IS ATTRACTIVE AND HAS AN ON/OFF SWITCH WITH PILOT LIGHT AND CAN BE FITTED WITH A GAIN CONTROL (EXTRA OF COURSE) WHICH I RECOMMEND FOR THE SERIOUS DX'er.

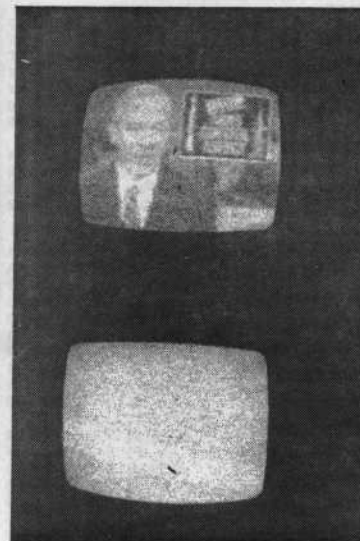
I COULD GO ON AND ON RAVING ABOUT THIS "DX" LOW NOISE AMPLIFIER. IT TRULY IS "DX" EQUIPMENT. WE'VE ALL BEEN WAITING FOR SOMETHING LIKE THIS--WELL IT'S HERE! I HOPE OTHERS WILL GET THIS PRE-AMP, SO I CAN SHARE MY EXCITEMENT. IF YOUR INTERESTED, DROP A LINE OR CALL AND I'LL TELL YOU HOW MUCH (A PLEASANT SURPRISE), HOW SOON YOU CAN GET ONE, OPTIONS AND ANY OTHER QUESTIONS.



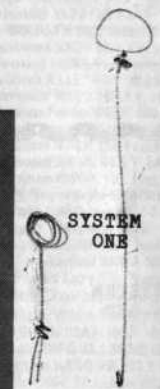
KGSW CH. 14 ALBUQUERQUE, NM
AT 240 MILES



KTAB CH. 32 ABILENE, TX
AT 216 MILES



K58AH TRANSLATOR, RUIDOSO, NM
AT 145 MILES



K65BT TRANSLATOR

FC Series
HIGH GAIN & LOW NOISE
WIDE BAND ANTENNA BOOSTER
EU-4S
 For UHF TV Band



***FEATURES**

By built-in low noise circuit, clear picture is assured even in the weak field area.
 Compact, light weight, easy handling and reinforced design by means of resin having eminent superiority in weather-resistance.

***SPECIFICATIONS**

GAIN 470 - 890 MHZ 39 - 36 db Min. 44 - 42 db Nominal

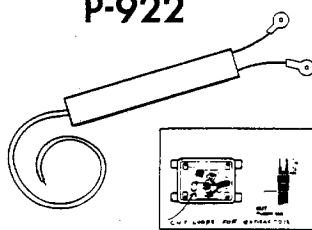
NOISE 470 - 890 MHZ 2.7 - 2.4 Max.

MAX. OUTPUT 53 db

VSWR 1.35 - 2.7

INPUT & OUTPUT IMPEDANCES 75 Ω

SIGNAL EXTRACTOR
P-922



AS YOU GO UP IN THE UHF CHANNEL SPECTRUM THE SIGNAL LOSS IN EVEN THE BEST OUTDOOR MATCHING TRANSFORMER CAN REACH 3-5 db DEPENDING ON CHANNEL.

MOST IS A RESULT OF HIGH V.S.W.R. NOT ONLY CAN THIS BE ELIMINATED BUT A TRANSFORMER ACTION CAN OCCUR RESULTING IN AN INCREASE UP TO 700% SIGNAL TO THE LNA INPUT.

WARNING: The EU-4S is not recommended in very strong signal areas (2 or more Megawatt--or more--stations 30 miles or less distant) as overload would be a problem. Using a 7' dish would minimize overload in some directions)

SYSTEM ONE

DX TELE LABS
 3822 NORTH PARADISE ROAD
 FLAGSTAFF, AZ 86001

SYSTEM TWO

JIM PIZZI
 P.O. BOX 1778
 LOVINGTON, N.M. 88260
 (505) 396-7561 OFFICE
 396-3432 HOME



6K707 TRANSLATOR

FM NEWS

BRUCE F. EWING, P.H.D., EDITOR
 % FM ATLAS
 KEARNEY NE 68847, USA
 CONTRIBUTIONS WELCOME!

New FM Stations Granted

AK Bethel KJBA 100.1 3000 h.v.; 76'
 AK Naknek 100.9 3000 h.v.; 300'
 AZ Oracle 103.1 370 h.v.; 740'
 AR Huntsville KRRA 95.9 -----
 AR Newark KLLN *90.9 100000; 500'; Schools
 CA Modesto *88.7 Spanish-English 2100 h.v.; 2040'; Radio Bilingue
 CA Tahoe City 96.5 1000 h.v.; 2870'
 CO Snowmass Village 103.9 3000 h.v.; -84'
 FL New Port Richey *91.7 3000 h.v.; 180'
 ID Weiser 100.9 3000 h.v.; -150'
 IL Paxton 104.9 3000 h.v.; 300'; \$, talk & m-music
 IA Grundy Center 97.7 3000 h.v.; 300'; m
 KS Fort Scott 101.7 3000 h.v.; 250'
 KS Hugoton KGO1 106.7 35000 h.v.; 260'
 ME Waterville *91.3 3000 h.v.; 300'; U. of Maine
 MI Cadillac 107.1 3000 h.v.; 300'
 MN Ortonville 101.5 98000 h.v.; 1000'
 MO Louisiana 101.7 1900 h.v.; 390'
 MT Chinook 101.3 100000 h.v.; 680'
 NH Berlin 103.7 17000 h.v.; 170'; New England Broadcasting--to replace deleted WLXQ
 NC Shallotte 106.3 3000 h.v.; 300'
 ND Carrington 97.7 3000 h.v.; 150'
 ND Minot 99.9 100000 h.v.; 480'
 OH Cadiz 106.3 3000 h.v.; 260'
 OK Durant 97.7 3000 h.v.; 300'
 OK Laverne K224AU 92.7 (KSIV-FM 93.5 Woodward OK translator), \$, r; gets out "about 10 miles, with better coverage to the west."
 OK Muskogee 97.1 100000 h.v.; 1270'
 PA Emporium 92.7 1000 h.v.; 520'
 PA Puncy 103.9 910 h.v.; 500'; to be \$, r, J-103
 SD Belle Fourche KKEB 95.9 3000 h.v.; 300'
 SD Volga 102.3 3000 h.v.; 230'
 TN Henderson 95.9 3000 h.v.; 300'; rg
 TN Knoxville WZ91AA *106.1 \$ (WMBW 88.9 Chattanooga TN translator), g
 TX Crystal City 94.3 3000 h.v.; 135'
 TX Danison KZIM 104.9 2900 h.v.; 310'
 TX Groves 92.1 3000 h.v.; 300' [College
 TX Texarkana *91.5 5009 h.v.; 335'; Community /
 WA Ellensburg 103.1 3000 h.v.; -190'
 WA Grand Coulee 98.5 29000 h.v.; 48000v; 460'
 WV Miami (near Charleston) WVCM 107.1 3000 h.v.; 300'
 WY Powell 104.1 100000 h.v.; 1860'
 WY Torrington K210AF *89.9 -----
 ON Toronto CKLN *88.1 14'watts; 410'
 MEXICO Guanajuato, Gua. XHBN 101.5 L, \$
Formats/Networks
 AL Decatur WBQM - *91.7 S [AP Audio network]
 AR Lonoke KWTD 106.3 soul
 CA Nevada City KVMR *89.5 classical, Stereo
 CA San Francisco KYJU 98.7 rock (not m)
 CA San Fernando KGIL-FM 94.3 r (light r), K-94.3
 CO Fort Morgan KBRU 101.7 U
 FL Coral Gables WYOR 105.1 fm
 FL Orlando WUCF *89.9 now all rock [r]
 FL Tampa WRBQ-FM 104.7 ABC-FM (was RKO)
 GA Savannah WEAS-FM 93.1 soul (not k), no SCA
 WZAT 102.1 Y (ABC Contemp.), from A
 GA Newnan WRNG 96.7 fm--rock & middle/road
 IL Crete WTAS 102.3 m--middle of the road
 IL Waukegan WGFA-FM 94.1 mk
 IL Woodstock WXRJ 105.5 fm, X-105
 IN Danville WGRT 107.1 rock
 IN Elkhart WVPE *88.1 jp, "Jazz 88" at times
 IN Frankfort WSHW 99.7 fm
 IN Indianapolis WAJC *104.5 cj
 IN Knox WKVI-FM 99.3 k[country]
 IN Lowell WZVN 107.1 nr
 IN Monticello WWET 95.3 r, "Hot 95-FM"
 IN Plymouth WNEZ 94.3 rock
 IN Rochester WROI 92.1 km
 IN South Bend WNDU-FM 92.9 The Source network
 IN Terre Haute WVTS 100.7 all rock, no gospel
 IN Warsaw WRSW-FM 107.3 some Spanish

IA Cedar Rapids KOJC *89.7 sg (soul and gospel)
 IA Sioux Center KVDB-FM 94.3 beautiful, AP Audio (S)
 KY Owensboro WKWC *90.3 gospel
 ME Brunswick WCLZ 98.9 rock and middle of the road
 MD Hagerstown WXCS 106.9 rp, still "107-X."
 MD Prince Frederick WMJS 92.7 kr (rock Sat. and Sun.)
 MA Brookline WBOS 92.9 pr
 MA Greenfield WRSI 95.3 progressive rock
 MA Lynn WFNX 101.7 pr
 MI Caro WKYO-FM 104.9 k[country]
 MI Escanaba WYKX 104.7 k, "KX104" (not strict), 1M
 MN Austin KAVT-FM *91.3 mc
 MN Duluth KDNW *90.5 UPI Audio
 MS Columbus WJWF 103.1 gm, still with 1M SCA
 MO Kansas City KXTR 96.5 RKO [market
 NE Blair KBWH 106.3 now soul--going after Omaha /
 NE Nebraska City KNCY-FM; 97.7 Mutual
 NM Bayard KLCJ 92.7 rock
 NY Albany WPKX 106.5 rp
 NY Bath WCIC 103.1 commercial, no *
 NY Wethersfield WUVU 107.7 pr (album rock)
 NY Woodstock WDST 100.1 rock and jazz
 NC Durham WDBS 107.1 beautiful (no dual ID)
 NC Raleigh WCPE *89.7 now all classical
 OR Lincoln City KCRF 96.7 fm
 OR Medford KTMF 93.7 rock (not b), SCA has music; also affects its translators in OR and CA)
 OR Portland KUPL-FM 98.5 beautiful music
 OR The Dalles KCIV 104.5 now rock
 PA Pittsburgh WDSY 107.9 all k, no rock
 SC Goose Creek WBXJ 94.3 gospel
 SC Greenville VLFJ *89.3 S [AP Audio]; S network also on WNUJ-FM 94.5 Greenville SC.
 SD Deadwood KSQY 95.1 T (The Source)
 TN Cleveland WONE 95.3 S network [96.
 TX Lubbock KLLL-FM *96.3 S (not NBC), Stereo FM /
 VA Berryville WWO 105.5 k, now "Country - 105"
 VA Manassas-Fairfax WEZR 106.7 fm (seeks permission to move transmitter to Merrifield VA)
 MD Baltimore WRLX 106.5 rock (seeks new call letters)
 VA Richmond WRVQ 94.5 Y (ABC Contemporary-X-T)
 VA Warrenton WWWW 107.7 fm, local, programmed, after a fling with the SMN/Starstation network.
 WI Delafield WHAD (and all W-E-R-N stations) *90.7 S, AP Audio, along with NPR
 WI Milwaukee WLUM 102.1 soul and jazz
 WI Washburn-Bayfield WBWA 105.9 fm, "8-106" (strict, has removed Larry King from nighttime schedule).
Facilities Changes Approved
 AL Scottsboro WKEA-FM 98.3 900 h.v.; 525'
 AZ Casa Grande KSA 105.5 1900 h.v.; 360'
 AR Oscola KHFO 98.1 50000 (h); deletes vertical, 350'
 AR Texarkana KADO-FM 107.1 1250 h.v.; 435'
 CA Arcata KXGO 93.1 (from 93.5) 44000 h.v. (1050)
 CA Chico KPAV-FM 95.1 8200 h.v. (1170)
 CA Redding KVIP-FM 98.1 adds vertical
 CA Redlands KCAL-FM 96.7 2900 h.v.; 310'
 FL Cocoa Beach WCKS 101.1 1480' (100000 h.v.)
 WRKT-FM 104.1 100000 h.v.; 1520'
 FL Immokalee WIKX 98.3 700 h.v.; 555'
 GA Manchester WQCK 93.3 1250' (100000h.v.)
 GA Newnan WRNG 96.7 360' (1700 h.v.)
 GA Rockmart WZOT 107.1 300' (3000 h.v.)
 HI Hilo KFSH 97.1 -160' (40000 horizontal watts) [terrain
 HI Lihue KIPD-FM 93.5 3000 h.v.; 78 feet above average /
 ID Payette KWBJ 100.3 (from 100.1) 30000 h.v.; 475', non-ID, apparently strict, is "Solid Gold-WBJ," still on 100.
 IN Fort Wayne WBNI *89.1 30000 h.v.; 500'
 IN Madison WCJC 96.7 2700 h.v.; 320'
 KY Georgetown WRVG from 90.1 to *89.9 (still 100 watts)
 KY Somerset WSCC-FM from 90.7 to *92.1 " " "
 KY Winchester WFMI 100.1 1300 h.v.; 430'
 LA Alexandria KTIZ 96.9 94000 h.v.; 1450'
 LA Houma KCIL 107.1 140' (3000 h.v.)
 ME Augusta WSCL 92.3 (from 92.1) 5000 h.v. (300)
 ME Waterville WIAHB *90.5 (from 91.5) 17 h, 86'
 MD Baltimore WRBS 95.1 50000 h.v. directional; 500'
 MA Provincetown WQMR *91.9 440 h.v. (155)
 MN Bemidji KBHP 101.1 100000 h.v.; 330'

280'
 MN Minneapolis KTIS-FM *98.5 100000 h.v.
 MS Mississippi State WMSB *96.7 (from 89.1) 18 [h], 230'
 MO Ballwin KYMC *89.7 (from 89.9) 120 h.; 150 feet
 MT Billings KZLS 97.1 290' (35000 h)
 NE Lexington KRNV-FM 93.1 100000 h.v.; 360', adds Stereo
 NV Las Vegas KCEP *88.1 5' (4700 h.v., reduces coverage considerably).
 NJ Franklin WJSU 102.3 520 h.v.; 745'
 NJ Morristown WJSV *90.5 125 h.v.; 17'
 NJ Whippany WHPH *90.5 125 h.v.; 17' [above two stereo time]
 NJ Upper Montclair WMSC *101.5 (from 90.3) 8 h.v.; 690' [610]
 NC Columbia WTHD 105.7 37000 h.v.; /
 NC Havelock WMSQ 104.9 2900 h.v.; 310'
 ND Jamestown KDDJ-FM 95.5 100000 h.v.; 400'
 OK Woodward KDA 92.1 1600 h.v.; 420'
 PA Harrisburg WITF-FM *89.5 (changes city of license from Hershey; no dual ID, just "Harrisburg"). [390'
 PA Washington WYTK 95.3 1700 h.v.; /
 RI Westerly WERI-FM 103.7 50000 h.v.; 500 feet above average terrain
 TN Clinton WNKX 95.3 540 h.v.; 670'
 TN Cookeville WQSO 94.3 1000 h.v.; 480'
 TN Greeneville W285AA *104.9 (from W218AB 91.5)
 TN Kingsport W276AF *103.1 (from W217AB 91.3) [Etizabenton]
 TN Johnson City *W202AC 88.3 (from TX Clear Lake City (Houston) KMNJ 102.1 180000 h.v.; 1750'
 TX Houston KPFT *90.1 450' (100000h.v.)
 TX Rio Grande City KCTM 103.1 1400 h.v.; 420'
 TX Humble KSBJ *88.1 835' (100000h.v.)
 UT Moab KKLX 96.7 -630' (3000 h.v.)
 UT Ogden KQPD 101.9 26000 h.v.; 3740'
 UT Orem KABE 107.5 46000 h.v.; 2900'
 VT Middlebury WCMV 100.9 300' (30000)
 WA Bremerton KWAA 106.9 1435' (100000 h.v. (30000 h.v.)
 WA Tacoma KVTI *90.9 170' (39000 h)
 WY St. Albans WVLC-FM 105.1 3550 h.v.; 1665 feet
 WY Gillette KOLL-FM *96.9 (from 93.5) 100000 h.v.; 490' [1945'
 PR Guayama WSR 106.9 24500 h.v.; /
Slogans/NonIDs in Use
 AL Birmingham WRKX 98.5 K-99-Country (from K-Country)
 AL Dothan WOOD-FM 99.7 Wood Radio
 AR Murfreesboro KJKK 95.3 J-95
 CA Tracy KMKG 101.7 no nonID
 CA Livermore KKIQ 101.7 no nonID
 CO Denver KLIJ 100.3 FM-100
 CO Pueblo KMKM 98.9 Magic 99-FM
 DC Washington WAMU *88.5 88.5-FM (not 88.4); said to be testing an X SCA on either 87 or 92 kHz. [104
 FL Gainesville WRUF-FM 103.7 Rock-/IL Chicago WBBM-FM 96.3 8-96
 IL Paris WACF 92.5 98.5 Country
 IN Terre Haute WTHI-FM 99.9 Hi-99
 KS Pratt KGLS 93.1 LS Country
 MD Annapolis WL0M 98.1 99-FM (it's rumored to become p if WHFS 102.3 BethesdaMD goes to news-talk)
 MI Grand Rapids WCUZ-FM 101.3 CUZ
 MI Niles WAOR 95.3 Freedom Rock-95-FM, MI Sturgis WSTR-FM 99.3 Star-Radio, MN Anoka KTVN 107.9 K-Twin
 MN Benson KBMO-FM 93.5 KB-93
 MN Duluth WAKX 98.9 Wax-99

MO Kirkville KTUF 93.5 K-Tuf
MO St. Louis KYKY 98.1 KY-98
VE /Miance KPNY 92.1 (to go to 102.1), K-Pony,
NV Las Vegas KFMS 101.9 KFM-102 (strict)
OH Springfield WAZU 102.9 A-Z-U (strict)
PA Carlisle WDCV *88.3 Alternative 88 (not)
PA Charlotte WESA-FM 98.3 98-EA
PA Greencastle WKSL 94.3 Castle Radio, m music
GA Dublin WKZZ 92.7 K-K-Z
GA Valdosta WGOV-FM 92.9 Y-93
ID Lewiston KOZE-FM 96.7 Stereo-96
TX Houston KIKK-FM 95.7 Kick-96/VA Seattle
TX San Antonio KITY 92.9 Y-93 KNHK*89.5
VA Fredericksburg WJYJ *90.5 90-Joy C-89
WY Cody KTAG 97.9 Tag-88

Dual- or Tri-City Identifications

NY Rome WUOU 102.5 adds Utica NY
PA Red Lion WQCB-FM 96.1 adds York-Lancaster
WY Powell KPQC 92.9 adds Cody

Off the Air

NY Johnstown WIZR 104.9 (has been off a long
time; recent check confirms still off the air)

Back on the Air

NE Aurora KIAE 103.1, \$, k, classical Sun. a.m.
Presumed Deletion

ND Minot K261AH 100.1-assumed because of
grant of 99.9 to Minot and KCJB's own request
for modification of its 97.1 antenna.

SCA (67 kHz)

AR Little Rock KLRE *90.5 talking book for blind
CA Merced KAMB 101.5 music, "Your Good News
Station" (speed data)

CA San Francisco KOED-FM *88.5 tX (high /
CO Burlington KNAB-FM 104.1 tX
CO Denver KOZI 101.1 no SCA

FL Panama City WPFM 107.9 no SCA
FL Pensacola WUWF *88.1 tX
GA Savannah WSVH *91.1 tX (telemetry)

IL Chicago WFYR 103.5 tX (highspeed data)
LA Lafayette KSM8 94.5 no SCA
MI Escanaba WGLQ 97.1 t music (carrier)

MN Pipestone KLOH-FM 98.7 no SCA (open /
MO Clayton KFUD-FM *99.1 tM (rock music-
not Muzak as they formerly had)

MO Harrisonville KIEE 100.7 tX
MO Kansas City KLSI 93.3 no SCA (was tX)
KCEZ 94.9 music, not Muzak

MO Warrensburg KCMW *90.9 tX (telemetry)
NE Terrytown KCM1 103.9 music; not Muzak,
drops carrier between selections. KCEZ,
above, doesn't drop carrier, permitting use of
nonsequenced adapters to full advantage

NC New Bern WTEB *89.5 talking book (said to
be going to two frequencies-87 and 92 kHz; I
will have no 92 kHz adapters available until a
substantial number of stations are using 92 kHz;
I would guess in 3 to 5 years.)

NC Raleigh WKNC *88.1 tTB-on only from 7 pm
to 9 pm daily. WA Seattle KUBE 93.3 no SCA
OH Cleveland WDOK 102.1 no SCA

WI Marshfield WLJY <106.5 ABC networks' relay
WI Milwaukee WUWM *88.7 no SCA (none heard
since January testing)

WQFM 93.3 no SCA, dropping music for:
WVCY 107.7 goes back to music SCA
WY Cheyenne KKAZ 100.7 no SCA. open carrier
only. p. 53 FM ATLAS '83 change map call
letters to KKAZ (from KLEN).

Stereo

FL Homosassa Springs-Crystal River WXCW, rm,
"Citrus-95" FL Starke WTLG
FL Quincy WWSD 101.7, t *88.3, gospel music
GA Albany WJIZ 96.3, resumed after several years'
without stereo

GA Swainsboro WKRS-FM 103.9 k, UPI Audio
INSouth Bend WETL *91.7

MI Iron River WIKB-FM 99.3
NE Ainsworth KBRB-FM 92.7, km, on air with
a midnight sign-off
NC Raleigh WSHA *88.9
OR Eugene KBMC 94.5
OR Gold Hill KRWD 100.3 "100-FM" (strict)
OR Portland KBPS-FM *89.9-heard testing
SD Pierre KGFX-FM 92.7 rock, "KG-93" on
after 1 a.m. local time
TX Edinburg KOIR *88.5
TX Colorado City KAUM 106.3
TX El Campo KXGC 96.9 rm, X-97, tX SCA
WI Rhinelander WXPR *91.7, cj, folk music,
tX SCA (telemetry chirps)

Call Letters

AZ San City 106.3 KMZK (was KWAO)
AR El Dorado 95.9 KCAJ
AR Van Buren 102.3 KXXI-FM (KBCU)
CA Blythe 100.3 KJMB-FM (KJMB)
CA Carmel 101.7 KWST (KLRR)
CA Coppelopolis 105.5 KZDD
CA Lancaster 106.3 KZZZ-FM (KOTE)
CA Quincy 101.9 KNXN (K-Nixon?)
CO Brush 107.1 KBUL (KCNQ), "K-Bull
Country 107" (not strict), \$, k(music)
CO Pueblo 98.9 KKJG (KROV), Magic 99-FM.
FL Cocoa *91.5 WMIE-FM
FL High Springs 104.9 WKAE [mat.
FL Tampa 93.3 WOJC (WFLA-FM), same for-
GA Atlanta 99.7 WRMM (WLTA), Warm-100, rm
GA Cairo 102.3 WTGO (WKBP)
Georgia 95.3 WTGA-FM (WTZO), \$, T-95
HI Honolulu 97.5 KPOI-FM (KOUK)
ID Preston 96.7 KACH-FM
IL Taylorville 92.7 WTJY (WEEE)
IN Earl Park 98.3 WIBN
KS Coffeyville 92.1 KQOF (AM is KG6F)
KS Leoti 99.9 KWKR
KS Phillipsburg 92.5 KBMJ
KY Owensville 107.1 WKCA (WGCI)
LA Baton Rouge *91.1 KLSU (WPRG)
ME Sanford 92.1 WEBI (WSME-FM)
MD Glen Burnie 95.9 WWIN-FM (WBKZ), now
soul, "96-FM, WWIN."
MA Northfield *91.5 WNMH
MI East Lansing 94.9 WVIC (WVIC-FM)
MI Hart 105.3 WCXT
MI Glenwood 107.1 KZZA
MI Hibbing 93.9 WTBX (WKKO-FM), 94-X; also
affects 96.7 translators
MO Vandalia 100.1 KMMR
MO West Plains 102.3 KKDY
NM Santa Fe 104.1 KLSK 1920' (100000 h,v)
NE Cozad 104.5 KOOC, \$, to be KC-105, on air
later this month, xmr 11 km N. Eustis NE
NY Hornell 105.3 WKPD (WHHO-FM), Stereo?
NY North Syracuse 100.9 WSCY (WEGZ-FM)
NC Burlington-Graham 93.9 WBAG (WBAG-FM)
NC Murfreesboro 98.3 WBGC (WDDR-FM)
NC Southport 107.1 WJWY (WLCF)
ND Devils Lake 103.5 KZZY
ND Minot *89.9 KITT
OH Bryan 100.9 WBNO-FM (WBNO-FM)
OH Middletown 105.9 WPFM-FM (WPFM)
OR Corvallis 106.1 KFAT (KLOO-FM; affects
Alsea and Newport 100.9 translators, too)
OR Redmond 107.5 KEJC
TN Cleveland 100.7 WUSY (WQLS), adds
Chattanooga TN for a dual-city identification.
TN Etowah 103.1 WCPH-FM (WMMC)
TN Jefferson City 99.3 WKJQ (WSSM)
TN Memphis 105.9 WGKX (WEZI)
TN Trenton 97.7 WLOT (WTNE-FM)
TX Malakoff 95.9 KCKL
TX Mission 105.5 KITM
TX Pasadena-Houston 92.5 (to go to 92.9)
KKBO-FM (not KKBQ), ABC-FM network,
along with KKBO-AM; and WRBO-AM
Tampa FL first known AM stations with ABC-
FM!

TX Pearall 95.3 KWVG-FM
TX San Antonio 100.3 KLLS-FM (KLLS)
UT Brigham City 107.1 KFRZ (KBUU-FM)
UT Salt Lake City 94.1 KLCY (KALL-FM);
affects scores of translators, too)
UT Tremonton 104.9 KBXM-FM
UT Spanish Fork 106.3 KBHV (KTMP)
VT Vergennes 106.3 WIZN
VA Crozet 102.3 WPED-FM (WCMZ)
VA Woodbridge-Alexandria 105.9
WPKX-FM (WVWX)
WV Huntington 103.3 WTCR (WHEZ)
WV Institute *90.9 WVEYS
WI Menomonee Falls 98.3 WFMR (WXYJ), c
WY Cheyenne 106.3 KLEN
VI Charlotte Amalie 101.1 WSTT (WCRN)

FM Atlas, 8th Edition, Corrections

AL Guntersville *7TWX 95.9 calls missing, p. 69
AZ Sedona, p. 70, K257AV, no K275AV.
AZ Tucson, p. 103, KXCI *91.7 missing, 190',
3000 h,v
AR Marshall, p. 70, KZRO calls missing
CA Berkeley, p. 107, 94.1, not BBERkeley
CA Santa Barbara, p. 121, 103.3 Ctuira KRUI-
(not strict) they say "Stereo Cruise" (not strict)
FL Clearwater, p. 29, WMGG (not WCKX) 95.7
p. 113 WQXM 97.9, ant. ht. missing, 600'
FL Manatee, p. 107, WMIU, not WNMWUM
GA Marietta, p. 108 WBVZ (not WBAZ) (WVMDM)
GA Moultrie 93.9, p. 107, WMTM-FM (not /
ID Soda Springs, p. 75 KFIS 100.1 calls missing
IL-IN, p. 32, should read "see p. 38-39 for
northern IL, IN" [98.1]
IN Princeton, missing from map p. 32, WRAY /
INSouth Bend/Elkhart, p. 36 map, change
WWJY to WTHD and WXA-X to WFRN
INWinchester WZZY 98.3 not on p. 76, \$, 9,
15, 46, Mutual network
IA Clarinda, p. 45 and 46, KQIS (not KQWI)
KS Colby K213AB for KANZ, not KANS [map
LA Shreveport KDAQ *89.9 missing from p. 49/
MA Provincetown W0MR *91.9 missing from
p. 79, \$, jc, 8, 31 miles
MN Duluth, p. 40 WAVC (not WGGF)
MN Golden Valley KQTS 92.5 should be listed
as having tX SCA
MI Detroit 98.7, p. 114, WLLZ (not WLLS)
MS Meridian WJDD 101.3, p. 118, facilities
missing: 580', 99000'; RIKO1. [Boint?]
MS West Point, p. 117, 100.9 listed as "West /
MO Memphis, p. 47, KMFM 96.7 calls and
frequency missing [3000 h,v:
MT Baker, p. 117, 100.9 missing-KFLN-FM 160'
NV Incline Village, p. 82, 100.1 KLLT calls
missing [640 h,v
NY Sidney, p. 117, 100.9 missing: WSID 580' /
OH Cleveland, p. 95, WMIJ (not WMMW)
OK Broken Bow 106.3, p. 125, KKB1, not
Broken Arrow

OK Miami KSSM (not KORS), p. 46 and 49
SD Pierre p. 42 KGFX 92.7 missing from map
SD Sturgis-Rapid City KRCS 93.1 calls and
facilities missing, p. 105, \$1490 100000 h,v
TX Beaumont, p. 51, failed to note that KWIC
107.7 is going to go to 107.9
TX Lubbock, p. 48, KRUX 102.5 calls missing
TX San Marcos KEY1, p. 90, 103.5, not 103.7
TX Sinton KODL, p. 90, 103.7, not 103.3
WY Mammoth Hot Springs K292BQ 106.3 all
references to this station wrong: translator of
KBQZ-FM, not KBZN 93.7 Bozeman MT
AT Calgary, p. 93, CKRY calls missing, 105.1
BC Prince George CIGV, p. 117, 100.5, not 100.7
BC Vancouver, p. 119, not 101.7, is on 101.9
BC Vancouver CFRO 102.7, p. 120, antenna
too high; should be 1005'
MB Sellkirk, p. 105, CFOX (not CFOX), 92.9
NS Shelburne, p. 105, CKBW-2.93.1, no use
of a Q-93 nonID

ON Atikokan, p. 43, CBLA calls missing
ON Sarnia, p. 37, CBEG, not CBEC

PQ Quebec, p. 95, CHIK, not CKIK 98.9
SA Bellagarde CBK-F4 91.9 missing from p. 103: 347',

4700 w; in SE part of the province (not N. Central)
p. 124, 105.5 should be listed Class A, not B/C

READERS' REPORTS AND INDUSTRY NEWS

Georgia's Nick Lombardi sent along copies of two
articles mentioning the new FM Atlas. One was the
July Stereo Review and the other was in the June (#2)
Audio Amateur.

The latter article was a little dated, mentioning the
Seventh edition.

One of my customers, from IL, writes:
I like rock music. . . The FM stations and AMs have basically
the same songs, but I listen to WLS on the AM band because the
DJs (not "DXs" as in last month's column) aren't just talking
heads. Larry Lujack, Fred Winston and Tommy Edwards are a
virtual blessing. They actually have opinions!! And their
vocabulary range is great enough to put a caller on the air
between songs and converse with them! 'Round these parts, all
the DJ's sound alike; they can read commercials and call signs
real good, but that's it.

I know the book you write is about FM, so you should
support FM radio. But you sound like a little kid who put on
the headphones, and found out that AM has 1 channel and FM
has 4 channels [sic]: 'Look, Ma, stereophonic sound, wow. So
I hate AM!

Without AM, there would be no FM, for FM is just a deformed
AM signal. Much like single sideband for radio hams, SSB is a
different way of transmitting in AM. I really like the way the
Atlas is set up! Why not include a section for AM and TV in the
same way-maps, listings at the end, just as FM is arranged now.

Thank you for reading my babblings!
The only reason I put the above in is because of having extra
space. It shows some of the concern and suggestions I receive
for changing [improving?] the FM Atlas. I don't have time to
do AM or TV, with FM being my main interest and a labor of
love to chronicle. I'd like to be able to promote the club TV
station guide. And Vane Jones tells me he will come out with a
new edition of his guide around this fall.

I don't agree with his comments about FM being a deformed
form of AM, and I am sure most club members don't either.
Paul Gaines wrote and sent a Phenix City AL-Columbus GA
newspaper radio program guide, and is working on a cleaning
customer of his to try out FM-DX.

A Wisconsin station engineer writes:
The FMusings-eleven pages is not enough. How about more
in the next edition? Beautiful music stations in Wisconsin are
are still going strong are WEZW 103.7 Milwaukee (Wauwatosa),
WSJY 107.3 Fort Atkinson and WEKZ-FM 93.7 Monroe.
And I would like to see the foreign station and frequency listed
on the maps like the U. S. stations. I remember driving around
Canada and it was a pain to try to find the city and station by
paging around. Am I the only one to mention this? . . . I am
looking forward to the ninth edition.

An Orange County CA reader sent an article, "Digital
FM Via Cable Audio," talking about KKGQ Los
Angeles being on the satellite and with many cable
systems using its signal. Then the article discusses using
digitalized FM on cable, but not on the air. This, the
article says, will promise better "fi" than using FM over
the air. I'm skeptical. Cable "stations" mentioned are
a "KOOL-FM" Fort Wayne with soul and an un-
mentioned frequency, and a "CVLA" Los Angeles, in the
educational band, with the newest being a "KVMR"
in Chatsworth CA with 16-hours-per day of pop, rock,
and adult contemporary music and local news.

KIQS 105.5 Willows CA expected on air by now.
KAMB 101.5 Merced may soon have a translator on
99.3 serving San Jose and Fremont. It will be on
Monument Peak (site of KICU-36, KSTS-48 and KTEH-
54, about 2000' above average terrain), and will receive
its signal from K240AH Salinas, which now has a signal
beamed north as well as the original beam eastward.
KUFW *90.5 Woodlake, \$, has a nonID, possibly strict,
"Radio Campesino." K240AK Greenfield CA off the
air. . . its wind generator is out, and it's running on
batteries. Therefore, it is frequently off. K215A H
Avila Beach wasn't yet on (made sidetrip especially to
check). . . Lunch in Borrego Springs yielded no sign of
KBSH *88.9. It was a school day, so they just don't

seem to be operating. A close check on Mexicali (from El
Centro) revealed that XHFE 89.9 and XHMC 104.9 are
not on the air; nor were KQVO 97.7 Calexico, KGBA
100.1 Holtville and XH7? 106.3 San Luis, SM. XHBA
104.1 Mexicali turns out to be eclectic, with c, L, and r
all heard in one day. XHBA gets out better than the other
Mexicali stations, but suspect their transmitter is a lot
lower than 1968'. Continuing John Jefferson's report:

KERU *88.5 on in stereo with L; were on 88.7 but I ded as 88.5;
also spit out spurs all over the band. . . KRHS Bullhead City AZ
now on 102.7. Were running Dodgers baseball, so can't say much
about their format.

Next day in Nevada verified that K280AM Searchlight was on,
but no sign of K292AW. No sign of KTWB 96.3 Las Vegas or
KMZQ 100.5 Henderson. KCEP *88.1 Las Vegas must still be at
low power; a couple of miles from downtown they're gone! Moving
north, K286AS Indian Springs and K285AP Rhyolite both heard.
Most welcome, as there was nothing else on the band much of the
time. Latter heard something like 25 miles south of Beatty and
50 miles north-how's that for reach? . . . At Tonopah, KPAA 92.7
on with easy country, like KEZZ Glendale AZ has. K276BK heard
at 25 miles, paralleling K285AP at its extreme northern reach.
K269AV also on, but only heard near town. In fact, at Tonopah
Summit, where K269AV was first heard, I was already getting very
weak signals from K221AR and K272AE Hawthorne-still 85 miles
away! (It's 6200' up there, which helped t.l.g.s a bit; also heard
KILA 95.5 Henderson there at 175 miles, and KQYZ 104.9 Lemore
CA at 160!) The remaining Hawthorne translator, K240 AD, was
but could only be heard in town.

Moving into the Reno area, no sign of KNAA Sparks on 100.9. KHTX
Carnelian Bay now on 103.7 in mono with good signal into Reno. KZFR
102.9 South Lake Tahoe, by contrast, barely receivable. KRLT South Lake
Tahoe evidently still on 100.1, as nothing on 99.9. This would seem to
imply that KLLT 100.1 Incline Village isn't on yet. . . One last note. It
doesn't exactly fit the scope of FCC FM News, but don't know where else to
submit it. HJCB Bogota, Colombia, which broadcasts on SW, mentioned that
they're also on FM on 107.8. They're undid as "Radio Super."

John also sent along an article explaining the demise of KOED-FM's pay-
radio all-night COAST service.

A reader would like me to again list channel 6 TV audio in my
book, but I'd prefer people to buy the WFTDA TVSG when it is
again available.

KCMA 106.1 Owasso OK is making it with critics and the
audience but not yet with advertisers. It has a classical format and
carries ads for the FM Atlas and Station Directory. Manager Dr.
John Major said "I'm satisfied in terms of where I thought I'd be a
year and a half ago. In terms of where I want to be? No." KCMA
has a fulltime staff of five, which includes Major and Mrs. Major.
"I'm in the process of setting up a new FM in this area south of
the border and your article on Radio World was very interesting to
read about especially pertaining to Mexican FM stations," writes Gus
Valadez, Jr. "Keep up your interesting writeups," he concludes. I am
working on one now for Radio World on FMDXing, which will
include a plug for the club.

CFNY 102.1 Toronto still has transmitter in Brampton. They
hope to move to the CN tower by the fall. In Minneapolis, a judge
has said the FCC must rule over the IDS antenna problem that has
left several stations at 50 kw instead of the full 100 kw until inter-
ference to KJSN *91.1 and WCCO-FM 102.9 is resolved. And 100
pay-TV (MDS) "pirates" are being sued in the Twin Cities by HBO.

One reader counted the stations in my book-4932 American,
excluding Armed forces stations. In Painesville OH, hooked to a
cable system, cable news network comes in via audio on 87.75 and
MTV television on 97.7. "Unfortunately, I can no longer listen to
WAMZ 97.5, which comes in only with rabbit ears on the stereo.
WAEZ is strangely missing on the cable, while WKDD 96.5 is loud
and clear on the cable. Dow Jones plans to cover the entire country
with its DowAlert, but will concentrate on major markets first.
WVNJ-FM 100.3 Newark rumored to be going rock, with calls WHTZ!
New FCC rule (F80,90) won't mean any new FM stations for MD,
as an article Tom Yingling sent pointed out. John Ebeling proves
that XET-FM did operate on 94.0 MHz, with a 1962 verification
from the Monterrey station to show for it. Were 250 watts then.
I did some of my own allocating, using the new FCC rules as a guide. In MN
new channels could be added as follows: New Prague 107.3A, Buffalo 96.1A,
Stillwater 105.9A, Shakopee 105.7A, S. St. Paul 97.3A, Maplewood 105.3A,
Hastings 96.5A, Spring Grove 101.1B1, Winona 96.5A or 105.7A, Lake
Geneva WI 104.5A, Northfield 104.5A (Mn).
Remainder of last month's contributors: Paul L. Gaines, Detroit MI; Timothy
P. Noonan, Milwaukee WI; Ronald Fernd, Milwaukee WI; John Sulek, Orlando
FL; Phil Sullivan, Acton MA; Dr. R. Wood, Abha, Saudi Arabia. This
month's contributors to be listed next month.

QSL CORNER

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

TV-QSL

- NB CKLT-1 3 Florenceville. Letter from R. A. Oulton, Director of Engineering, reply in 1 1/2 months. (no address given by reporter) Gains
- CT WEDN 53 Norwich, 7 24 Summit St., Hartford, CT 06106. Send verification by typed letter by John W. Kean, Vice President of Engineering & Operations, contains technical data. Reply in 6 days. Fahber
- FL WPTV 5 Palm Beach, Box 510, 33480. Letter from Edward J. Roos, Eng. Mgr. Reese
WTVJ 4 Miami, 316 N. Miami Ave., 33128. Personnel letter with station data from Ken Littrell, Studio Mgr. Reply after 1 1/2 years after follow-up. Ross
- MI WWMA 17 Grand Rapids, 3117 Plaza Drive NE, 49505. Letter from Dick Stawicki, Director of Operations. A letter verie to phone call during my reception @1170 miles! (See copy of letter below) Pizzi
- MO WDAF 4 Kansas City, Signal Hill, 64108. Typed-letter from James P. Schmidt, Chief Engineer. All the way from Missouri, received five days after I sent the report. Fahber
- NE KSNB 4 Kearney, Box 220, 68847. (no local address in Superior) Typed letter from Gerald L. Fuenher, Network CE-NTV, which includes KWNB-6, CNA-8 & KHGI-13. Jefferson
- KDUH 4 Scottsbluff, Box 536, 1523-1st Ave., 69361. Handwritten letter with coverage-map for KDUH, KOTA, KHSD, KSGW. Signed by Tim Holdahl, Chief Engineer Jefferson



Reporters this time are: Paul Gains; Detroit, MI, Bill Fahber; Bridgeton, NJ, Jim Pizzi; Lovington, NM, Richard Reese; Jersey Shore, PA, John Jefferson; Pleasanton, CA, Richard Ross; Ont. Canada. Below is a copy of the ver e-letter from WWMA-TV 17 that Jim Pizzi got for is long haul tropo from Michigan at 1170 miles! Also copies of bumper-stickers from Dave Niean. This brings up a new item for this column. If you have any bumper-stickers to send for printing please do; as filler material for the column. Well, thats all for now, see you in Dur, irk!! for



PS: Just in case anybody has some good qsl-letters, that they would like seen in print just send me your qsl-letter, & I will copy it & send it back free of charge to get more input to the QSL Corner. Also if you have any odd & different bumper-stickers, do the same. At least this way I can always do a full page ever month. I hope this will work to get new reporters.

WWMA-TV
LOCALLY OWNED AND OPERATED ALTERNATIVE VIEWING

June 20, 1983

Mr. Jim Pizzi
P.O. Box 1778
Lovington, New Mexico 88260

Dear Jim:

Thank you for your call today to verify your reception of WWMA Channel 17 in Grand Rapids, Michigan. Upon telling our chief engineer of your reception, he said he would have to take a good look at our transmitter.

The Promo of "Gunsake" and the segment you watched from "The cooaster" children's program were indeed on at that time.

Thanks again for your call, Jim.

Regards,
Dick Stawicki
Dick Stawicki
Director of Operations
DS/dv

3117 Plaza Drive N.E. • Grand Rapids, MI 49505 • (616) 307-3722

AUGUST 1983

NORTHERN FM DX (3)

GORD LANSDSELL - 156 W. 18th Street - NORTH VANCOUVER BC V7M 1W4

EQUIPMENT: Toshiba SA-850 rcvr, 10 elem. Yagi 40' up at zero HAAT.

Pacific S.T. used.....

(Ed note...is BC on Standard time all year?)

JUNE 7 E-SKIP:

1854 KFLQ 91.5 NM Albuquerque ej \$ 1600	2140 KUBO 90.9 CA Chualar e \$ 1000
1900 KANW 89.1 NM Albuquerque rm \$ 1600	2145 KVM 93.7 CA Coachella m 1350
1907 KUNM 90.1 NM Albuquerque rc \$ 1600	2154 KSN 94.9 CA San Francisco k \$ 900
1908 KRST 92.3 NM Albuquerque k \$ 1600	2154 KBOSt 94.9 CA Tulare r \$ 1100
1909 KOBt 93.3 NM Albuquerque m \$ 1600	2155 KBBY 95.1 CA Ventura r \$ 1250
1910 KWXL 94.1 NM Albuquerque rp \$ 1600	2155 KOKQt 95.1 CA Oakdale k \$ 900
1912 KKJTT100.3 NM Albuquerque b \$ 1600	2204 KSON 97.3 CA San Diego k \$ 1400
1916 KLYTt 88.3 NM Albuquerque g \$ 1600	2210 KIQQ 100.3 CA Los Angeles r \$ 1300
2102 KNFR 89.5 NV Las Vegas cj \$ 1300	2217 KJLH 102.3 CA Compton j \$ 1300
2121 KPBS 89.5 CA San Diego t \$ 1400	2222 KACE 103.9 CA Inglewood js \$ 1300
2122 KORW 89.9 CA Santa Monica j \$ 1300	2228 KKXX 107.9 CA Bakersfield rp \$ 1200
2127 KVCR 91.9 CA San Bernardino ro \$ 1300	2230 XHIS 90.3 MEX Tijuana Lr \$ 1450

The very best Es opening I have heard to date (3 years FM DXing). California DXers were picking up BC AB and the northern States from WA to ND. All loggings except those marked "t" sent for QSLs. Cheers, Gord Lansdell.

(Ed. notes...Toronto area WTFDAer Tim Brown mentioned awhile ago to me that your adress is about a block away from his one, when he lived in BC. You both may wish to compare notes, as your terrains must be/have been quite similar. Also, you may hold a distance record or two with your NM DX...in fact I think 94.1 qualifies, so work out the exact figures and send 'em to Statistics, if you're so inclined. I wonder where the E-layer was active during this opening...I had NOTHING at this time, even on TV-2. -ed).

DAVE J. NIEMAN - 12284 Nice Road - AKRON NY 14001

Equip: Carver TX-11 & Pioneer TX-9100 tuners, Stereo Probe 9 at 40 feet.

MAY

21 Es (MUF 91.9)	8 Es (MUF 105.1)
1828 WKPX 88.5 FL Sunrise r*	1731 93.5 KGR TX Crockett k*
1830 WFRS 90.7 FL W. Palm Bch. c*	1737 KTAW 92.1 TX Coll. Stns. r*
(ex-Boynton Bch FL)	1743 KTRY 94.3 LA Bastrop s*
26 Es (MUF 105.5)	1749 KTRU 91.7 TX Houston rp *
1923 WWOZ 90.7 LA New Orleans j fundraise 1090	1754 KYKR 93.3 TX Port Arthur k*
2009 KLUJ 97.9 OK Poteau g*	(o/WWSE Jamestown NY)
2031 KOSU 91.7 OK Stillwater c	1758 KQXY 94.1 TX Beaumont b*
2042 KILT 100.3 TX Houston k* "FM100"	(o/CHL Toronto ON)
28 MS	1803 KAYD 97.5 TX Beaumont k*
2234 WKWC 90.3 KY Owensboro g*	2100 KYKS 105.1 TX Lufkin k*
JUNE	12 Tr
3 Es (MUF 95.9)	0801 WHEW 96.3 MI Petoskey *
1859 WQCS 88.3 FL Fort Pierce c*	2048 CJKX 105.3 ON Sudbury m
5 Es (MUF 101.1)	17 Tr
1119 KPKE 95.7 CO Denver r* "RockRadio-96"1375	0652 CHRW 94.7 ON London m*
1129 KROA 95.7 NE Grand Island g*	1932 WOSQ 89.3 NY Central Square r*
	20 Tr
	2257 WSUC 90.5 NY Cortland rp*
	21 Tr
	1916 WPRR 100.1 PA Altoona r*

That's it for now; I have a little skip coming in now on TV-5. I hope to see you all at the WTFDA convention August 5-6-7 th at DUNKIRK NY. 73, Dave.

SAUL CHERNOS - ALL DX FROM BURNT RIVER ON, EXCEPT WHERE NOTED. B.R. 80 MI. NE OF TORONTO.

That's not my address, though, check column masthead for that. All mail forwarded to the appropriate place and nothing seems to be "lost"; nothing has for last five years, so I've chosen Toronto as a permanent mail address. An article in the local paper mentioned the New Hebrides Islands in the Coral Sea will undergo an eclipse - a TOTAL one. Without going into details here (write if interested), an aurora was expected. We all know what that can do to FM! The date mentioned was June 11. SO HAS ANYONE LOGGED AURORAL DX, whether Au itself, or the Es it is said to be able to induce? Me? June 12/13 was among my best Au ever, and the only Au of note in June. Then with the time zone difference. It hit TV-13 and I've a tentative LOGGING there, pending checking, so there may be some connection there. Comments welcome. Other than that, a rather poor Es session in June - very little on TV-2, even. And since I haven't been inundated with reports, I am not alone, I guess. One very nice Tr duct along with a consistent 300 mile "groundwave" base. The last few days of June picked up, Es-wise, so I expect a minimum of grumbling at our convention. So without further adew,

CENTRAL FM

Ralph Strobel, editor
2300 E. McCalliard Rd.
Muncie, Indiana 47303

August 1983

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

SOME GOOD E-SKIP DAYS, BUT LITTLE TROPO

John Clemmer - 4524 7th St. #2303 - East Moline, IL 61244

I was driving home from Chicago on 6/25 listening to the Chicago FMs on a portable radio in my car when I got quite a shock. I thought cx were sorta crazy and started tuning around and all of a sudden heard: "It's 89° at Intercontinental on KQUS." I about went nuts hearing Houston on FM on a portable just south of Joliet, IL. Following are other stations I heard at Dwight, IL where I stopped and DXed for awhile with the GE Superadio.

6/25 Es 2030 KERV 94.3 TX Kerrville, ID, "Hill Country wx" report
2035 KOXE 101.5 TX Brownwood, ID, k, ment. of "Heart of Texas"
2043 KAJA 97.3 TX San Antonio, cola ad into Dolly Parton record, "KJ-97" non-ID
2050 KSLR 96.1 TX San Antonio, concert ad, "96-FM," ID
2057 WFMR 102.5 LA Baton Rouge, ID into rock
2059 KIKK 95.7 TX Houston, k, into legal ID at 2059
2110 KBIC 102.3 TX Alice, W/ID and ment. of Alice

Wish I would have had time to DX more! Quite an evening. KERV and KBIC are two of my farthest class "A" catches ever! (Times shown are CDT) Good DX + 73, John

Robert Grant KD8EN - 5775 Bishop - Detroit, MI 48224

Equipment: Magnavox AL 789 portable, America Audio 2500 car stereo

4/9 tr 2100 CB-- 103.1 ?? FF, // to CBEF (AM 540)
6/2 tr 1930 WIQB 102.9 MI Ann Arbor, (WLBS made it tough - see comments)
1933 WFWR 98.3 MI Monroe, ID and "Tower-98," (Class A)
(The call sign and non-ID sound quite familiar, hi)
6/5 tr 0457 WKSU 89.7 OH Kent, ID
6/20 GW 1200 WLBS 102.7 MI Mount Clemens, (local), has gone back to d,
(Was rs for quite some time)

The American Audio 2500 car stereo gives much more selectivity than the Magnavox portable. With it, I finally caught WIQB which is on a channel adjacent to WLBS. WLBS is less than eight miles away on a tower that looks to be about 700-800 feet above ground, assuming WWEK's transmitter towers are 1/2 wave. (WWEK is the AM station next door to WLBS. WWEK's towers look to tall to be 1/2 wave). The local FM scene has quieted down somewhat. CJOM WMJC, WCZY, WHTT, WLLZ, WABX, WNIC, WRIF and WOMC are all either r or rm. It gets boring to hear the same "Men at Work" hit on seven local stations at the same time. (That's OVERKILL!, hi).

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

Equipment: Realistic STA-111 and Archer stereo Supreme F.M. Antenna

6/3 Es 1618 WBAG 93.9 NC Burlington, wx, ad 870	6/8 Es 1712 WKUB 104.9 GA Blackshear, ads, 1040 Beach mx, oldies
6/5 tr 0754 KELO 92.5 SD Sioux Falls, b 217	1721 WVLV 94.5 FL Daytona Beach, ID 1205
6/8 Es 1643 WPUZ 93.7 FL Ocala, ads, 1175 big band mx	6/9 Es 1505 WPEX 92.7 IA Clinton, wx 908
1647 WGOV 92.9 GA Valdosta, ads, "V-93" 1037	1507 KLLL 92.1 LA Moreauville, ads 888
1650 WQXI 94.1 GA Smyrna-Atlanta, ads, "94-Q" 825	1609 KFMX 94.5 TX Lubbock, ads 870
1656 WIZD 98.7 FL Fort Pierce, ads 1338	1610 KWLV 93.9 TX San Angelo, k, ads 962
1659 WNYF 99.9 FL Palatka, ID, 1165 r, KAUS-FM absent!	1614 KNIN 92.9 TX Wichita Falls, b 760
1704 WDIZ 100.3 FL Orlando, AOR 1235	1615 KBIL 92.9 TX San Angelo, r, ads 962
1707 WCKE 101.1 FL Cocoa Beach, r, "CK-101" 1273	1624 KRCT 94.3 TX Ozona, ads, k 1037
1709 WRKT 104.1 FL Cocoa Beach, k 1273	1632 KZOR 94.1 NM Hobbs, nx, 958 wx, r, "Z-94"
	1636 KRUX 102.5 TX Lubbock, ad, 870 k, "K-103"
	1858 KFIM 92.3 TX El Paso, r, ads 1125
	1900 KAFF 92.9 AZ Flagstaff, ID, nx 1175

- Continued -

CENTRAL FM DX

Ronald Purdue cont'd:

AUGUST 1983

6/9 Es 1912 KXTX 88.1 TX Lubbock, r, "FM-88" 870	6/25 Es 1901 XHJD 98.9 NL Monterrey, 1353 SS ads, EE r
1918 KBEL 93.7 TX Lubbock, r 870	1914 KOYE 94.9 TX Laredo, ads, r 1215
1927 KLLL 96.3 TX Lubbock, ads, k 870	1921 KAOC 93.3 TX Port Lavaca, 1095 wx, ads
1930 KTEZ 101.1 TX Lubbock, ads, ID, b 870	1926 KSRR 96.5 TX Houston, ads, 1005 "97-Rock"
1937 KPJH 94.3 TX Ft. Stockton, rm 1066	1931 KKBQ 92.5 TX Pasadena-Houston, 1005 r, "93-Q-FM"
1939 KNFM 92.3 TX Midland, k 978	1937 WPMF 102.5 LA Baton Rouge, ads 938
1944 KAMZ 93.1 TX El Paso, r, "Z-93" 1125	1950 KHCB 105.7 TX Houston, g 1005
1950 KQIP 96.9 TX Odessa, ads 992	1952 KTGJ 103.3 LA Hammond, 938 r, "103-TGI"
1955 KKKK 99.1 TX Odessa, g 992	2001 KBTU 103.7 LA Lake Charles, ID, r 948
2004 KUFO 97.9 TX Odessa, r, ads 992	2013 KXGC 96.9 TX El Campo, r 1056
2025 KORG 100.7 TX Abilene, 885 ads, "Q-100"	2044 KBLT 94.5 TX Harlingen, k 1280
2036 KIXY 94.7 TX San Angelo, ads 962	2050 KPMK 97.9 TX Houston, ads 1005
6/15 Es 1505 KODK 92.7 TX Kingsville, ID 1185	2055 KHYS 98.5 TX Port Arthur, 977 ads, r, "Kiss-98"
1510 XHAAA 93.1 TAM Reynosa, SS ads, 1290 Reynosa mentioned	2100 KIOU 96.5 TX Corpus Christi, 1165 wx, ID
1539 KEXX 93.9 TX Corpus Christi, r 1165	2106 KBFM 104.1 TX Edinburg, ads 1274
1758 KVIC 95.1 TX Victoria, r 1086	2114 WBYU 95.7 LA New Orleans, b 978
1815 XHONT 96.1 TAM Tampico, SS mx 1555	2121 WAFB 98.1 LA Baton Rouge, r 938
6/25 Es 1845 XHAAA 93.1 TAM Reynosa, 1290 SS ads, SS mx	2124 KYKZ 96.1 LA Lake Charles, k 940
1855 KRXX 99.5 TX Brownsville, 1280 ad, "Star Wars Glass"	

It was a superb month for FM E-skip. A lot of excellent openings occurred on the 8th, 9th, and the 25th. My new stereo receiver, the STA-111 performed very well on the logging of WPMF on 99.9 MHz completely. The antenna was almost perpendicular to KAUS-FM xmr (nulled). That's it from here. Hot wx and good DX really screw things up in my mind So 73s and good DX. See you in 30. Ronald

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

From Bloomington, MN location:

6/8 Es 1545 Unid 93.3 ?? "93-FM," g, christian 1548	6/9 Es 1649 KITV 92.9 TX San Antonio
1548 WGOV 92.9 GA Valdosta, "V-93"	1705 KPBJ 94.3 TX Fort Stockton
1551 WDRO 92.3 FL Orlando, SCA, "K-92-FM" used	1800 KZOR 94.1 NM Hobbs
1556 WVMG 96.7 GA Cochran	1824 KNFM 92.3 TX Midland
1600 WTLG 88.3 FL Starke, s/off	1831 KBIL 92.9 TX San Angelo
1607 WVKF 92.1 FL Macclenny, auction, phone 259-2212	1835 KUFO 97.9 TX Midland
1619 WDIZ 100.3 FL Orlando, SCA	1840 KBAT 93.3 TX Midland
1630 WMFE 90.7 FL Orlando, "FM-90+," SCA (telemetry)	1848 KORQ 100.7 TX Abilene, "Q-100"
	1849 KXTX 88.1 TX Lubbock
	1900 KNMI 88.9 NM Farmington, satellite radio network news
6/9 Es 1600 Unid 92.7 ?? SS	1909 KFIM 92.3 TX El Paso
1626 KESS 94.1 TX Fort Worth, SS, PRN SCA	1912 KRUX 102.5 TX Lubbock
1629 KDCI 92.1 TX Devine	1930 KLLL 96.3 TX Lubbock, SCA music, "Triple-L" used
1630 KINL 92.7 TX Eagle Pass	1931 KEAN 105.1 TX Abilene
1638 KSEBJ 88.1 TX Humble (New Underlined)	1935 KHEY 96.3 TX El Paso, "Y-96"
	1935 XHIM*105.9 Chi Ciudad Juarez

*This is an odd one. Both FM Atlas and RFS Mexican FM list have XHIM on 105.1. I am positive of 105.9, as I have "digital noise" on FM band at 106 and could hear noise when signal faded. Heard from 1920 to 1935. Taped reception and listened to by two people well versed in Spanish (one native of Mexico) and they wrote down call letters and other info (ads near Juarez).

- Continued -

RADIO FREE CAROLINA  WXYC-FM 89.3

From Prosit, MN Cabin Location:

6/4 Es
 1600 KCRK 92.1 WA Colville
 1621 CFFM 98.3 BC Kamloops
 1624 CFFM-8 93.1 BC Chase
 1630 CBUR-6 96.5 BC Kamloops, FF
 1636 CFFM 101.3 BC Clinton, (CFFM-4)
 6/22 tr
 1320 WKYA 93.1 SD Yankton, "KK-93"
 6/24 tr
 1510 CBQT 90.5 ON Fort Francis, (testing)
 1525 CKSB-7 89.1 ON Fort Francis, w/tones
 6/25 Es
 1855 WAFB 98.1 LA Baton Rouge
 1900 KRVS 88.7 LA Lafayette
 1901 WWOZ 90.7 LA New Orleans
 1922 KQVE 102.9 TX Houston, SCA
 1924 KLOZ 102.1 TX El Paso
 1943 KMDL 97.7 LA Kaplan
 1950 KFMK 97.9 TX Houston, "98-FM"
 1955 KPFT 90.1 TX Houston
 6/26 Es
 0845 WPAP 92.5 FL Panama City
 0855 WLVI 92.3 AL Montgomery
 0920 WMMK 92.1 FL Destin
 0924 WEGN 93.5 AL Evergreen
 0938 WQID 93.7 MS Biloxi, "94-QID"
 0941 WOKK 97.1 MS Meridian
 1000 WFTX 94.7 MS Jackson, "94-TTX"
 1020 WENO 99.5 LA New Orleans
 1025 WYLD 98.5 LA New Orleans
 1028 KDBH 97.7 LA Natchitoches
 1032 KTEL 93.1 TX Tyler
 1051 WQNZ 95.1 MS Natches, SCA
 1055 KIPR 95.5 TX Diboll
 1059 KNUV 101.5 TX Tyler
 1102 KPIN 99.3 TX Atlanta, "Capon"
 1108 KJON 92.1 AR Booneville
 1830 KESB 94.1 TX Fort Worth, SS
 1839 KOKI 95.3 LA Bayou Vista
 1845 KYKZ 96.1 LA Lake Charles
 1900 KVPI 93.5 LA Ville Platte
 2116 KFIM 92.3 TX El Paso
 2143 KRZC 92.3 AZ Phoenix-Glendale
 6/27 Es
 2012 KFIM 92.3 TX El Paso
 FM faded on 6/30, but TV active - Had XEW-TV Channel 2 in for 45 minutes - three good superimposed ID's seen.

6/28 Es
 0854 KUFO 97.9 TX Midland-Odessa
 0858 KNFM 92.3 TX Midland-Odessa
 0859 KOCV 91.3 TX Odessa
 0900 KKKK 99.1 TX Odessa,
 "Your Love Station," w/gospel
 0910 KIWN 96.1 TX Harlingen
 0914 KTXN 98.7 TX Victoria
 0928 KAPX 97.3 TX Plainview, SCA music
 0936 KXZL 104.5 TX San Antonio, new calls
 for KVAR? Heard twice.
 0939 KTFM 102.7 TX San Antonio
 0943 KAJA 97.3 TX San Antonio, "KJ-97-FM"
 0950 KLLS 100.3 TX San Antonio, "Class-FM"
 0951 KOKX 101.5 TX Brownwood
 1000 KROC 93.5 TX Breckenridge
 1028 KQVE 102.9 TX Houston, SCA music
 (You counted this already on 6/25-ES)
 1040 WKIK 96.1 NC Shelby, (On tape - Only
 NC during opening)
 1050 KFMK 97.9 TX Houston
 1055 KNUV 101.5 TX Tyler
 1100 KAMU 90.9 TX College Station
 1101 WKGC 90.7 FL Panama City
 1105 KULN 98.3 TX Columbus
 1110 KPFE 98.3 TX Bonham
 1123 KORA 98.3 TX Bryan
 1130 KPEP 98.3 TX Gatesville
 1136 KAPM 92.5 TX Dallas-Fort Worth
 1137 KIKS 93.3 TX Killeen-Temple
 1216 KVLU 91.3 TX Beaumont
 1241 KBAT 93.3 TX Midland
 1259 KMTU 88.1 TX Denton
 1305 KTFN 93.3 OK Ada
 1310 KIKS 93.3 TX Killeen-Temple
 6/29 Es
 1911 WDBO 92.3 FL Orlando
 1930 WVFM 94.1 FL Lakeland
 1931 WUSF 89.7 FL Tampa
 6/30 Es
 1212 WPAP 92.5 FL Panama City
 1240 KRVS 88.7 LA Lafayette,
 (French Program-Cajun)
 1305 KSMB 94.5 LA Lafayette
 1600 KRWG 90.7 NM Las Cruces

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

3/17 tr
 1544 WKDS 89.9 MI Kalamazoo, ID
 6/9 Es
 1634 KTXT 88.1 TX Lubbock, r
 call letters heard
 1638 KQIZ 93.1 TX Amarillo, r,
 local ad
 1639 KBUY 94.1 TX Amarillo, k,
 local ad
 1646 KEZB 93.9 TX El Paso, b,
 local ad
 1650 KFIM 92.3 TX El Paso, r,
 call letters
 1659 KACV 89.9 TX Amarillo,
 local news
 1701 KENW 89.5 NM Portales, ID

6/9 Es
 1710 KEST 92.3 NM Albuquerque, ID, k 1200
 1711 KLYT 88.3 NM Albuquerque, "Albu-
 querque's alternative Christian voice"
 1724 KSEB 88.1 TX Humble, g, 940
 call letters
 1726 KIKK 95.7 TX Houston, local ad
 1736 KRTN 94.3 NM Raton, ID, 1025
 local news
 1744 KKKX 94.1 CO Montrose, k, 1160
 call letters
 1745 KVMV 96.9 TX McAllen, ID, g 1240
 1756 KIOU 96.5 TX Corpus Christi, b, 1125
 local ad
 1800 KTXN 98.7 TX Victoria, ID, b 1055
 1801 KZFM 95.5 TX Corpus Christi, r 1125

- Continued -

6/9 Es
 1822 KODK 92.7 TX Kingsville, r, 1155
 local wx, call letters
 1830 KEXX 93.9 TX Corpus Christi, r, 1125
 local ad
 1956 KWYK 94.9 NM Aztec, r, 1210
 local ads
 1958 KRAZ 96.9 NM Farmington, ID 1210
 2000 KRWN 92.9 NM Farmington, ID 1210
 2001 KRTZ 98.7 CO Cortez, ID 1220
 2003 KIQX 101.3 CO Durango, ID 1175
 2005 KNMI 88.9 NM Farmington, s/off 1210
 2017 KTIQ 102.8 CO Manitou Springs, 1000
 call letters
 2022 KCCY 97.9 CO Colorado Springs, 995
 local ad
 2024 KYNR 99.9 CO Pueblo, local ad 1000
 2026 KRCC 91.5 CO Colorado Springs, 995
 program promo
 6/12 tr
 0028 WKWC 90.3 KY Owensboro, r, 235
 ID and local promo
 1800 WMBN 96.3 MI Petoskey, ID, b 290
 6/15 tr
 0046 WFMR 98.3 WI Menomonee Falls, c 190
 call letters, local promo
 6/24 tr
 0626 WKOC 88.3 IL Kankakee, g, 125
 station promo
 0650 WCSJ 104.7 IL Morris, k, 150
 ID and local ad
 6/25 Es
 The following four stations were heard
 on car radio while driving about ten
 miles east of Huntington:
 2030 KKKK 99.1 TX Odessa, g, "Quad-K"
 Distances listed are approximate. E-skip
 has been rather disappointing so far this
 year. I missed a nice three hour opening
 on 6/25. Wasn't near a good receiver at
 the time. It's really good to hear WFMR
 again on 98.3. I'm glad some people still
 care about quality programming.

6/25 Es
 2030 KWJS 94.9 TX Arlington, local ad,
 call letters
 KITY 92.9 TX San Antonio, r,
 local ad
 KIXY 94.7 TX San Angelo, r,
 local weather
 6/26 Es
 1138 KNOR 92.9 NE Scottsbluff, r, 910
 local ad
 1139 KNEB 94.1 NE Scottsbluff, k, 910
 local PSA
 1142 KSID 98.7 NE Sidney, b, 875
 local ad
 1149 KTRS 95.5 WY Casper, r, 1035
 local promo
 1159 KAWY 94.5 WY Casper, r, ID 1035
 1203 KKBW 93.9 SD Rapid City, ID, b 890
 1209 KIQZ 92.7 WY Rawlins, 1085
 ad for local CATV
 1210 KRCS 93.1 SD Sturgis, 890
 call letters, local ad
 2000 KKBW 93.9 SD Rapid City, ID 890
 2004 KTAJ 93.9 WY Riverton, ID, r 1140
 2006 KQIZ 93.1 TX Amarillo, 950
 station promo
 6/29 tr
 2231 WTPC 101.5 OH Gallipolis, b, 220
 call letters, local weather
 2259 WXIZ 100.9 OH Waverly, s/off 175
 2320 WKBQ 96.9 TN Bristol, k, 340
 local weather
 6/30 tr
 0021 WZLE 104.9 OH Lorain, g, 155
 station promo, "Victory-105"
 0030 WCVO 104.9 OH Gahanna, ID 150

Ralph Strobel - 2300 E. McGalliard Rd. - Muncie, IN 47303
 Equipment: McIntosh MR-78; Channel Master # Probe 9 at 60 ft.

6/14 tr
 2100 WFLQ 100.1 IN French Lick, k\$, 150
 "Q-Country," o/WCRD
 6/15 Es
 1524 KBIL 92.9 TX San Angelo, r\$, 1100
 1613 KKKL 97.5 TX San Angelo, k\$, 1100
 1615 KWLW 93.9 TX San Angelo, "K-94" 1100
 6/25 Es
 1826 KQIP 96.9 TX Odessa, r\$, ads 1150
 1832 KWLW 93.9 TX San Angelo, ad 1100
 1841 KAOC 93.3 TX Port Lavaca, k\$ 1100
 1843 KBAT 93.3 TX Midland, k\$, wx 1140
 1847 KIKS 93.3 TX Killeen, r\$ 1000
 1909 KBIL 92.9 TX San Angelo, r\$ 1100
 1918 KLVU 98.7 TX Dallas-Fort Worth, 850
 r\$, "K-Love-FM"
 1921 KSCS 96.3 TX Fort Worth-Dallas 860
 1930 KBOO 99.9 TX Waco, r\$, ads 1060
 1935 KOKX 101.5 TX Brownwood, k\$, ad 1050
 1940 KTXQ 102.1 TX Fort Worth-Dallas, 860
 rp\$, "Q-102"
 1940 KOAX 105.3 TX Dallas-Fort Worth, 850
 b\$, "FM-105"

6/25 Es
 1945 KIOP 104.7 TX Lamesa, 1100
 r\$, ads, "K-105"
 1958 KPAC 90.9 TX San Antonio, c\$ 1110
 1958 KUP 90.5 TX Austin, ex-90.7 1050
 2008 KEAN 105.1 TX Abilene, "keen" 1040
 2030 KTXT 88.1 TX Lubbock, p\$ 1025
 2031 KFLQ 91.5 NM Albuquerque, g\$ 1250
 2035 KLLS 100.3 TX San Antonio, r\$ 1110
 2051 KL0L 101.1 TX Houston 960
 2100 KLTD 99.3 TX Lampasas, s\$ 1010
 2108 KKBQ 92.5 TX Pasadena-Houston, 950
 r\$, "93-Q-FM"
 2111 KLLL 96.3 TX Lubbock, ads, 1025
 k\$, "Triple-L"
 2115 KWJS 94.9 TX Arlington, g\$ 860
 2116 KKKL 97.5 TX San Angelo, k\$ 1100
 2129 KSUC 88.3 TX Keene, g mono 890
 2133 KIKK 106.1 TX Denton-Dallas, r\$ 880
 2134 KVIL 103.7 TX Highland Park-Dal-
 las, r\$, previous tr
 6/26 Es
 1140 KAWY 94.5 WY Casper, ad, "KY-94" 130

SOUTHERN FM DX

AUGUST 1983

SKIP SEASON FINALLY IN HIGH GEAR BY LATE JUNE

LATEST DEVELOPMENTS LOOK GOOD FOR JULY TROP

Jim Pizzi, P. O. Box 1778, Lovington, NM 88260 (505) 396-7432 - 5/27 to 7/5

5/27 tr
2049 **KECO** 96.5 OK Elk City, k, 279
promos, ID @2043

5/28 tr
2341 **KRST** 92.3 NM Albuquerque, k, nx, 240
ID @2355

5/30 Es
1106 **WJEL** 89.3 IN Indianapolis, tent, nx

6/4 Es
1222 **KZOZ** 93.3 CA San Luis Obispo, ads,
"Z-93" 1004

1224 **KUNA** 96.1 CA San Luis Obispo, EL
1225 **KFGA** 95.3 CA Pismo Beach 1003
1226 **KDDB** 92.5 CA Paso Robles, k 1012
1227 **KIQO** 104.5 CA Atascadero, r 1008
1235 **KCBX** 90.1 CA San Luis Obispo, j?

6/6 Es
1732 **WDAV** 89.9 NC Davidson, calls 1283
1735 **WLKI** 100.1 IN Angola, calls 1157

6/7 Es
1114 **KFPK** 90.7 CA Los Angeles, tent, talk
1116 **KDB** 93.7 CA Santa Barbara, tent, c
1117 **KZOZ** 93.3 CA San Luis Obispo, tent, r
1120 **KKDV** 105.9 CA Fresno, tent, r
1132 **KSBR** 88.5 CA Mission Viejo, calls
1133 **KHIS** 90.3 BC Tijuana, SS, L 797
1133 **NETRA** 91.1 BC Tijuana, EE, r, "91-X"
1842 **KOIT** 96.5 CA San Francisco, 1116
calls @1858

1843 **KLHT** 93.3 CA San Francisco, r, ads,
"K-lite-93FM"

1845 **KZST** 100.1 CA Santa Rosa, ID 1143
1847 **KYUW** 99.7 CA S. F., calls
1848 **KJAX** 99.3 CA Stockton, EL 1049
1848 **KDFC** 102.1 CA S. F.
1850 **KARA** 105.7 CA Santa Clara, ads 1084
1851 **KYLD** 105.5 CA Davis, k, ment. Woodland
1855 **KSGO** 99.1 CA Santa Cruz, calls 1089
1900 **KEBR** 100.5 CA Sacramento, EL 1071
1901 **KSNW** 104.7 CA Los Banos, calls 1019
1902 **KUUL** 92.1 CA Madera, L, SS 972
1904 **KEZR** 106.5 CA San Jose, r 1080
1905 **KBAY** 100.3 CA San Jose, ID @1907
1912 **KBLX** 102.9 CA Berkeley, ads 1110
1913 **KZFR** 102.9 CA S. Lake Tahoe, calls
1918 **KAGO** 99.5 OR Klamath Falls, ads,
"K-99" 1170

1921 **KSHA** 104.3 CA Redding, ads, calls 1125
1929 **KHOP** 104.1 CA Modesto, ads 1035
1929 **KPDJ** 92.3 CA Eureka, ads 1247
1932 **KMPT** 102.5 OR Newport, r, ads, 1346
Oregon Job list

1933 **KGCN** 92.3 OR Portland, calls, ad 1319
1934 **KICE** 100.7 OR Bend, ads, calls 1193
1936 **KGNR** 97.1 OR Portland, ads, ID @2007
1939 **KJTB** 99.5 OR Portland, calls 1319
1940 **KLNK** 101.9 OR Portland, r, calls
1941 **KLOO** 106.1 OR Corvallis, k, ads 1305
1942 **KLJK** 106.7 OR Lake Oswego, r 1317
1945 **KHFE** 107.9 OR Albany, "K-happy", calls

6/7 Es
1948 **KBIQ** 105.3 WA Edmonds, g, calls 1395
KRNO 106.9 NV Reno, ID 1008

1951 **XRTF** 105.9 MOR Guernavaca, tent, SS
1952 **KRCK** 101.1 OR Portland, calls 1319
1954 **KZEL** 96.1 OR Eugene, calls + "K-ZEL" 1283
2005 **KZZK** 102.7 WA Richland, EL 1225
2008 **CBU** 105.7 BC Vancouver, c 1472
2011 **KSND** 93.1 OR Springfield, r, calls 1283
2012 **KIZN** 93.1 ID New Plymouth, k, calls 1035
2018 **CBUP** 97.7 BC Vancouver, FF 1472
2021 **KAER** 92.5 CA Sacramento 1071
2022 **KFOX** 99.3 BC Vancouver, "C-fox" 1472
2022 **XHPOP** 99.3 DF Mexico City, "Musica 960
Felix" + calls (Think of the possible 2-hop
going on, and I'm in the middle.)

2030 **KUIC** 95.3 CA Vacaville, "Quick-95" 1109
2035 **KQO** 96.1 BC Vancouver, calls 1472
2040 **KQPM** 100.3 OR Portland, r, ID
2041 **KUPL** 98.5 OR Portland, EL
2043 **KXL** 95.5 OR Portland, r 1319
2044 **KNEV** 95.5 NV Reno, calls 1008
2050 **KKBC** 97.3 NV Carson City, k, 1008
"Sierra Country"

2052 **KVLY** 99.3 NV Fallon, r 963
2053 **KICN** 98.9 WA Spokane, g, calls 1224
2057 **unID** 91.1 N. W. BBC nx live via short-
wave

2101 **WVFW** 88.9 WV Buckhannon, calls 1350
2118 **KIDQ** 104.3 ID Boise, r, "Q-104" 990
(more 2-hop east-west)

2120 **KMKC** 106.9 ID Lewiston 1148
2121 **KMBI** 107.9 WA Spokane, g 1224
2122 **KGO** 103.7 S. F. 1116
2124 **KIOI** 101.3 S. F.
2129 **KONA** 105.3 WA Kennewick 1215
2132 **KMYT** 97.5 CA Merced 1004
2148 **KQED** 91.5 ?? ID-xlator?? (KQED 88.5)
2152 **unID** 99.1 west SS
2156 **KXBG** 96.1 OR Ontario, calls 2200 1040
2224 **KCPX** 98.7 UT Salt Lake City, r, ads 707
2225 **KMVC** 98.3 ID Burley, Rupert, ID 860
2234 **KMTV** 96.5 ID Twin Falls, ads, "K-96" 882
2320 **KRWQ** 100.3 OR Gold Hill, k, ads 1230
2323 **KCMX** 101.9 OR Ashland, r 1219
2326 **KEJO** 101.5 OR Corvallis, r 1305

6/8 Es
0001 **KCHO** 91.1 CA Chico, calls 1139
0002 **KJSN** 92.5 OR Klamath Falls, call @0005
0015 **KYLO** 105.5 CA Davis, calls @0100 1107
0021 **KXOA** 107.9 CA Sacramento, K-108FM 1071
0022 **KSTN** 107.3 CA Stockton, nx 1049
0025 **KJAZ** 92.7 CA Alameda, "K-Jazz" 1107
0029 **KQAK** 98.9 S. F., r 1116
0030 **KROK** 97.3 S. F., r, "rocker" + calls
0031 **KROY** 96.9 CA Sacramento, calls 1071
0034 **KJAX** 99.3 CA Stockton, EL 1049
0036 **KSAN** 94.9 S. F., k, calls @0038, "K-San"
cont..

Danny Buntin, editor
1312 N. Skyline
Stillwater, OK 74074
DEADLINE: 10th
(note new zip code)

SOUTHERN FM DX

6/8 Es
0037 **KPAY** 95.1 CA Chico, EL 1139
0040 **KFMR** 100.1 CA Stockton, k 1049
0041 **KFRN** 97.7 CA Los Altos, r, ID @0100
0050 **KTIM** 100.9 CA San Rafael, j, ads,
calls 1125
0055 **KFTV** 102.3 CA Modesto, Rock 103 1035
0058 **KMIX** 98.3 CA Turlock, k, ID 1039

6/9 Es
1503 **WVZK** 92.1 ME Traverse City, nx 1233
1504 **WFPS** 92.1 IL Freeport, nx, wx, ads,
calls 972

1506 **WJFM** 93.7 MI Grand Rapids, calls 1170
1506 **KSAY** 96.1 IA Clinton, calls 940
1509 **WJML** 98.9 MI Petoskey, ads, JML 1278
1511 **WKHQ** 105.9 MI Charlevoix, ads 1260
1513 **WNRW** 106.7 MI Gaylord, wx, nx, 1280
"Warm-107"

1517 **WTCM** 103.5 MI Traverse City, calls,
business report 1233
1518 **WQLZ** 105.1 MI Cheboygan, "QLZ" 1295
1523 **WISM** 98.1 WI Madison, tent, "Moving
Easy 98 - FM"

1524 **WNUZ** 103.5 MI Detroit, calls 1260
1526 **WSAQ** 107.1 MI Port Huron, FM107 1305
1532 **WNIC** 100.3 MI Dearborn, nx, calls 1255
1533 **WKKC** 102.9 MI St. Ignace, calls 1305
1535 **WSUE** 101.3 MI Sault Ste. Marie, 1340
"Radio Sue"

1633 **unID** N. E. "Scandia"
1635 **WVIB** 103.7 WI Ladysmith, g, promo 1076
1638 **WBFS** 92.5 ment. Rockford
1640 **WLFJ** 89.3 SC Greenville, g, calls
1658 **WDSC** 92.9 SC Dillon, ads 1373
1659 **WESC** 92.5 SC Greenville, "ESC" 1206
1700 **WBQQ** 104.3 GA Augusta, calls 1238
1701 **WYMX** 105.7 GA Augusta, calls 1238
1702 **WIGL** 106.7 SC Orangeburg 1300
1708 **WJAT** 98.3 CA Swainsboro, 1229
"J-98" + city

1710 **WDEB** 105.3 GA Macon, FM-105 1148
1711 **WCKN** 101.1 SC Anderson, calls 1197
1730 **WHMK** 89.7 SC Columbia, g, calls
1734 **WHRK** 98.1 AL Fayette, ads 900
1739 **WSB** 98.5 GA Atlanta, ads 1098
1741 **unID** 99.1 east ads for Atlanta
1750 **WHMA** 100.5 AL Anniston, calls 1013
1753 **KYSM** 103.9 MN Mankato, calls 914
1755 **WCCO** 102.5 MN Minn.-St. Paul, ads
1757 **KBWH** 106.3 NE Blair, wx, calls 698
1759 **KEEY** 102.1 MN St. Paul-Minn., k, 968
calls @1800

1801 **WBGW** 98.9 FL Tallahassee, ID 1233
1804 **WTZA** 95.3 GA Thomaston, ads 1103
1806 **WYAL** 93.7 MN Minn.-St. Paul, IL
1808 **KSTP** 94.5 MN St. Paul, r 968
1809 **KDWB** 101.3 MN Richfield, r 960
1811 **KQRS** 92.5 MN Golden Valley, r, calls
1814 **WTWV** 95.5 AL Dothan, ads 1067
1815 **KYCK** 97.1 MN Crookston, calls 1088
1817 **unID** 96.5 east or north, Magic 96-FM
1819 **KNKR** 97.5 MN Rochester, ads 945
1820 **KROC** 106.9 MN Rochester, ads 945
1828 **WAXX** 104.5 WI Eau Claire, ads 1012
1829 **WJMT** 93.5 WI Merrill, calls 1094
1830 **KPFL** 103.1 MN Preston, ads, calls 954
1832 **WLJY** 106.5 WI Marshfield, calls 1058
1836 **WIMI** 99.7 WI Ironwood, calls 1143
1837 **WCBM** 102.3 WI Viroqua, promos 977
1840 **WVRW** 103.3 WI Wisconsin Rapids, 1053
r, "W-103"

Pizzi, cont.
6/9 Es

1842 **WLST** 95.1 WI Marinette, ads 1157
1843 **WYKS** 104.7 MI Escanaba, tent, "Kicks 104"
1854 **WAPL** 105.7 WI Appleton 1098
1902 **WBWA** 105.9 WI Washburn 1125
WCCN 107.5 WI Niellsville, ads
1916 **WCFW** 105.5 WI Chippewa Falls, ID 1022
1917 **WRHN** 107.9 WI Rhinelander, ads, EL 1125
1921 **WRVM** 102.7 WI Suring, g 1129
1922 **WDEZ** 101.9 WI Wausau, k, calls 1080
1924 **WTBA** 101.5 WI Madison, r 1013
1927 **WAQE** 97.7 WI Rice Lake, ads 1049
1930 **WGLQ** 97.1 MI Escanaba, calls 1202
1930 **WCOW** 97.1 WI Sparta, calls 1004
1933 **WYKX** 104.7 MI Escanaba, calls 1202
1935 **KBHW** 99.5 MN Int. Falls, g 1168
1937 **WRLO** 105.3 WI Antigo, calls 1105
1940 **WNEK** 93.5 WI New London, ads 1095

6/10 Es
0902 **WPLN** 90.3 TN Nashville, calls 968
0915 **WVCF** 88.5 TN Gallatin, calls 971

6/11 Es
1817 **KHME** 89.5 JAL Puerto Vallarta, calls +
"Estereo Sol", Eng. & L, r 840
1826 **XHNP** 89.3 PUE Puebla, SS, L mx, 985
"Tropicalida" spelling?
1827 **XHRS** 90.1 PUE Puebla, "Radio Lobo" SS
1830 **XHM** 88.9 DF Mexico City, r, Eng mx, \$, SS
1837 **KEBS** 89.7 " ", c, "Estereo
M11" SS
1838 **XHRF** 88.1 " ", EL, SS
1840 **KEDA** 90.5 " ", SS
1842 **KEQK** 91.3 " ", SS
1843 **XHJL** 91.6 Guadalajara, r Eng. mx, 840
still off freq 91.5
1844 **XHEM** 92.5 PUE Puebla, r Eng. mx \$ 985
1852 **XHRH** 93.3 PUE Puebla, SS
1854 **KEJP** 93.7 DF MX City, SS, "Radio Couda" ?
tr

1900 **KRTU** 91.7 TX San Antonio, call "TU-FM"
Es
1924 **XHRI** 92.5 MEX Toluca, r, \$, Eng. mx,
"El Eyaha en Toluca" ?? 960
1927 **XHSH** 95.3 DF MX City, "Radio Amistad"
1928 **XERC** 97.7 " ", r
1929 **XEQR** 107.3 " ", SS
1939 **XHFO** 92.1 " ", SS, EL \$,
"Cristofolo FM"

6/12 tr
0834 **KCPS** 98.9 OK OKC, new cl?? (yes, DE)

6/14 tr
1203 **KYSR** 97.5 TX El Paso, calls
Es
1405 **XHME** 89.5 Puerto Vallarta, ads 840
1407 **XHM** 88.9 DF MX City, rock Eng.
1411 **XHIS** 90.3 BC Tijuana, L "Radio Mas" 797
1412 **XETRA** 91.1 " ", r Eng.
1427 **XHRM** 92.5 " ", r
1432 **XHB** 99.7 " ", L
1438 **XHERS** 104.5 " ", L, ads

6/15 Es
1102 **WCRJ** 107.3 FL Jacksonville, k 1300
1103 **WQHL** 98.1 FL Live Oak, A nx 1220
1105 **WNFY** 99.9 FL Palatka, tent
1107 **WAIY** 96.9 FL Jacksonville, ads, wave 1300
1107 **WQIK** 99.1 FL Jacksonville, calls 1300
1108 **WPUV** 97.5 FL Winter Haven, k 1350
1110 **WCLF** 104.1 FL Tallahassee, ads 1233
1111 **WACL** 103.3 GA Waycross, r 1240
cont...

SOUTHERN FM DX

Pizzi, cont.

AUGUST 1983

6/15 Es
1113 WKZT 96.1 FL Jacksonville, EL 1300
1114 WBAZ 94.5 GA Baxley, tent., EL
1116 unID 90.7 east, c "354-0090" pledge #
1119 WJIZ 96.3 GA Albany, tent, r
1122 unID 97.7 east 40's mx
1123 WDMC 99.5 GA Douglas, calls 1202
1127 WTLG 88.3 FL Starke, g wx, 1278
calls @1130
1157 WSPF 90.1 FL Ft. Myers, tent,
"FM-90", SS after 1200
1336 WMYU 102.1 TN Sevierville, U-102 1135
1337 WEZK 97.5 TN Knoxville, EL, 97FM1125
1339 WNKX 95.3 TN Clinton, "Kicks 1107
Country" @1354 ads
1355 WKOS 96.3 TN Murfreesboro, 977
"96-kos"
1359 WRBH 88.3 LA New Orleans, ID 819
1400 WFTU 88.5 TN Cookeville, ID 1035
1400 WETS 89.5 TN Johnson City, ID 1215
1405 WSM 95.5 TN Nashville, 968
"Nashville 95-FM" (#700)
1406 WKCC 96.5 WV Williamson, ads, nx 1220
1408 WSPJ 98.9 KY Paintsville 1195
1410 unID 97.5 east rock "Canoa Valley"
1414 WRBZ 98.3 TN Camden, ads "McKenzie
1414 WBKV 99.5 WV Beckley, k 1292
1415 WANY 106.3 KY ads "Albany" 1156
1416 WQLA 104.9 TN La Follette, ads "clinton"
1417 WSGS 101.1 KY Hazard, ads "vicco"
1419 WKBJ 92.3 TN Milan, k, ads 755
"Dyersburg"
1423 WCTT 107.1 KY Corbin, r, calls 1112
1424 WHAJ 104.5 WV Bluefield, "J-104, 1274
ads, r
1426 WVAF 99.9 WV Charleston, r, 1256
"V-100", r
1426 WKQQ 98.1 KY Lexington, r 1103
"Double Q"
1427 WQHY 95.5 KY Prestonsburg, ads 1193
1438 WOKI 100.3 TN Oak Ridge, ID, r 1103
1442 unID 96.5 "Coal Country"
1443 WQBE 97.5 WV Charleston, ads 1256
1444 WMOR 92.1 KY Morehead, calls 1161
"swap shop", r
1448 WAMZ 97.5 KY Louisville, ads 1049
1449 WSEK 96.7 KY Somerset, ads, r 1094
1450 WTFM 98.5 TN Kingsport, EL, calls
1508 WHBN 99.3 KY Harrodsburg, ads 1080
1509 WQXE 100.1 KY Elizabethtown, QXE 1035
1511 P?KI 99.3 east letters QI in calls?
1513 WKOA 100.3 KY Hopkinsville, r, 932
"885-K100" phone #
1514 WWEL 103.9 KY London, calls 1130
1515 KSTG 97.7 MO Sikeston, ads 819
1515 WJSN 97.7 KY Jackson, call, ads 1170
1604 WNKJ 89.3 KY Hopkinsville, wx, 932
"Hopkinsville"
6/20 tr
0955 KKRD 107.3 KS Wichita, calls 461
1005 KFDI 101.3 KS Wichita, ad, calls
1006 KXCV 90.5 MO Maryville, nx, wx, 689
calls
1013 KHUT 102.9 KS Hutchinson, k, k-hut 464
1015 KSKU 102.1 KS Hutchinson, r, "U-102"
6/22 Es
1948 KGON 92.3 OR Portland, r, ads, calls
1949 KXL 95.5 OR Portland, IL
1950 KOAP 91.5 OR Portland, tent
1952 KIQU 103.7 OR Lebanon, r, calls
@2006 1294
1954 KLOO 106.1 OR Corvallis, ads 1305

6/22 Es

2001 KMJK 106.7 OR Lake Oswego, r 1317
2005 KUPL 98.5 OR Portland, EL 1319
2007 KJIB 99.5 OR Portland, k
2008 KQFM 100.3 OR Portland, r
2008 KICE 100.7 OR Bend, k 1193
2009 KRCK 101.1 OR Portland, r
2011 KHFE 107.9 OR Albany, sports 1304
2012 KBOO 90.7 OR Portland, tent black jazz
very rapid fade out

6/23 Es

1938 KDNA 91.9 WA Yakima, SS 1274
1943 KKPL 96.1 WA Opportunity, r?, ads 1224
in Spokane
1952 KEZE 105.7 WA Spokane, r, ads 1224
1953 KNOK 106.9 ID Lewiston, calls 1148
2006 KBQK 96.1 OR Ontario, calls 1240
2009 KSNB 93.1 OR Springfield, r, ads 1283
2014 KEMC 94.5 OR Eugene, calls 1283
tr
2027 KHXY 96.3 TX El Paso, ads, "Y-96" 201

6/24 Es

0612 WNNF 88.5 FL Tampa, mx calendar, promo
reggae concert, calls 1305
WUSF 89.7 FL Tampa, tent, c
WGIC 91.1 FL Lakeland, tent, g

6/25 tr

1431 KXXY 96.1 OK OKC "KXY" 380

Es

1440 XHPR 101.3 VER Veracruz, SS, ads 1032
1443 XHLC 98.3 GTO Leon, SS, L 810
1447 XHSO 99.9 GTO Leon, SS, L
1448 XHPO 97.5 GTO Leon, SS, L
1449 XHRR 96.5 VER Veracruz, SS 1032
1531 WFGT 90.1 NC Roanoke Rapids, tent g
1532 WMRK 89.7 SC Columbia, tent, g
1537 WSDM 101.3 SC Sumter, ads 1325
1539 WSSL 100.5 SC Laurens, whittle-100
1542 WRQK 98.7 NC Greensboro, calls 1350
1544 WQLS 100.7 TN Cleveland, ads, QS-100 1058
1547 WPEB 97.9 NC Concord, r, calls 1285
1552 WSB 98.5 GA Atlanta, wx, r, ads 1098
1554 WCKN 101.1 SC Anderson, ads, r 1197
1600 WLRH 89.3 AL Huntsville, calls 968
1600 WMO 102.1 NC Reidsville, ID 1360
1601 WTQR 104.1 NC Winston-Salem, ID 1328
1624 WKA 92.3 FL Orlando, k, wx @1636 1359
1628 WGYL 93.5 FL Vero Beach, calls 1440
1631 WTLN 95.3 FL Apopka, tent, g
1635 WPCV 97.5 FL Winter Haven, k 1350
1637 WNFY 99.9 FL Palatka, ment. "Putnam
Co." "100" 1319
1642 WBJW 105.1 FL Orlando, "BJ-105" 1359
1649 WHOO 96.5 FL Orlando, calls, who-FM
1650 WRYO 98.5 FL Crystal River, g, 1265
calls @1700

1700 WQHL 98.1 FL Live Oak, ID 1220
1701 WFAV 98.3 GA Cordele, calls 1140
1704 WQTK 99.1 FL Jacksonville, k, calls 1300
1705 WFTW 99.3 FL Ft. Walton, "Gulf
Coast Radio 99" 1013

1724 WKGQ 106.1 MD Cumberland, ads, 1426
"CO-106"

1725 WFRB 105.3 MD Frostburg, calls 1414
1727 WKWK 106.5 WV Clarisburg, k, ads 1337
1731 WZXR 102.7 TN Memphis, ads 784
1733 WKOZ 103.3 AR Mountain View, calls 662
1735 WRGC 102.9 MD Cumberland, k, tent
1737 KJBR 101.9 AR Jonesboro, r, "J-102" 747
+ calls @1743
cont.....

SOUTHERN FM DX

Pizzi, cont.

AUGUST 1983

1741 WSGS 101.1 KY Hazard, ads
1743 WOMP 100.5 OH Bellaire, ment. 1320
Wheeling, WV
1753 WIVK 107.7 TN Knoxville, calls 1125
1755 WYQC 102.9 TN Shelbyville, C-103 977
+ calls
1815 WEMM 107.9 WV Huntington, calls 1229
1818 WTNJ 105.9 WV Mount Hope, FM-106 1300
1822 WVAF 99.9 WV Charleston, ads 1256
1824 WNGO 101.3 OH Ashland, k, 1265
calls @1830
1826 WCLT 100.3 OH Newark, r, T-100 1247
1828 WESB 100.7 OH Springfield, g, calls
1831 WTCR 103.3 WV Huntington, calls 1229
@1919 + "All new FM-100"
1836 WRMZ 99.7 OH Columbus 1215
1840 WTUE 104.7 OH Dayton, "TUE" 1152
1844 WKBE 100.5 WV Huntington, ads 1229
1846 WVLK 92.9 KY Lexington, k, k+93 1103
1849 WAZU 102.9 OH Springfield, AZU 1170
1852 WDAO 107.7 OH Dayton, calls 1152
1853 WNCI 97.9 OH Columbus, promos, r 1215
1854 WSKS 96.5 OH Hamilton, ads 1130
1900 WGTG 92.3 IN Bloomington, ment. 1022
"Monroe Co."
1904 WAKW 93.3 OH Cincinnati, nx, wx 1125
1911 WKWK 97.3 WV Wheeling, "WK" 1328
1912 WVUD 99.9 OH Kettering, calls 1150
1914 WBNB 97.1 OH Columbus, r, calls 1215
1928 WHTY 96.9 PA Braddock, "Y-97" 1383
1930 WTOP 98.1 OH Canton, calls 1305
1931 WTLG 105.7 IN Indianapolis, ads 1059
1934 WELA 104.3 IN East Liverpool, cl 1347
1935 WQJK 105.1 OH Salem, k, calls 1328
1938 WWSK 106.7 PA Beaver Falls, 1364
"Kiss-107 FM"
1941 WDSY 107.9 PA Pittsburg, ads, cl 1373
1943 WAMO 105.9 PA Pittsburg, calls
1947 WMD 104.7 PA Pittsburg, calls
1950 WHTX 96.1 PA Pittsburg, r, calls
1952 WKSX 99.5 OH Cleveland, "KS-100
Country" 1310
2000 WPTW 95.7 OH Piqua, calls 1152
WTHI 99.9 IN Terre Haute, "I-99" 981
2022 WBLZ 103.5 OH Hamilton, ads 1130
2027 WSRW 106.7 OH Hillsboro, ads 1170
2032 WQBE 97.5 WV Charleston, k 1256
calls @2037
2033 WWWW 107.7 VA Warrenton ads, K1081463
2039 WFLB 107.3 MI Greenville, k, calls
2043 WUPM 106.9 MI Ironwood, tent., sounded
like WFBM
2047 WHBN 99.3 KY Harrodsburg, nx 1080
2055 KBMO 93.5 MN Benson, nx, KB-93 932
2059 WHPW 89.9 WV Huntington, calls 1229

6/26 Es

1644 KOZE 96.7 ID Lewiston, ads, EL 1148
1645 KXLY 99.9 WA Spokane, EL calls 1224
1646 KIOB 103.1 ID Coeur D'Alene, r, 1205
ads, "K-103" @1715
1647 KEZE 105.7 WA Spokane, r, ads 1224
1649 CBTA 106.7 BC Trail, CBC @1700 nx 1305
1650 KMBI 107.9 WA Spokane, g 1224
1702 KDRK 93.7 WA Spokane, calls
1710 KKPL 96.1 WA Opportunity, ads 1224
1711 KMCK 106.9 ID Lewiston, tent.
1719 KZQK 100.1 MT Missoula, r, ads 1107
1724 WHQ 98.1 WA Spokane, r, tent
1728 WFBX 91.1 WA Spokane, ID 1224
1737 WNGF 96.5 WI Milwaukee, calls 1067

6/26 Es

1742 KQRR 92.3 MT Roman, "KQ-92", ads 1121
1744 KQUY 95.5 MT Butte, ads, Y-95 1004
1746 WTCM 103.5 MI Traverse City, ads 1233
1748 WJEB 103.1 IL Macomb, calls 865
1757 CJAY 92.1 AT Calgary, "CJ-92" 1328
1758 CBR 102.1 AT Calgary, ID
1759 CKO5 103.1 AT Calgary, ID, nx
1800 CKRY 105.1 AT Calgary, nx
1814 WJPD 92.3 MI Ishpeming, calls 1215
1829 WMBN 96.3 MI Petoskey, calls 1278
1834 WBNZ 99.3 MI Frankfort, calls 1202
1836 unID 100.9 Polish?
1839 WCUZ 101.3 MI Grand Rapids, "CUZ" 1170
1845 WLEW 92.1 MI Bad Axe, wx, calls 1301
1959 WDJQ 92.5 OH Alliance, ads 1319
2000 WPKX 95.9 PA Brookville, calls 1440
2203 CBKFM 91.9 SK Bellegrade, ID, FF 1644
2228 KYA 93.3 MT Billings 900
2233 CBKF 97.7 SK Regina, FF 1188
2235 C??? 100.5 AT?, FF (Is Medicine Hat on?)
2237 CHFA-1 104.3 AT Lethbridge, FF 1215
2238 CILA 107.7 AT Lethbridge, j
2240 CKIK 107.3 AT Calgary, r, wx @2248 1328
2242 CKUAC 101.3 AT Red Deer
2244 CKUA2 99.3 AT Lethbridge 1215
2251 KCDQ 96.7 MT Belgrade, calls 977
2302 KALS 97.1 MT Kalispell, calls, s/off
2304 CBBC 91.7 AT Lethbridge, ID-"102.1
Calgary, 91.7 Lethbridge" 1215

6/27 Es

1931 WJJO 98.1 MN St. Cloud, ads 973
1937 WJXX 107.1 WI New Richmond, calls 990
1940 WAQE 97.7 WI Rice Lake, r, ID @1957 1049
1942 KIBT 97.7 IA Humbolt, calls 824
1943 WTBX 93.9 MN Hibbing, calls, ads 1112
1949 WAKX 98.9 MN Duluth, r, "wax-99", 1094
promo
1954 KTCR 97.1 MN Minneapolis, calls 968
2000 KNS 96.9 MN Grand Rapids, nx 1085
2001 KIQP 92.1 MN Madison, calls, nx 900
2006 WCTS 100.3 MN Minneapolis, g 968
2010 WCCO 102.9 MN Minneapolis, "GM-103" 968
2011 WWIB 103.7 WI Ladysmith, g 1076
2108 WAVC 105.1 MN Duluth, calls, promo 1094
2026 KQRS 92.5 MN Golden Valley, calls 968
2029 KFWW 97.9 ND Fargo, g, calls
2030 WSPF 97.9 WI Stevens Point, calls 1067
2037 KEEY 102.1 MN St. Paul, k, K-102 968
2042 KVMN 107.9 MN Anoka, ch 29 promo, 977
"K-twin" @2043
2101 KQJB 97.1 MD Minot, calls 1035
2104 KJKK 96.5 MN Fergus Falls, "96-FM" 977
calls @2115
2106 KPRM 97.5 MN Park Rapids, calls, s/off
2114 WFTM 98.7 IL Chicago, calls 1049
2118 KLFM 102.9 MT Great Falls, calls @2128,
k 1205
2133 KZZK 92.9 WA Richland, ads 1225
2134 KIOB 103.1 ID Coeur D'Alene, promos 1205
2146 KEZE 105.7 WA Spokane, calls 1224
2147 KYBS 97.5 MT Livingston, calls 932
2153 KTAG 97.9 WY Cody, r, "Tag-98" 842
2156 KICE 100.7 OR Bend, calls 1215
2200 KPRB 102.9 OR Redmond, calls 1193
2205 KIDX 98.5 MT Billings, nx, ID 900
2206 CBUF 97.7 BC Vancouver, FF 1472
2215 KHQ 98.1 WA Spokane, calls 1224
6/29 Es
1728 CJAY 92.1 AT Calgary, CJ-92, promos
cont.

6/29 tr	
1729 KANZ 91.1 KS Garden City, ment.	360
Garden City sponsor	
Es	
1731 CHFM 95.9 AT Calgary, tent, r	
1801 XHNP 89.3 Puebla, r, L, SS	985
1804 XHNP 89.3 Mx City, \$, ment. Guad.	
In ID once	
1808 XEBS 89.7 Mx City, c	960
1809 XHRF 88.1 Mx City, Eng.	
1810 unID 90.1 MX south, c	
1810 XEDA 90.5 Mx City	
1811 XHRC 91.7 Puebla, r	985
1813 XHBST 104.9 Mx City, EL? talk	960
1814 XEQR 107.3 Mx City, r	
1816 XEW 96.9 Mx City, r, Eng. mx	960
1817 XHMM 100.1 Mx City, r, Eng mx	
1818 XHAV 100.3 Guad. r	840
1819 XHZA 101.3 Toluca, tent, "Estereo Sol" r	
1820 XHV 102.5 Mx City, r	960
1820 XHFRM 103.3 Mx City, r (disco?)	
1822 XHPOP 99.3 " " EL	960
1823 XELA 98.5 " " "	
1824 XHSOW 100.9 " " r	
1828 XHOF 105.7 " " EL	
1829 XHDFM 106.5 " " L	
1832 XHENO 101.5 Guanajuato, L, SS, \$, ID	
1838 XHLC 98.3 Leon, L	810
1839 XHPQ Leon, ID " \$ Nova"	
1840 XHGD 92.3 Guad., L, ID as "XHBIO"	
@1900	
1842 XHOI 92.3 Leon, tent. r	
1843 XHOY 90.7 Guad, L	840
1850 XHFO 92.1 Mx City, r	960
1854 WJYJ 106.7 MN Brainerd, k, promo	
ment Brainerd	1018
1905 KPQX 92.5 MT Havre,wx, QX-92FM1103	

6/30 Es	
0847 WRKT 104.1 FL Cocoa Beach, k, calls	1409
tr	
0854 KBUZ 106.5 KS Arkansas City, calls, r	441
0857 KCSC 90.1 OK Edmond, promos	383
Es	
0900 WUFT 89.1 FL Gainesville,wx,calls,c1274	
0902 WPIO 89.1 FL Titusville, calls, g	1382
0903 WRMB 89.3 FL Boynton, g	1485
0904 WMFQ 92.7 FL Ocala, ads, wx, Q-92	1292
0917 KFBX 91.1 WA Spokane, nx	1224
0929 KSRA 92.7 ID Salmon, calls	990
7/1 tr	
0845-59 OK OKC FMs	380
0851 KBUZ 106.5 KS Arkansas City, ID 1900	441
0904 KHME 96.7 OK Comanche, nx, call	315
7/2 Es	
1159 KNAQ 92.1 ID Rupert, ID @1201	842
1200 KFAE 89.1 WA Richland, ID	1225
7/3 Es	
1132 WPAP 92.5 FL Panama City, ID	1071
1134 WPCS 89.3 FL Pensacola, tent, g	
1357 WRFR 96.7 NC Franklin, NC nx	
1358 WSPA 98.9 SC Spartanburg, ment. "Gaffney"	
1358 WXLK 96.1 NC Shelby, wx for	1247
Shelby	
1400 WYGF 91.1 SC Gaffney, ment.	1238
"Gaffney"	
1400 WSMC 90.5 TN Collegedale, calls	1045
1402 WQMG 88.3 NC Boiling Springs, NC nxi242	
1402 WFDL 88.5 NC Winston-Salem, calls	1328
7/4 Es	
1327 WBTR 92.1 GA Carrollton, ads, ment.	
"Newman"	
1328 WAGC 90.7 GA Augusta, calls	
7/5 Es	
0843 KOLL 93.5 WY Gillette, ads, calls	783

Heavy duty report this time around. Es has been intense and long! 6/4 Es brought some familiar stations from CA. Looked for Santa Maria & Lompoc, but nothing! Very narrow opening. KSBY-6 only TV in. I almost missed this one--nothing on chs 2-5. 6/6 Es was brief but a couple of new ones. Now 6/7 and 8 was great. Brief in the morning but five hours worth in the evening. Kept bouncing from CA to ID, WA. At 2022 heard XHPOP ID & CPOX--good 2 hop potential--maybe some Oregon or WA DXers heard this. 6-9 Es just as good--from 2 directions. WI, MN, MI, NE, IL & IA in with SC,GA,AL & FL. 6/10 Es brief but productive. 6-11 had a beautiful opening into Mexico City area. XHRS IDed as "Radio Lobo", previously listed as XHNP 89.3 which is L mx, SS. My spellings of call slogans is phonetic, if not known, for us gringos! XHJL still at 91.6 instead of 91.5, maybe intentional, but I doubt it. 6/14 very narrow too(re 6-4). Very brief to Mx City & P. V. 6-15 another 5 hours of great DX. 6-25 had 6 1/2 hrs. of Es. You start to get punchy after a while. From about 1730 to 2000 AT-V04 was on the verge of overload(no FM pre-amp). Signals became 3 or 4 deep per FM ch. 6-26 & 6-27 were excellent days, too. 6-29, a great opening into old Mexico w/XHENO 101.5 Guanajuato, the highlight as it must be new on the air (no FM Atlas or OMDAS listing) A few new states this report (PA, MD & Guan. MX). Log is well over 800 and hopefully more Es to come. 73's, best of DX, Jim.

Bill Townshend, 4500 Conn. Ave. NW #901, Washington, DC 2008	
Equipt: Sony ICF-S5W, Realistic Patrolman CB-8	
6/14 tr	6/17 tr
0829 WNNN 101.7 NJ Canton, g	0819 WQMS 100.5 VA Norfolk, k
6/16 tr	0821 WMTN 95.9 DE Bethany Beach, "96-rock"
0034 WOLC 102.5 MD Princess Anne, g	0847 WMYK 93.7 NC Elizabeth City, K-94 ID
0108 WKHI 99.9 MD Ocean City, r	2239 WNVZ 104.5 VA Norfolk, r, (ex-WQRK)
0809 WRVQ 94.5 VA Richmond, Q-94 ID	Z-104, in all night
0816 WTVR 98.1 VA Richmond, k, \$ country	

Looks like I cleaned up last week on trop, which has now quieted down. Night-time reports from Chevy Chase section of DC, which is the FITS as far as this kind of DXing is concerned. Daytime reports from office at Marlow Heights, MD, seven miles SE of U. S. capitol, far enough from tower farm and image jungle. 73's

MORE SFM CONT...

Danny Buntin, 1312 N. Skyline, Stillwater, OK 74074 CDT	
Equipt: Pioneer TX-9100 tuner, Antennacraft GF-10 30 ft. high with Archerotor	
6/29 Es	
1000 KOCV 91.3 TX Odessa, ID	420
1002 KICA 107.5 NM Clovis	360
1007 KHBQ 107.1 TX Canyon, r, Q-107, ad	305
and nearly all in from Amarillo 290 mi.,	
Lubbock, 325; Midland, 400 and Odessa,	
TX 420.	
6/21 tr	
0050 KBAT 93.3 TX Midland, wx, ID, k	400
6/23 Es	
1459 KZQZ 93.3 CA San Luis Obispo, ID	1340
6/25 Es	
2019 WDOQ 101.9 FL Daytona Beach, ads, 1230	
wx, r	
2031 WWJF 106.7 FL Ft. Lauderdale, ad, Joy-107	
2032 WWOJ 106.3 FL Avon Park, ID	
2037 WKTC 104.3 NC Tarboro, ID, k	
2040 WKZZ 107.5 NC Winston-Salem, 107-FM KZL	
2046 WNGT 107.7 NC Greenville, ID	
2048 WRAL 101.5 NC Raleigh, ad	
2051 WRMF 97.9 FL Palm Beach	
2057 WVSP 90.9 NC Warrenton, ID	
2100 WYXJ 90.5 VA Fredericksburg, ID	
2102 WJYO 107.7 FL Mount Dora, Joy-108	
2123 WZBO 102.3 NC Edenton, ID	
2132 WLRN 91.3 FL Miami, ID, j	
2159 WMCU 89.7 FL Miami, ID	1230
2201 WINZ 94.9 FL Miami Beach, I-95.	
2207 WRMB 89.3 FL Bointon Beach, ID, nx	
6/26 Es	
1019 WAER 88.3 NY Syracuse, ID	1200
1023 WBCM 88.1 OH Bowling Green, ID	
1034 CKDS 95.3 ON Hamilton, ID	
1110 WGLQ 97.1 MI Escanaba, ID	
1112 WQXO 98.3 MI Munising, QXO	
6/27 Es	
2209 KZAN 97.9 UT Ogden, ID	910
2239 KISN 97.1 UT Salt Lake City,	905
"Kissing 97"	
2245 KTLF 92.1 UT Tooele, ID	
2250 KSOP 104.3 UT Salt Lake City, nx	
6/28 Es	
1100 KCLR 90.7 ID Twin Falls, ID	1030
1101 KPKY 94.9 ID Pocatello, ID, 95 Alive	
1102 KREJ 95.7 ID Twin Falls	
1117 KMVC 98.3 ID Burley, ID	1000
1118 KFMA 102.9 ID Jerome, ad, Z-103	
1122 KTAC 97.9 WY Cody, ad, "Tag-98"	850
1159 WAMU 88.5 DC Washington, ID	1105
1203 WADU 94.5 PA Lancaster, ID	
1212 WILX 101.1 WI Green Bay, ID	
1215 WJFD 92.3 MI Ispeming, k, ID	
1302 KFAE 89.1 WA Richland, c, ID	1340
1305 KTOK 94.9 WA Richland, OK-100, ads, r	
1318 WFXD 94.9 ID Nampa, ID, ads, r	1160
6/29 Es	
2003 WQHQ 104.7 MD Ocean City, QHQ-105, ads	
2005 WSPF 106.3 MD Cambridge, ad, ID	
2007 WKHI 99.9 MD Ocean City, "KHI"	
2009 WDMH 97.7 MD Lexington Park, ID	
2010 WOCG 103.9 MD Berlin, OC-104, ads	
2013 WCVL 103.1 VA Culpepper, ads	
2021 WPOC 93.1 MD Baltimore, ID, k	1125
2027 WASH 97.1 DC Washington, "Was-FM"	
2032 WFPJ 96.9 NJ Atlantic City	
2042 WXDR 91.3 DE Newark, reading of events, was tent., now verified, 1 kw.	1215
6/30 tr	
0859 KSDB 88.1 KS Manhattan, ID, \$,	220
(interesting for being -38', 105 wts.)	
0900 KIWR 89.7 IA Council Bluffs, ID	365
0900 KCMW 90.9 MO Warrensburg, ID	260
7/1 tr	
0042 WQCY 99.5 IL Quincy, ID, wx, b	410
0116 WCBU 89.9 IL Peoria, ID	515
0159 WOI 90.1 IA Ames, ID	460
0205 KMMU 90.7 MO St. Louis, ID, c	410
0206 WLL 92.3 MO St. Louis, ID, k	
7/3 tr	
0946 KQIP 96.9 TX Odessa, ID, r	400
0951 KPER 97.7 NM Hobbs, ID, wx, k	420
plus many in from the TX panhandle	
Es	
1531 WSSX 95.1 SC Charleston, ID, r	
1536 WFBM 95.9 SC Aiken, ID, r	
1537 WORG 103.9 SC Orangeburg, ID, ad	920
1550 WNEZ 99.3 SC Aiken, ID, b	
1559 WKRT 98.3 SC Kingstree, ID b-game	
1600 WMHK 89.7 SC Columbia	820
1828 WSCI 89.3 SC Charleston, ID	1030
1859 WPCM 101.1 NC Burlington, ID	
1900 WQMG 97.1 NC Greensboro, ID	
1901 WSHA 88.9 NC Raleigh, ID	1060
1904 WKNC 88.1 NC Raleigh	
1905 WKJA 92.1 NC Belhaven, "92-KJA", ad	
1912 WFOC 98.3 NC Murfreesboro, ID	
1913 WBOB 98.1 VA Galax, ID	
1919 WZBO 192.3 NC Edenton	
1921 WLTY 95.7 VA Norfolk	
1923 WXIL 95.1 WV Parkersburg, "95-XIL"	
1934 WEXB 100.1 NC Edenton, ad, ID	
1936 WEZR 106.7 VA Manassas	
1939 WNVZ 104.5 VA Norfolk, wx, Z-104	1110
1947 WCAV 99.5 DC Washington, ID, b	
1954 WSUX 98.3 DE Seaford, ID	1225
2000 WMUL 88.1 WV Huntington, s/off	
2014 WBSB 104.3 MD Baltimore, ads, Am. Top 40	
2032 WNCB 101.3 PA Lancaster, "Nice"	
2034 WNCQ 98.7 DC Washington	1105
2036 WPOC 93.1 MD Baltimore	
2038 WQCM 96.7 MD Halfway, ID	
2043 WJBR 99.5 DE Wilmington, ID	1230
2051 WSNL 104.5 PA Philadelphia, ID	1220
2055 WSTW 93.7 DE Wilmington, ID, wx	
2105 WQRP 88.1 OH West Carrollton, ID	
2114 WMUL 88.1 MD College Park, ID, j,	1110
(3', 10 wts. At times in stereo while	
nearby DC stations in like gang busters.)	
2130 WFSI 107.9 MD Annapolis, ID, b	
2143 WPAT 93.1 NJ Paterson, ID	
7/4 tr	
0046 KXXI 102.3 AR Van Buren, ID, oldies	170
mx, new to air	

cont.

7/4 Es		7/8 tr	
2030 KQRK 97.1 NV Los Vegas, ID	985	2146 KRPR 89.9 MN Rochester, ID, r	624
2031 KUNV 91.5 NV Los Vegas		2159 KFSR 88.5 MN Rochester, ID, UPI nx	460
7/5 Es		2252 KGRS 107.3 IA Burlington, ID, r	460
1118 KLRZ 94.9 UT Provo, ads		2259 KRNQ 102.5 IA Des Moines, ID	430
1159 KUNR 88.7 NV Reno, ID		2305 WAXX 104.5 WI Eau Claire, wx from	675
2101 WSGR 91.3 MI Port Huron, ID		the Wax news center	
7/6 Es		2319 KGGG 94.9 IA Des Moines, ID, r	430
1105 XHRF 88.1 DF Mexico City, EE		2335 WCGW 97.1 WI Sparta, ID, sports, k	640
1106 XEBS 89.7 DF Mexico City, c, SS		2359 WSIE 88.7 IL Edwardsville, ID, UPI	435
7/7 tr		7/9 tr, cont.	
0912 KZRO 104.3 AR Marshall, "I go for 250 KZRO", k, new to air		0025 WSMI 106.1 IL Litchfield, ID, r	450
7/8 Es		0101 KFUD 99.1 MO Clayton, ID	405
1041 WIGL 106.7 SC Orangeburg, ID		1350 KGFV 97.1 MO Florissant, ID, r	420
1052 WDBO 92.3 FL Orlando		2000 WHHI 91.3 WI Highland, ID	600
1059 WQCS 88.3 FL Ft. Pierce, ID		2001 KCKK 88.3 IA Cedar Rapids	500
tr		2301 WERN 88.7 WI Madison, wx, ID, P	645
1115 WQNZ 95.1 MS Natchez, ads	460	7/10 tr, cont.	
1135 KSBJ 88.1 TX Humble, fund raiser	475	0002 KIMR 89.7 IA Council Bluffs, s/off, 365 (antenna directional toward SW Iowa)	
2001 WHWS 88.3 WI Menomonie, ID	670	0012 KBIA 91.3 MO Columbia, ID	330
2059 KUHF 88.7 TX Houston	460	0023 KMZU 101.1 MO Carrollton, Zoo-101, wx300	
2105 KYSM 103.5 MN Mankato, ID, k	590	0026 KLYF 100.3 IA Des Moines, ID, b	430
2122 KFMW 107.9 IA Waterloo, r, ID	575	1030 KWIT 90.3 IA Sioux City, wx	450
2130 WJTY 88.1 WI Lancaster, ID, g	580	2358 KZMO 94.3 MO California, ID, k	310

All of mid-June went by with no DX, and I was beginning to believe this season was going to turn out to be a dog in the same league as 1979. Such beliefs were quashed, however, when the DX, especially Es went on a fairly well sustained boom, finding most days active since then. Oklahoma City finally made it to 90 degrees this summer (but not before getting beat to 90 by strangely enough Fairbanks, AK) on June 30. That feat was accompanied by some trop here. Of greater interest was the trop centered on July 8-9. That was when a cool high stagnated over most the eastern half of the country. For time of year the air mass was unusual for its strength and origination, the Arctic.

Claiming to be heard most anywhere in Oklahoma now, CKC's KXXY 96.1 has moved its xmitter to the dreaded 1204 ft. level on TV 25's tower and celebrated by holding something like a DX contest. The person contacting the station from the farthest distance won \$96. The promo merely said to contact the station, so probably hearing KXXY wasn't necessary to enter. For one response the station mentioned on air about a man calling from Cape Haderas, NC. He heard KXXY on his pick-up radio on the evening of July 3, which coincided with some very good skip here. KXXY's new power is certainly noticeable here. Its signal strength stays strong under most antenna headings, so just another fortified nuisance. Perhaps I'll find out who the contest winner is next month.

Deserving of a few special thank yous must be the new VUD publishing and editing crew. I can't ever recall the VUD coming out so early, so consistently. Now if only someone would take over the idle Mailbox column.....until next month, 73.

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

JUST IN: July 11, New Mexico has caught double hop from Jamaica while your editor has just heard from Central America for the first time. Hopefully, more details next month. If you're lucky enough to receive double hop don't hesitate to report it to the VUD, so we can get a good idea how extreme this season is getting.

###

MAGIC
102.9
KMGC
FM
STEREO

1353 Regal Row • Dallas, Texas 75247

John Adcock

A DIVISION OF
SONLIFE RADIO
KWJS

2216 S. COOPER
ARLINGTON, TX 76013
(817) 265-3101

KKKS
FM
105.0

COMMUNICATION CENTER BUILDING
P.O. BOX 880
KILLEEN, TEXAS 76541

ANTENNA NEWS

Doug Dornbos
931 Boon Street
Traverse City, MI
49684

August 1983

Dear Fellow DX'ers,

So obviously we are on some kind of pattern here every month; a little moral essay, members input, magazine article listings, some theory maybe, some dry discussion on installation and a little current news. So what is the purpose? The purpose is this: To get us to THINK. The purpose is not to say that this or that is best, period! The purpose is only to start us thinking about what or how & maybe to open up new thought patterns which before would not have opened. I must say that I appreciate the letters I have received (phone calls too) so far and again I encourage you to write with any ideas, facts, questions, or comments you might have.

I also must say that I wish I could make it to the convention this year to meet some of you but time and money do not permit. My loss I am sure.

MEMBERS' INPUT

Thanks to Don Blevins and Armand DiFilippo for letters this month. I hope I was of some help. Also, George Mileon sent me a Carver news release concerning an add-on unit employing circuitry similar to that in the TX11. Named the TX1-11, the unit will retail for \$250. Your local Carver dealer is the man to see on this one. Thanks George.

MAGAZINE ARTICLES * Trumans' second term

New Antenna Triples TV Range	Science Illustrated	Jan. 1948
Simple Dipole TV Antenna	Radio News	Mar. 1948
Reflectors & Directors	" "	Apr. 1948
Portable Mast is Pushed Into Air	Popular Mechanics	Jul. 1948
New Mobile Field Strength Equip. for	TV Radio & TV News	Aug. 1948
Stacked Array	" " "	Oct. 1948
TV Skyline, Video Aerials	New York Times Magazine	Nov. 1948
Single Turn Loop	Radio & TV News	Jan. 1949
TV Antenna Booster	Popular Mechanics	Jan. 1949
Pitfalls of Many TV Installations	Radio & TV News	Feb. 1949
TV Antenna Installation	" " "	Feb. 1949
TV'S Largest Parabolic Antenna	" " "	Mar. 1949
FM Antenna	Consumers Research Bull.	Apr. 1949
TV Master Antennas	Radio & TV News	Apr. 1949
TV Antenna Location/Orientation Indicator	" " "	May 1949
TV Antenna	" " "	Jun. 1949
Build Your Own TV Tower	" " "	Jul. 1949
Evolution of a TV Antenna	" " "	Jul. 1949
High Gain Directional Array for Marginal TV Reception	" " "	Aug. 1949
Mast Head Antenna Switching	" " "	Sep. 1949
Sweep Generator Adjustment of Transmission Lines & Antennas	" " "	Sep. 1949
TV Receiving Antenna	" " "	Sep. 1949
Fringe Area TV Reception	" " "	Oct. 1949
Rhombic Antennas for TV	" " "	Oct. 1949
Self Supporting Towers for TV Antenna Arrays	" " "	Oct. 1949
Special Purpose TV Antennas	Popular Mechanics	Nov. 1949
3 Ways to Rotate TV Antennas	Popular Science	Dec. 1949
Batwing FM Receiving Antenna	Radio & TV News	Mar. 1950
Multiplex TV Antenna Systems for Stores	" " "	Apr. 1950
No Space for an Antenna?	" " "	Apr. 1950
Built In TV Antenna	" " "	May 1950
Development of Fan Type TV Antenna	" " "	May 1950
Multi-TV Receiver Operation from Single Antenna	" " "	May 1950
TV Antennas for Metropolitan, Suburban, & Fringe Areas/Consu-		May 1950
TV Antenna Installations, Radio & TV News /mers Reaserch Bull.		Jun. 1950
How to Subdue Video Ghosts	" " "	Jul. 1950
How to Fish for More TV Stations	Popular Science	Sep. 1950

Antenna Articles 1948-1952 (cont.)

Consistant Fringe Area TV Reception	Radio & TV News	Oct 50
Two Channel TV Yagi Design	" " "	Oct 50
Five Way TV Mast Stretches Tallest Building	Popular Science	Nov 50
MATV System for Apartment Buildings	Popular Mechanics	Nov 50
MATV System	Architectural Record	Dec 50
Survey of TV Antennas	Radio & TV News	Dec 50
TV Antenna Installation With Minimum Roof Attachments, Pop. Mech.		Dec 50
What You Should Know About TV Antennas	Popular Science	Dec 50
Best Way to Mount TV Antennas	" " "	Jan 51
Faulty Installations of TV Antenna Systems	Popular Mechanics	Mar 51
How TV Came to Panther Valley	Radio & TV News-----/	Mar 51
Novel TV Antenna Installation Overcomes Mountain Terrain, "		Apr 51
Lightning vs. TV	Popular Science	May 51
TV Antenna Rotators	Consumers Reports	May 51
Al Smiths Antenna	Newsweek	Jun 51
Multiple TV Installation In Washington	Radio & TV News	Jun 51
Cascade Type Antenna Mounted TV Booster	" " "	Jul 51
100 Mile TV; Tiny Amplifier	Science Digest	Jul 51
Antenna Rotator Solves TV Reception Problems	Popular Mechanics	Aug 51
How to Ground Your TV Antenna	House Beautiful	Aug 51
Fringe Area TV Antenna Easily Serviced	Popular Mechanics	Sep 51
Yagi Antenna	Radio & TV News	Oct 51
No TV In Your City?	" " "	Dec 51
Built in Home TV System	" " "	Jan 52
Phased TV Beam Antenna	" " "	Jan 52
Aluminum Foil Beam	" " "	Feb 52
New TV Beaming Device	Science Newsletter	Apr 14 52
Stacking 4 Z-Matched Yagis	Radio & TV News	Apr 52
TV Antenna Couplers for Multi-Set Operation	" " "	Apr 52
Lightning Proof Your TV Antenna	Popular Science	Jun 52
Kansas TV Fan Gets Both Coasts	" " "	Jul 52
Map Your Fringe Area Signal Level	Radio & TV News	Jul 52
Need a TV Antenna Change?	Science Digest	Jul 52
Problems of Indoor Antenna Reception	Radio & TV News	Jul 52
Homemade TV Antennas	Popular Mechanics	Aug 52
TV Reception Slipping? It May Be Your Antenna	Popular Science	Oct 52
Yagi	Radio & TV News	Oct 52
TV Receiving Antenna Testing Technique	" " "	Sep 52
FM Booster Improvement	" " "	Nov 52
DX TV	" " "	Dec 52

PRODUCT ANALYSIS-MAST PIPE

A mast pipe is a mast pipe. Right? Wrong! There is as broad of range of quality in mast pipe as in any other part of the antenna system. Mast varies in 4 ways: 1) What material it's made from, 2) What kind of finish it has, 3) Its' guage & diameter, and 4) How it fits together with other pieces of mast.

Usually mast is available in aluminum, steel, and steel alloy. At the present time I cannot say that I have ever seen a good aluminum mast. All that I have seen have been very thin walled & not suitable for large antennas. Steel makes a good pipe & is probably the most popular. Channel Master uses a steel alloy in their Duratube citing a 50% strength increase. I have seen some demonstrations of the Duratube's strength and I believe it. A word of caution, well pipe does not a good mast pipe make. It is far too soft and in high winds will bend much easier than mast. For performance vs. weight it just doesn't make it.

Galvanized is seemingly the finish of choice among the steel pipes. It undoubtedly is the best finish around for this application. There are however 2 ways of galvanizing. One is to use galvanized steel cut to size and then rolled into tubes. Zinc is sprayed on the outside seam leaving more than likely the inside seam and the ends with no rustproofing. The second way to galvanize is to hot dip the pipe in zinc after the entire

Mast Pipe (cont.)

manufacturing process has taken place. In this way the entire inside and outside of the pipe is treated. You can usually tell one from the other by the seam, it is much less noticeable on a hot dipped piece. Enameled pipe also holds some popularity. Channel Master, not being able to galvanize their metal alloy Duratube, dip undercoats it and then sprays on a gold colored enamel surface. Many other manufacturers realizing how good the painted pipe looks and how clean it is to handle, not to mention the cost savings over galvanizing, also supply painted mast. A problem with some of these however is that they may not have an undercoating and therefore are prone to rust from the inside out. Painted surfaces also get scratched easily and if no undercoating is present rust will prevail. When buying enameled mast check the inside of the tube for an undercoat.

Mast pipe fits together 2 ways, either one end is expanded so that another piece will slide right in, or one end is notched and the other is shrunk and has a dimple so that they fit together and wont spin (called swaged mast). The swaged mast is by far the stronger of the two due to the fact that when pipe is expanded it becomes thinner vs. when it is made smaller it becomes thicker. Also if the ends are slotted & dimpled, the locking feature assures a slip free joint.

Mast size is the most common way of specifying the product. Typical thickness of metal runs 20ga., 18ga., 16ga., 1/8", 1/4", with diameters running 1 1/4", 1 1/2", 2", and larger. Because the cost difference is so small, I prefer 1 1/2" over 1 1/4" and 16ga. over 18 or 20ga. A price comparison of pipes with various sizes & finishes is given below (all 10 ft. lengths-swaged):

Brand	Model #	Diam.	Finish	Guage	Price
Channel Master	2012	1 1/4"	Duratube	20ga	\$ 8.50
" "	1810	1 1/4"	Galvanized-Dipped	18ga	10.15
" "	1812	1 1/4"	Duratube	18ga	10.65
Radio Shack	15-843	1 1/4"	Enameled	16ga	7.99
Channel Master	1610	1 1/2"	Galvanized-Dipped	16ga	12.00
" "	1612	1 1/2"	Duratube	16ga	12.80
" "	1615	1 1/2"	Galvanized-Dipped	16ga	16.00
" "	1617	1 1/2"	Duratube	16ga	16.40
Tri-Ex	AD-100	2"	Galvanized-Dipped	.120"	33.00
" "	AD-100/TM	2"	" "	.180"	49.00
" "	AD-100H	2"	" "	.250"	113.00

Rohn was not included as they are no longer providing mast pipe to their distributors. Other brands were not included due to overlap of the above products or an incomplete line.

INSTALLATION TECHNIQUES - MAST PIPE

If you have a situation where you have an antenna that you don't want to rotate & one that you do, this might be a solution for you. I have seen this employed with great success by Frankfort, MI antenna installer Mr. Kim House. Use 1 1/2" mast in your tower or tripod to hold the stationary antenna. Using a rotor bracket below the 1 1/2" pipe, put 1 1/4" mast in the rotor and run it through the section of 1 1/2" mast. If you have any joints in the 1 1/4", try to have them inside the 1 1/2" pipe to add strength. I have never seen the following but it too might work. Using an Alliance rotor with the larger pipe both antennas could be independantly rotated. The wife and kids could then watch their favorite SITCOM while you DX'ed to your hearts content on the other antenna. The cats' meow.

CURRENT NEWS

No need to worry! The FCC is still the FCC despite being dubbed the FCA in last months report on Israel. Sorry about that.

WESTERN TV-DX

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

Antenna News

Page **IX**

August 1983

Current News (cont.)

If you own a Winegard DA805, DA815, DA825, DA8150, or BC3820 and wish to remove the FM trap, plans are available for the procedure. Either write to Winegard or myself and ask for them.

Blonder-Tongue has available a new channel elimination filter (model 4416) that looks awesome: 57db of visual AND aural suppression with only 2db loss of adjacent channel. WOW! Of course for approximately \$500. you have to get something. Pico, I am told, makes a similar unit for which I have no specs that runs around half the price.

Is Glen Davis of Georgetown, TX a WTFDA member? If not, would someone who lives near him or within a local phone call range give him a call? He has got a killer FM antenna system comprising of a quad stack of Winegard CH6065's. I know he DX'es & that he has got a nice antenna but that's all I know. No address, sorry.

Dimension Magazine, a magazine for doctors ran an article recently on indoor FM antennas & thought that the Winegard FM4400 was an excellent value. Too bad they didn't test the Dennesen Polaris.

If you are into Winegard products, Winegard publishes a quarterly newsletter aimed at the retailer called the Winegard News. I'm not sure how they feel about sending it to WTFDA members but it's worth a try. Subscription cost is \$2.00 per year. Write to Winegard Company, 3000 Kirkwood, Burlington, IA 52601.

NEXT MONTH

Magazine articles listing from the mid 50's. A look at tower.

August 1983

Deadline: 9- 9-83

An excellent group of reports this month. There are differing opinions about how good the period was for Es. I think, the consensus is that conditions were below normal, although there were some hot spots. Tropo has also been developing, with another super tropo logging by Pizzi in New Mexico. It was a hot month for Es in Okinawa with double hot Es noted from Thailand.

New ___ New Mode ___ Tentative - t Unidentified - unid

David Rogers, Box 1-465, Fort Supply, OK 73841

The new LPTV station in Woodward, Oklahoma is on the air on channel 23. Their signal is only fair here in Ft. Supply (only about 13 miles northwest of Woodward). I called the station on the phone, and they said it must be the terrain, because they had been picked up in Leedey, Oklahoma (much farther away). I think their call letters are K23AD; however, when I've seen them ID, they just show a slide that says "TV 23, Woodward, Okla." I watched their sign/off, and this is the only ID they gave. Their antenna is on top of the Co-Op elevator in Woodward.

Incidentally, UHF is the only TV we have in Ft. Supply (there is no cable TV here). We get our TV from a UHF translator located north of Woodward and on channels 71, 73, and 75. We also get PBS (the Oklahoma Educational TV) on channel 58. This translator is located about 7 miles southwest of Buffalo, Oklahoma.

73 and Good DX, Dave

(Thanks for your first report Dave. Let us know what else you see. fm)

John Ebeling, 9209 Vincent Ave. S., Bloomington, MN 55431

CDT

From cabin at Prosit (Alborn), MN:

June 4, 1983	Es 1100 WBRZ 2 LA	Es 1300 KFDX 3 TX	Es (1930-2243 FM - TX and LA.)	Es (Until 1700. Saw XEW-TV overlaid on picture four times. Reception very good.)
	1200 KETS 2 AR	(Over KDLH, 25 air miles away)		1750 XEPM 2 CH (ID overlaid.)
	WLBT 3 MS	1315 KACB 3 TX	June 27, 1983	1800 KOAI 2 AZ
	1210-1220 unid 4	(F/out, until TX back 1900-2000)	Es (2112 KPIM-92.3, El Paso. No TV noted.)	1900 KWGN 2 CO
	1225 WGBH 2 MA			2200 KDBC 4 TX (FM only active 1300-1700 from FL, LA, and NM)
	1300 KBCI 2 ID		June 28, 1983	
	(Put me in the center of east/west E opening)	June 22, 1983	Es (Excellent FM Es day. Skip up when I awoke at 0954 and stayed until 1410, providing TX and one NC station)	1830 KIWO 2 WY
	1310-1350 unids chs 2-5	Es 1500 WPBT 2 FL		2230 KF5M 5 AR
	1400 KBCI 2 ID	June 24, 1983	June 25, 1983	
	KUTV 2 UT	Es 0110 CFAC 2 AT	Es 1930 KPRC 2 TX	July 3, 1983
	1500 KBCI 2 ID	0130 KRTV 3 MT	(Then much FM Es from TX and LA until 2100.)	(Good tropo. Little Es in early evening from LA & AL, also FM from FL.)
	1520 KREM 2 WA	1200 KRID 2 TX		
	1552 KKLY 4 WA	1900 KREM 2 WA	June 29, 1983	July 5, 1983
	1600 TV f/out	2100 KOAI 2 AZ	Es 1700 WSB 2 GA	(Good FM Es from 1930 to 2112 - SC, NC, and Georgia.)
	(But, FM in from Kamloops, BC for 20 minutes)		(Then FM from FL from 2011-2035)	Es 2210 WLBT 3 MS (Over KDLH with antenna aimed at it.)
June 5, 1983	Es 1145 WMAB 2 MS	June 26, 1983	June 30, 1983	
	(1200 sign/on)	Es (1000-1200 FM - AL, FL, MS, TX, and AR.)	(A bang-up day for TV, poor for FM.)	
	1231 WBAP 5 TX		Es 1600 XEW 2 DF	
	1236 KDFW 4 TX			

I should comment on my antennas. For TV, I use two, selected by a knife switch at the TV set. One points southeast toward Duluth, the other south towards Minneapolis/St. Paul. Both are older, VHF only types and are on the attic floor of the cabin. Usually, KTCA-2, WCCO-4, and KSTP-5 have some sort of signal, so Es must override them. TV set is about 15 years old; a tube type Zenith which I bought for \$25 a few years ago and fixed

(continued from page 27)

CENTRAL FM DX	Ralph Strobel cont'd:	AUGUST 1983
6/26 Es		7/3 Es
1200 K8QY 95.1 SD Deadwood, r\$, wx, o/WFVQ	1010	1955 K8LL 92.9 TX San Angelo, r\$ 1100
6/28 Es		1959 KJKK 95.3 AR Murfreesboro, "K-99" 650
0100 KBAT 93.3 TX Midland, k\$, brief	1140	2022 K1XX 106.1 TX Denton-Dallas, r\$ 880
1117 KTYT 88.1 TX Lubbock	1025	2027 KLAZ 98.5 AR Little Rock, r\$ 565
1125 KLLL 96.3 TX Lubbock, k\$	1025	previous tr, closest Es ever!
1126 KBHM 94.9 NM Roswell, b, no \$	1200	2030 KSUC 88.3 TX Keene, wx 890
1131 KLEY 88.3 NM Albuquerque, g "88-K-Light"	1250	2032 KFAN 101.1 TX Fredricksburg, r\$ 1100
		2041 KHEZ 100.3 TX Dallas, prev. tr 850
1135 KWXL 94.1 NM Albuquerque, rp\$ "94-Rock"	1250	2043 K1TV 88.1 TX Denton, ex-88.5 880
		7/8 Es
1140 KNIT 95.3 NM Portales, k mono	1120	1100 KJAK 92.7 TX Slaton, g 1060
1159 KAFM 92.5 TX Dallas-Fort Worth	850	1105 KBAT 93.3 TX Midland
1212 KOB 93.3 NM Albuquerque, r\$	1250	1115 KEEB 93.9 TX El Paso, b\$ 1360
1230 KF1Q 91.5 NM Albuquerque, g\$	1250	1129 K8LT 94.5 TX Harlingen, k\$ 1270
7/2 Es		7/10 MS
1940 KLBV 93.7 TX Austin, r\$	1040	0322 WEFM 98.9 NY Rochester, "...at WEFM..."

There has been little to do at Ball State this summer, so I've been home to check on skip. The skip I have heard has been very sporadic. A station will fade out after a few minutes, with no ID heard. Will see some of you at the convention soon.

73, Ralph
+++++

John Ebeling (continued) up. It usually runs all day long on channel 2 when I am up here as I keep looking for Es in the summer. A lot of channel 2 Es I never ID or mark down.

For FM, I have a 5 element FM antenna also lying on attic floor. I climb up and move the antenna in the direction of the Es. I am still using the old Heath AJ-15 tuner.

I like the Mexican method of large call letters over the program for a minute or two about every 15 minutes. That sure beats the states, as some of the ID's given by US stations are brief and letters so small that some are hard to read. KTCB-2, Minneapolis, is bad that way. Sometime, I will write them about it on behalf of all TV DX'ers.

Must leave tonight and go back to work - Rats! It's been nice to set my own pace for the past three weeks, some of which was spent at mother-in-law's place in Thunder Bay

(Thanks for the report, John. It seems that a slow FM season is turning you into a real TV DX'er! With regard to your comments about Mexican ID's, I would have to say that there is the possibility of incorrectly ID'ing them. I don't know what the present situation is, but I used to see a lot of XEW-TV ID's on XEPM-TV. I believe this is due to the fact that XEW is not only a Mexico City station, but is nationally networked. It seemed suspicious enough to me that I no longer claim to have seen XEW-TV (double hop from here) even though at one time I believed I had. fm)

Jim Pizzi, P.O. Box 1778, Lovington, NM 88260 (505)-396-3432

MST/MDT

May 1983

28 Es 1905 unid ch 2 Mexico
29 Es 2000 WJXT 4 FL 1300
2002 WDIQT 2 AL
(20 kHz - KENW, PBS)
30 Es 0909 unid ch 2 Mexico
1100 unids ch 2-6 ne
1105 unid ch 2 ne
1159 WCMH 4 OH 1215
1200 WDTN 2 OH 1152
1205 unid ch 2 ne
1425 unid ch 2 ne
1429 WTOMT 4 MI
(Q-101 promo/Peoples Court)
1453 WUNC 4 NC 1395
1454 WFMY 2 NC 1350
1858 CKTV 2 SK 1188
1859 KGFE 2 ND 1058
(Under CKTV)

June 1983

1 Es 0920 unid ch 2 ne ABC
2116 KGAN 2 IA 878
2120 KIMT 3 IA
2 tr 0750 KRIV 26 TX 515
0755 D-FW 21,27,33,39
0758 KNCT 46 TX 368
0800 Austion 18,24,36
0813 KAVU 25 TX 468
3 Es 1728 WBAY 2 WI 1125
1730 WBBM 2 IL 1049
1731 KGAN 2 IA 878
1930 XHZ 5 MX 840
1931 XEWO 2 MX 840
unids ch 3 and 4
1958 unid ch 2 south?
(SS - Canal 3 ID)
2003 unid ch 4 Span.
tr 2029 unid ch 23 ne
(Baseball game)
Es 2233 unid ch 2 e ABC
2247 unid ch 2 ne
4 Es 1219 KSBY 6 CA 1004
(No Es on 2-5)
1240 KTVU 2 CA 1116
2031-2141 unid 2-5 ne

5 Es 1000 WBAY 2 WI 1125
1001 WFRVT 5 WI
1021 unid ch 3 n CBS
1029 CKTV 2 SK 1188
1030 CKSA 2 AB 1400
1031 unid ch 4 north
1035 unid ch 5 n ABC
1045 KGFET 2 ND
1058 unid ch 2 nw
("Pacific Mt TV Net")
6 Es 1718 WCIA 3 IL 959
1721 KGAN 2 IA 878
1824 WTTV 4 IN 1059
1830 WLWT 5 OH 1125
1900 KMOX 4 MO 824
1900 KSDKt 5 MO
7 Es 1113 KSBY 6 CA 1004
1128 KNBC 4 CA 855
1130 KEYT 3 CA 945
KNXT 2 CA 855
1137 XETVt 6 BCN
1332 unid ch 2 Mexico
1900 KPIX 5 CA 1116
1956 KINGt 5 WA NBC
1958 unid ch 6 west
2004 KVIE 6 CA 1071
(Auction)
2209 KSL 5 UT 707
2210 KIVI 6 ID 990
2212 KPVI 6 ID 833
2214 KTVX 4 UT 707
2301 KTVU 2 CA 1116
8 Es 0005 KOBI 5 OR 1224
0007 KCRL 4 NV 1008
0017 KVIE 6 CA 1071
0019 KPIX 5 CA 1116
0106 KGO t 7 CA
(0 kHz - KOSA)
0830 WBRZ 2 LA 743
LS 2258 KTBO 14 OK 380
9 tr 0900 Albuquerque 14
& 23 - snow free 243
Es 0915 unids ch 2-4 e
1030 WMAB 2 MS 828
WLBTt 3 MS
1032 WCBI 4 MS 864

9 Es 1034 WABGt 6 MS
1501 unids 2-6 e & ne
1551 WDIV 4 MI 1260
9 Es 1628 WECT 6 NC 1463
1900 WLUC 6 MI 1235
2100 CKND# 2 MB 1184
2101 unid ch 2,4 Mex.
2129 CBKt1 4 SK 1184
2200 CKTV 2 SK 1188
10 Es 0900 WNGE 2 TN 968
0901 unids chs 2-5 ne
0902 WVVat 6 WV NBC
11 Es 0900 unid ch 2 ne
1456 WBBM 2 IL
1502 WKZO 3 MI
1731 XEWO 2 MX 840
1751 XHAPt 4 MX
1756 XEW 2 MX 960
1759 unid ch 4 Mexico
1800 unid ch 4 south
(Carrier w/clx music)
1818 XHElt 6 MX
1819 XHZ 5 MX 840
1828 unid ch 3 (XEW)
12 tr 0750 OKC 43, 25 380
0752 Tulsa 42, 23 473
0759 KSNF 16 MO 576
0800 K36AB 36 OK 289
(Lawton KETA-13)
0801 K19AA 19 OK 252
(Altus KWET-12)
0814 KHBst 40 AR
0816 K46AI 46 OK 405
(Durant KETA-13)
0819 K50ALt50 OK
(Elk City KOKH-25)
(Listed as KVIT-8)
0820 KLTS 24 LA 539
0821 KORO 28 TX 505
0822 KVEO 23 TX 576
0825 Houston 20,26
0828 unid 48 -KTAB-32
0830 KLTL 18 LA 630
0841 KADN 15 LA 684
0849 WAPTt 16 MS
0850 KERA 13 TX 368
0855 KLAXt 31 LA

Jim Pizzi (continued)

20 tr 0713 K81AR 81 OK 275
(Cheyenne KFDA-10)
0721 KSNF 16 MO 576
0722 KOZK 21 MO 635
0723 KNSM 27 KS 585
KMTc 27 MO 635
0725 K76AN 76 TX 165
(Turkey KFDA-10)
0729 KSHB 41 MO 630
0735 WwMA 17 MI 1170
0737 K18F# 18 OK
(Ponca City? KOKH-25)
0742 KPOM 24 AR 540
0743 KYFC 50 MO 630
0803 WLKYt 32 KY
(20 kHz to KTAB)
0825 WIFRt 23 IL
(0 kHz to KOKI)
0827 K46AI 46 OK 405
(Durant KETA-13)
0849 unid ch 36 ne
(0 kHz to KTVV,
possibly WTVQ)
0913 K50AL 50 OK 279
(Elk City KVIL-8)
0915 K38AK 38 OK 429
(Ponca City KETA-13)
K38AM 38 OK 300
(Strong City KTVY-4)
20 tr 0705 K30AE 30 OK 370
(Alva KETA-13)
0708 K80AU 80 TX 200
(Estelline KFDA-10)
0709 K80AY 80 TX 305
(Booker KFDA-10)

20 tr 1030 KTVH 12 KS
0553 KSNV 27 KS 585
0558 KLDH 49 KS 585
0609 K16AB 16 OK 273
(Guymon)
0616 K40AG 40 OK 300
(Strong City KWTV-9)
0617 K49AQ 49 OK
(Clarendon KVIL-7)
0620 K53BE 53 OK 273
(Guymon LPTV)
(Call slide with name
and address. Audio -
tape of Christ's life
"Christian Community
Television" My first
LPTV.)
0624 K62AD 62 TX 249
(Tehoma KFDA-10)
0626 K58AC 58 TX 249
(Tehoma KAMR-4)
0627 K60AG 60 TX 249
(Tehoma KVIL-7)
0630 K30AE 30 OK 370
(Alva KETA-13)
0801 KSHB 41 MO 630
0822 K38AK 38 OK 429
(Ponca City KETA-13)
0900 K36AB 36 OK 289
(Lawton KETA-13)
0901 KSNF 16 MO 576
0931 unid ch 26 nne
(Firing Line- Not OK)
0942 KIDZ 24 TX
0956 unid 21 nne OETA
0958 K19AA 19 OK 252

Great tropo to the midwest. WwMA-17, a nice surprise. Called KCBJ first - not them, now NBC. Then WZTV - not them either. WwMA program director Vic Stawicki verified at 0735 MDT, "Gunsmoke" promo, then "Channel 17 - the Great Entertainer," then into kids program, "The Great Space Review." - I think that's the name. Anyway, he was quite amazed at the distance (so was I!). Said he'd send a written verie.

Didn't know KLDH-49 in Topeka was on the air. Had CCI on June 20 to K49AQ in Clarendon, Texas; thought it was another translator. KLDH is ABC network. Unid on channel 26 was not Oklahoma ETV - maybe a Kansas translator or Omaha? Channel 21 must be a new translator in Oklahoma. Called OETA - nothing they operate - I'll have to wait and see before I count it.

Lot's of Es this June, too. Spent most of the time on FM, because channels 2-6 were three or more deep. Still managed to ID a few new ones.

I hope there's more to come via Es & tropo. Best of DX, 73's, Jim

(Very nice loggings, once again, Jim. I am still looking for a 1000 mile UHF logging from Fargo. Some points of interest; KLDH-49 is listed in Television Digest as coming on the air on June 20, the day before you saw them, and KCBR-17 in Des Moines also uses the slogan "The Great Entertainer" in all their promotions. fm)

James J. Stiles, CFAo/NAFK, Box SU/LR ADP, FPO Seattle, WA 98770 (Okinawa) JST

Equipment: Sharp 26" PAL/SECAM/NTSC color model C261-SPN, Radio Shack TV-20 outboard audio tuner, Grove Power-Amt wide-band preamp, three element 50 MHz yagi, Grove Scanner Beam.

Here's this month's TV DX report. As you will note, the E skip season has been quite good thus far, with openings nearly ever day.

16 May 1130-1215 China C1 unid. 17 May 1815-2000 China C1, C2, C3 unid.
1700-1800 China C1 unid. 18 May 1700-1730 AFKN Korea A2, Seoul,
17 May 1645-1715 China C1 unid. Math - Sesame Street
1713 s/off, Peking TP 1830-1930 China C1, C2 unid.

Jim Stiles (continued)

Table with columns for date, time, station, and location. Includes entries for May and June 1983, listing stations like KBS Korea, NHK Japan, and various local channels.

The best opening was on June 5 and lasted more than 14 hours. During the opening and on several other days in late May and early June, NHK, the Japanese government network, ran 60 second spots graphically describing E-skip propagation and showing examples of how local reception on the low-band channels (J1-J3, 91-108 MHz) can be interfered with.

I can't recall viewing such a propagation explanation on any stateside stations, but I suppose there are some who do. It seems like a good idea.

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

CDT

Equipment: RCA 1982 XL-100 color, J.C. Penney 5" b&w portable, Winegard CH-7084 with Winegard AC-9880 pre-amplifier at 28' above ground level.

Table listing TV DX spots for May and June 1983, including station call letters, frequencies, and locations like WJXT, WESH, and WFTV.

June has been a busy month for TV DX'ing here with several good E skip sessions throughout the month.

Ron Purdue (continued)

On May 27th, we had a thunderstorm, and lightning damaged the AC-9880 pre-amp. So, on the first, I had the antenna service order an AC-4990 pre-amp, and I still haven't got it yet. (That was three weeks ago, now!) I am getting impatient with the Norman Antenna Service now.

In other TV news, KXLT-47 in Rochester probably will never go on the air. I don't know why. I have checked with the 1983 Broadcasting Yearbook at the library to find out the info about KXLT.

That's it from here. It looks like E-skip will persist at least until mid-August. Until then, 73 and Good DX! Ronald

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

CDT

DX activity during the past month was somewhat below normal. Tropo activity was practically non-existent, and most Es openings didn't amount to much. The best Es day was on the 25th when activity on channel 6 was as good as opening channel 2.

Yesterday, June 26th, the temperature soared to a sizzling 97°, and today it only managed to reach 57° with rain all day. What a contrast! DX today either, unlike yesterday. On days like this, I tend to think about the "good old days" and remember those days when Es lasted 24 hours straight. I hope there are a few of those yet this year, or it's going to seem like a long time until next year's Es season.

Table listing TV DX spots for May 1983, including station call letters, frequencies, and locations like WESH, WJXT, WFTV, and various local channels.

Table listing TV DX spots for June 1983, including station call letters, frequencies, and locations like WPMY, WWAY, WUNC, and various local channels.

Bill Draeb (continued)

Table listing station call letters, frequencies, and locations for Bill Draeb's DX list, including stations like KPRC, KIID, WDIQ, WTVY, WRBL, WEAR, WKRG, and KMID.

Don Ruland, 4448 68th Pl, Kenosha, WI 53142

CLT?

Log Totals: 514

May 1982

Table listing station call letters and frequencies for May 1982, including 24 Es 2200 KWGN and 2230 KTVS.

August 1982

Table listing station call letters and frequencies for August 1982, including 6 tr 2000 WTLW and 2100 W67AK.

June 1982

Table listing station call letters and frequencies for June 1982, including 5 Es 1800 CKTV and 2338 KOTA.

September 1982

Table listing station call letters and frequencies for September 1982, including 8 tr 1900 Cleveland U and 1905 WQLN.

November 1982

Table listing station call letters and frequencies for November 1982, including 30 Es 1830 CKCW and CKLT1.

January 1983

Table listing station call letters and frequencies for January 1983, including 15 gw 2230 WVCY.

February 1983

Table listing station call letters and frequencies for February 1983, including 8 gw 2100 W55AS and 13 tr 2000 WKOI.

March 1983

Table listing station call letters and frequencies for March 1983, including 12 tr 1800 WFSL.

June 1983

Table listing station call letters and frequencies for June 1983, including 26 Es 1230 KOTA and KDUH.

(Good to have your report. If you get any more, send them in! fm)

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

CDT

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

Log Totals: VHF - 100 / UHF - 85

June 1983

Table listing station call letters and frequencies for June 1983, including 1 Es 1808 unid ch 2 ABC and 11 tr 0439 W72## 72 WI.

Table listing station call letters and frequencies for June 1983, including 11 tr 0500 unid ch 47 nne and 18 Es 1505 WLBZt.

Table listing station call letters and frequencies for June 1983, including 24 tr 0745 unid ch 56 e NBC and 29 Es 1450 WDIQ.

Nathaniel Ely (continued)

Table listing station call letters and frequencies for Nathaniel Ely's DX list, including 29 Es 2000 WESH and 30 tr 0637 KHIN.

Another great month of DX means 15 more stations for my log. There were some flat spots, but by the end of the month, Es was hot and heavy. I'm left with quite a few unids as I'm without a translator guide.

I was in error when I wrote that W55AS was on the same tower as WCGV. It is not, although it is close by. Actually, I haven't seen W55AS repeating either WLRE or WCGV since I reported it.

Can anyone answer some questions for me? First, does WKOI-43 run all night? Does KMEG-14 have CBS Nightwatch all night? Any clues to the mystery channel 45? It looked like receiver imaging, but I couldn't find another 3/4 CB test pattern on the dial.

In regards to my problem with CATV interference, since the tower was put up (and away from the street) it really hasn't been a problem. Yes, I still see some of the interference, but there is no such thing as a blank or empty TV channel anymore anyway.

(Nate, I believe I can help clear up some of your mysteries, and I am sure Bill Draeb could give you more up to date information. I believe most of your unid translators are located at Iron Mountain, Michigan. My information shows the following licensed translators up there:

Fred McCormack, 135 Prairiewood Drive, Fargo, ND 58103

CDT

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

June 1983

Table listing station call letters and frequencies for June 1983, including 6 Es 2105 unid ch 2 s ABC and 2339 KVUU.

Table listing station call letters and frequencies for June 1983, including 27 Es 0011 KNAZ and 1 Es 1958 unid ch 5 se NBC.

Table listing station call letters and frequencies for June 1983, including 3 Es (FM stations heard in uncommon 1600 mile range from Florida).

(continued on page 52)

EASTERN TV-DX

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

August 1983
Generally speaking, the Es so far this season has been below normal in more ways than one. There haven't been as many openings; and the openings there were didn't amount to much, i.e., they didn't reach ch.6 most of the time and were weaker and of short duration. These are my own observations and I see that I'm not alone. Unless something sensational happens during the remainder of the season, I guess we'll have to wait till next year. -wd

Bill Townshend; 4500 Conn. Ave. NW, #901, Washington, DC 20008 EDT
June 1983 June 1983 June 1983
18 Tr 2318 WWBT-12 VA 18 Tr 2320 WBOC-16 MD 18 Tr 2350 WCPB-11 MD(s/off @0005)

The last time that I reported WBOC-16 several months ago I thought it was radiation from cable TV which has been installed in my apartment building but it was tropo after all. I can use catv like a hole in the head. Last week end was the first reception of WBOC since my last report. WWBT was carrying dx reports by a YL, while WCPB was airing a rerun of Carl Sagen's Cosmos series. My pad is the pits as far as this kind of dxing is concerned due to its proximity to several TV/FM masts which presents an image jungle problem. Now the tropo cx of last week have quieted down. With warmer wx coming this weekend, the tropo cx should pick up again. 73's. Equipment used: Sylvania.

Harry J. Hayes; 9 Henry St., Wilkes-Barre, PA 18702 EDT?
It is a very disappointing season so far. As of 6/27 it looks as if things are starting to get on their way with the NE and Dakotas area opening up on skip for the first time this year. The average length of an opening this summer has been about 30 minutes with a MUF of about channel 3.

June 1983	June 1983	June 1983
2 Es 2200 WBRZ-2 LA	18 Es 1222 WESH-2 FL	27 Es 1710 KTIH-4 IA
3 Es 1815 KMOX-4 MO	21 Es 2045 KQTV-2 MO	1715 KIMT-3 IA
1820 KJRH-2 OK	2057 KSNK-2 KS	1730 WCCG-4 MN
1840 KOTV-6 OK	" "	Barron by Jones
1845 KTVY-4 OK	1830 Newfoundland	KDLG-3 SD
1934 KARK-4 AR	2100 intense; chs.2-4	Bugs Bunny
5 Es 1750 WEDU-3 FL	PTA unknown; out 2135.	1756 KXJL-4 ND
(bidding)	27 Es 1640 chs.2-4; FL.	Partridge Fam.
1800 WESH-2 FL	1648 KQTV-2 MO	1759 KGFB-2 ND
1944 KRAL-6 LA	Rockford Files	1800 KIMT-3 IA
8 Es 1830 KFDX-3 TX	1700 KMTV-3 NE	1823 WESB-2 FL
14 Es 1930 WPBT-2 FL	Charlies Angels	

Equipment: RCA TV; 2-6 Winegard yagi in attic, CM vhf amp.

Rich Turcsany; 37 Windsor Place, Fairfield, CT 06430 EDT
May 1983 May 1983 June 1983
24 Es 2030 WEAR-3 FL 27 Es 1300 KGAN-2 IA 14 Tr 2250 WRFB-5 MD
2100 WRFL-3 GA KIMT-3 IA WNUV-4 MD
25 Tr 2255 Unided-59 muf 10+ FM 15 Tr 0830 WLYH-5 PA
(see comments) WAPB-2 MD
26 Es 1730 WESH-2 FL WLVT-9 PA
WEDU-3 FL 4 Es 1230 KTCA-2 MN WPMT-3 PA
1800 WEAR-3 FL KDLH-3 MN (was SBA)
WRFL-3 GA 1330 WJMN-3 MI WCCB-9 PA
WTVY-4 AL "now ABC" WQCR-9 DC
1829 WPTV-5 FL 5 Es 1825 FL V's WTVE-1 PA
WCLX-6 FL 6 Es 1830 Miami, P.Beach WMPB-7 MD
27 Es 1030 WRCB-3 TN V's. 0900 WFMZ-9 PA

So far, Es has not been as spectacular as it usually is for this time of year, but tropo has been much better. As a result, I was finally able to log WCQR-50 here in Fairfield. Steve Sprachman's mysterious "59" was seen here on 5/25 with weak signal (color bar TP w/white 59 in middle), but this was definitely not WTUV-59 New Haven, as they are planning to debut sometime in the fall. It is also not WGGF-59 Lebanon, PA, as they haven't started construction yet. This was 10 khz offset to W59AA West Haven(+10 khz), but it's not LPTV either, as none have been authorized for ch.59 here on the East Coast. This has

Eastern TV-DX Rich Turcsany; Continued--- August 1983
got to be a pirate, probably broadcasting from the New York area. I've just completed my sophomore year at Emerson College, and while I was in Boston, I did some research on early television stations (VHF and UHF) from the 30's through the early 50's. I've compiled stations lists, as well as network affiliates (many early stations were affiliated with two or three networks). If anyone would like me to print this info in a VUD special column, let me know. (Print that info in a special column-wd.) I've also collected some old ads from the 1953 New England edition of TV-Guide, including those of WWOR-14 Worcester, MA (now defunct) and WWLP-22 Springfield, MA (then operating on ch.61) ---if you'd like to see these, also, let me know. (I would like to see these-wd). Station news: WBCT-43 Bridgeport will be on the air by December, and WLIG-55 Riverhead will be on by 1/1/84. In Boston, WQTV-68 will soon air conventional programming at night, including reruns of "Barnaby Jones". That's all for now. 73's.

Frank Wheeler; 6589 Wattsburg Rd., Erie, PA 16509 EDT
February 1983 May 1983 June 1983
13 Tr 0808 WANE-15 IN 261 27 Es 1128 KQTV-2 MO 779 5 Es 1300 KCKT-2 KS 1015
14 Tr 1200 WKBD-50 MI 154 1135 KYTV-3 MO 774 (now KSNK-wd)
1230 WTVS-56 MI " 1200 KMTV-3 NE 815 2300 KPRC-2 TX 1210
6 Es 1400 WPBT-2 FL 1098
8 Es 1830 KETS-2 AR 929
11 Es 1130 WDIQ-2 AL 815 3 Es 1500 KPRC-2 TX 1210
26 Es 1959 WBRZ-2 LA 1159 1530 WDIQ-2 AL 815 1900 KBTX-3 TX 1199
2030 WWL-4 LA 1005 4 Es 1230 KNOP-2 NE 1066 2100 KTBS-3 LA 1005
27 Es 1100 WEDU-3 FL 998 1330 KTWO-2 WY 1322 11 Tr 0933 CHLFT-63 ON 118
Toronto

Equipment: Sylvania 24" color TV; 1977. Archer WU160 ant. Servo Rotor.

Not much of a report but not much received either, not as good as last year but about the same as 1981. Wouldn't you know, I held ch.2-4 for 1 1/2 hrs. and when it was I.D. time they faded out but came in 90% clear in between, of course we all experience this. I may get to part of the convention, but not all, as our church camp is during that time. Every time the convention is on, so is our camp. If it was just a week earlier I could attend it all but Sun. A.M. Of course they can't change it for me. Hi! 73's.

Leslie Price; 219 S. Kerr Ave., Wilmington, NC 28403 EDT
Here are some loggings I made today (May 8th). All tropo.
0645 Tr WOR-9 NY 0750 WFMY-2 NC 0750 WLFL-22 NC
0730 Tr WKFT-40 NC WPTF-28 NC 0755 WCCB-18 NC
0745 Tr WGGT-48 NC WPDE-15 SC 0800 WUNK-25 NC
WGHP-8 NC

Robert Goodman; 2030 Hering Ave., Bronx, NY 10461 EDT
May 1983 June 1983 June 1983
21 Es 2000 WEDU-3 FL 1050 3 Es 1900 WLET-3 MS 1100 8 Es 2035 to 2130
27 Es 1200 KIMT-3 IA 900 4 Es 1200 KIMT-3 IA 900 KOET-3 OK 1200
Mason City 1230 KDLH-3 MN 1000 Eufaula

If these conditions keep up, next report will be on a post card.

Paul Mount; 471 Emerson Ave., Teaneck, NJ 07666 EDT
June 1983 June 1983 June 1983
3 1900 Es KOTV-6 OK t 27 Es 2045 unided-3 27 Es 2345 WEAR-3 FL t
(tent. I.D. on 87.75 2140 KATC-3 LA 30 Tr 2300 WAVY-10 VA
mcs FM). Lafayette Norfolk-Portsmouth-
Newportnews.
26 Es 2159 Unided-3 2200 WEDU-3 FL WAVY dominated mo-
" -6 tly in color for over 1 1/2 hrs.
(87.75 mcs FM)

R. Shaftan in NYC got KATC I.D. 2204 during Chrysler Plymouth spot in ABC Baseball Game. So I called them instead of closer WEAR to ask about a local spot I heard and audio taped at 2140. The newsman answering was able to recognize the spot and elaborate on the situation reconstruction it mentioned. By 2345 just audio was there, mention of "Gulf Coast 3 News". I'll call WEAR to ask if the name I heard is their employee. While KATC faded from lines to good color picture for 2 1/2 hours, WEDU was solid for 15 minutes around 2200. Too bad I ran out of film at I.D. slide time. A picture from Cuba last month came out nicely. Who uses "I-Team" Eyewitness News 3 slogan? Probably WEAR

Eastern TV-DX

Eastern TV-DX

Paul Mount; continued---

August 1983

or KATC - it was at 2104 that night. A question: Do you count the station if only audio is heard and it's a "has to be them" situation. (Like Pensacola temperature on 3)? (When counting station totals, follow the guidelines which have appeared in past VUD's. I know from my own experience that I've run accross plenty of "it has to be them" stations which I later discovered weren't what I thought they were.-wd.) Mid June was boring; I'll probably miss the good stuff while on vacation (Ohio) in July. Dunkirk is a maybe. 73's.

Robert Grant; 5775 Bishop, Detroit, MI 48224 EDT

Table with columns for station call letters, frequency, and location. Includes entries for WESH-2, WPBT-2, WEDU-3, etc.

The DX of June 25th had propagation characteristics I had never seen before. Signals were medium in strength, with about 5-10 stations rapidly changing on each channel. It didn't look like Es or Ae. More like the descriptions of TE that I read about. But any fool can tell that I am far too north for that. This opening could send a propagation expert to a mental institution!

WTVS is back on the air after being off for a few days in mid June. WTVS was making preparations to double it's power. (From 6/13 to 6/23 they were soldering in the new battery pack which holds 4 "D" cells instead of just 2, hi). As expected there was no appreciable improvement in their signal. What they need is a lower channel or a taller tower. I really wish Detroit had a PBS on a VHF or low UHF channel transmitting closer into the city, not a station out in the boonocks on some cockamamie microwave channel.

Fred Nordquist; 7945 Buxford Road, Clay, NY 13041 EDT
Equipment: Panasonic 1983 CT-11108 receiver; Winegard KU-420 4 bay UHF bowtie w/screen ant. + rotor at 35' a.g.; built-in VHF ant.; Winegard AC-4990 UHF preamp; and RG-8/U coax transmission line. Above UHF system installed 6/10/83. (All tropo-loggings are new and all Es loggings aren't new.-wd)

Table with columns for date, station call letters, frequency, and location. Includes entries for CICO-18, W64AG, WCFE-57, etc.

New UHF system is working fine--with very little overloading/image problems. Am adjusting to characteristic fading at the 150+ mi. range and determining where Gw ends and Tr starts. 73's.

Table with columns for date, station call letters, frequency, and location. Includes entries for KYTV-3, KOTV-6, KSDK-5, etc.

Large table with columns for date, station call letters, frequency, and location. Includes entries for KJAC-4, WPBT-2, WEDU-3, etc.

This Es season is doing very poorly. The only reason for so many TV I.D.s is that very little Es hit FM, so DXed TV. I certainly hope July is much better than this month. (Amen.-wd)

George Rogers; 320 Lafayette Road, Chickamauga, GA 30707 EDT

Table with columns for date, station call letters, frequency, and location. Includes entries for XHAR-5, KRIS-6, KGFT-4, etc.

Eastern TV-DX

Rogers; continued---

August 1983

Table with columns for station call letters, frequency, and location. Includes entries for June 1983 and Rogers; continued--.

Table with columns for station call letters, frequency, and location. Includes entries for June 1983 and Rogers; continued--.

Eastern TV-DX

Rogers; continued---

August 1983

Table with columns for station call letters, frequency, and location. Includes entries for June 1983 and Rogers; continued--.

The top ten Es stations as of 6/27/83 (all ch.2):

Table listing top ten Es stations with call letters and times.

This past month saw some good Es openings from out west. On June 4th I picked up KTVN-2 which had its local evening newscast on at the time. Three days later at around 1028 local time I got KTVU-2 and they had Giants Baseball on there. On June 16th I barely got over local WRCB, KEYT. They had the ABC Evening News on a 3 hour delay. On the evening of June 25th I got my second hi-band Es this season. At 2025 I picked up KPTS. They had a program on restaurants on at the time. At 2050 I picked up another PBS station on ch.8. It was KTSC. They had a science film on. Then at 2152 I got in KMGH-7 which had its CBS programming on a one hour delay. Locally, WRIP-61 is now WDSI with new programming such as "Rawhide", "Eight is Enough", and "Charles Angels". I had change my mileage figures as you said I been using a road atlas for mileage figures since joining WFFDA and would like to know which is the best map for figuring mileage in TV-DX. (The one your using now seems pretty accurate-wd) The way the TV-DX and Es had been going down here were in for a good second half of the 1983 Es season.73's.

Bob Seybold; Bennett Road, Dunkirk, NY

6/18 - Troops to east in A.M. - WVTA-41 VT, WCDC-19 MA plus good U's from Watertown, Utica, Syracuse, Kingston, Elmira, Binghamton and usual Michigan U's.

6/19 - A.M. - Super troops to west - all Chicago U's including 60 & 66; Milwaukee 18; WGRF-39, all Michigan U's 14,17,19,20,23,25,28,31,35,41,47,50,56,62,67, also South Bend U's, Ft. Wayne, Lima, Toledo U's, WGGN-52, WBGU-57 & 27(xltr), Canton-67 and others.

6/20 - A.M.- Chicago U's 26,38,32,44; WGGN-52, WBGU-57, CELFT-34,55; new Ottawa 33, also Ottawa 40, all S.Bend & Ft. Wayne U's super; evening, super opening after 2100 to east; Watertown-16, Norwood-18; WCDC-19, Albany-23, WUTR-20, Syracuse-24, Utica-33, all Scranton-Wilkes Barre, Binghamton, Elmira U's super. WSKG xltrs on 30,60,58,55; WXXI-21 xltrs on 65,62,66,67,64; WVIA xltrs on 63, 64; also WNDU-16, Michigan and N. Ohio U's good.

6/21 - A.M. - Green Bay 26,38; Ottawa 33,40, Hull-30; CELFT-34,55,15,32,44; Watertown, Utica, Binghamton, U's good; Chicago 38,44; all S.Bend excellent; Ft. Wayne good, WBGU-57 & 27(xltr); Grand Rapids 17,35 - Michigan 19,23,25,28, 31,41,47,67 very good; WNEO-45, WGGN-52, also Rochester, Utica, Syracuse, Elmira, Scranton, Binghamton, Watertown, also Plattsburg-57; xltrs on 60,64,65, 66,67.

6/22-A.M.-Ottawa-33, CELFT-34,55; WBGU-57, WEXI-25; Ft. Wayne U's; Pittsburgh

Eastern TV-DX

Seybold; continued---

August 1983

U's good, Dayton-22, WTJC-26, WUHQ-41, WFUM-28, WKAR-23; evening, Toledo super; WGGN-52, WVIZ-25, xltrs good.

6/23-evening super to south. WTAP-15, WHIZ-18, Lexington 18,36,46; WKMR-38, Dayton-22, WTJC-26, Dayton-16, WOSU-34, WCET-48, WPEO-42, WOUB-20, WOUC-44, also Ohio 14 & 59(xltr), 45,49, WGGN-52, Huntington23 and 33; Wheeling 41 (WVU xltr); Indianapolis 40; WNEO xltr on 58; Canton 17,67; WKPT-19, WBGU-57, Hazard 35,57; Ottawa 33; CHLFT-34,55.

6/24 - A.M.- Chicago 20,26,38; all Ft. Wayne; South Bend-28, Peoria-31, all Michigan U's 14-67; WBGU-57; Indianapolis-40, Milwaukee-18,36; Dayton-22, WTJC-26; evening, WOSU-34, WGGN-52 and others.

6/26 - Columbus, Indianapolis, Utica, Dayton U's.

6/27 - Same as 6/26 + Es N.Dakota, Duluth-3, & others.

6/28 - Es Kansas, Nebraska and others. Tr, Detroit U's real good.

6/29 - Tr A.M. - WVTV-18, WWMA-17, WUHQ-41, Saulte Ste. Marie-20; Michigan 19,23,25,28,35,31,47 excellent; evening - Pittsburgh, Wheeling U's, southern Ohio Es on & off most of the day into the evening.

6/30 - A.M.- Columbus, Dayton U's, WTJC-26; some Es.

Late May and early June did bring some Es mostly from Florida and Gulf Coast - some good Texas skip - couple of good openings but most only fair openings.

C.C.I. [UNIDENTIFIED DX]

Robert Grant, KD8EN
5775 Bishop
Detroit, MI 48224.
August, 1983.

TV UNIDS:
Jim Pizzi, P.O. Box 1778, Lovington, NM. 88260.
1983: Thu 28 Apr Tr ch 31 0801 MDT-- "Jack Lalane" (PTA:LA.)
Thu 5 May Es ch 4 2118 MDT-- ad "Williams Pontiac-Cadillac"
Fri 20 May Es ch 2 1735 MDT-- "Remington Steele" (normally Tues.-NBC) (PTA: NEast)
Mon 23 May Es ch 2 2113 MDT-- Marty Hartman doing wx cast. (WDTN in also, PTA:IN,MI.) (not WJBK. -RG)
Tue 24 May Es ch 2 2200 MDT-- "Ironside" (PTA: WA,MT,CO.) (Jim, are you sure about the PTA of that one? WJBK checks out and I had an opening to KENW-3 earlier that evening. and WJBK had some severe CCI around that time. could be WJBK. -RG)
Mon 30 May Es ch 2 1105 MDT-- "Quincy" (PTA: IL,IN,OH.)
" " " " ch 2 1205 MDT-- "Flintstones" (PTA: ".)
" " " " ch 4 1429 MDT-- "Q-107" FM promo. (WTOM?) (Doesn't sound familiar. -RG)
" " " " ch 4 1430 MDT-- "Peoples Court" (PTA Same.)
Fri 3 Jun Es ch 2 1958 MDT-- CH 3 Net ID. (PTA: South.) (I've heard of 2,4,5,8 & 13 (Mexico.) 2,5 & 6 (Cuba) nets but never a ch 3 net. -RG)
Fri 3 Jun Es ch 2 2247 MDT-- Kirk Douglas movie. (PTA: NEast.)
Sat 4 Jun Es ch 4 2031 MDT-- ABC., Mention Duquesne, mx break: store roof collapse in Squirrel Hill. (PTA: PA.)
" " " " ch 2 2041 MDT-- "Lawrence Welk" (PTA:NY,OH,PA,MD.)
" " " " ch 3 2124 MDT-- Barry Katz on Newswatch 3 (PTA: NEast.)
Sun 5 Jun Es ch 2 1058 MDT-- "Pacific Mountain TV Network" (PTA: WA,BC,AB.) (Sounds like something the Canadians would invent. My best wild guess says it might be CHEC but our Canadian members should have the right answer. -RG.)
" " " " ch 2 1101 MDT-- "Wild Kingdom" (PTA: WA,OR.)
(Jim, I am licensed for CB but have only a 23ch AM rig, and no microphone. -RG.)

Robert Goodman, 2030 Hering Ave., Bronx, NY 10461.
1983: Mon 27 Jun Es ch 3 2000 EDT-- "Barney Miller"
" " " " ch 3 2302 EDT-- "Jackie Gleason Show" (PTA: SE'n U.S., WLBT,WSAV ruled out.) (note local nx time. WEDU perhaps?? -RG)

Bill Draeb, Ellis St. R.R.#2, Kewaunee, WI 54216.
1983 Mon 30 May Es ch 3 1841 GDT-- "Real People" and ad for "Bob Salter Chevrolet" (PTA:S.)
" " " " ch 3 1900 GDT-- "3- Clearly Yours" ID and "That's Incredible" (Almost certainly WEAR. I don't think anybody else is using that slogan. WRBL is CBS and would not have "That's Incredible". -RG)

Robert Grant, 5775 Bishop, Detroit, MI 48224. editor.
1983: Fri 3 Jun Es ch 3 1700 EDT-- "CHIPS" and special report at 1705 (see drawing, light lettering on dark background.) WEAR came in at 1708 ruling out that station and that's PTA. (S.)

FM UNIDS:
Jim Pizzi, P.O. Box 1778, Lovington, NM 88260.
1983: Fri 6 May Es 92.1 1432 MDT-- b format, mentioned Dalton, GA. (PTA: AL,SC,GA.)
Fri 20 May Tr 98.9 0914 MDT-- Calls KZBS. (PTA: OK.)
Thu 26 May Es 91.9 1003 MDT-- "Radio Cadena" in SS. (PTA: MX? South.) (the PTA bugs me again. I know KDNA operates in many foreign and native american languages and uses the "Radio Cadena" non-ID. But that's in Washington state. -RG)

TV IDs:
Nathaniel Ely reaffirmed my logging of CFAC on 7/16/82 by recognizing the logo drawn in the October VUD. (TNX. -RG)

(continued from page 45)

Western TV DX

August 1983

Fred McCormack (continued)

Table with columns for time, call letters, and location. Includes entries like 9 tr 0810 WIFR 23 IL 490, 10 tr 0730 KG2XCBT 45 MN 95, 8 tr 0830 KQCD 7 ND 290, etc.

June had perhaps the worst Es conditions of any June in memory. Only at the end of the month did conditions approach what I had been expecting.

July has seen an improvement in the daily tropo scatter distances to in excess of 350 miles with KCBR-17, Des Moines being the most common in that distance range.

Another Low Power TV station (number 5) was logged this time. It is located in New Ulm, Minnesota and rebroadcasts SPN on channel 22. I am told they have local newscasts at 1830 and 2230 local time. I did not see any local ID's during the time I watched. I am afraid it will someday be difficult to positively ID low power TV stations with many carrying the same programs and not ID'ing. As I read the rules, it would seem to me they are required to identify, but I must be wrong. I have seen one legal ID on K30AF at Alexandria, Minnesota. Incidentally, this transmitter which normally runs character generated text does run movies at some times. So, if you see an old movie on channel 30, it just might be them.

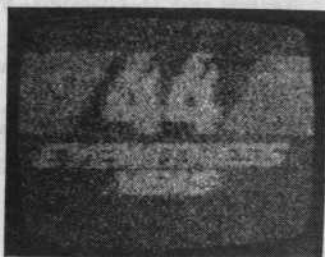
I hope the tropo holds up and provides some good loggings for the next report.

CONTINUED ON PAGE 58

PHOTO-NEWS

Mike Reid
109 Arjay Cres.
North York, Ont. M2L 1G6
CANADA

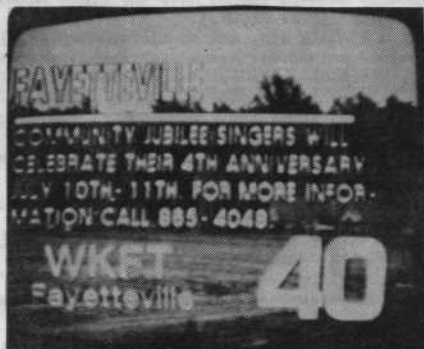
This month we take a look at DX from Jim Pizzi and Steve West, and the DX set-up of Dave Nieman.



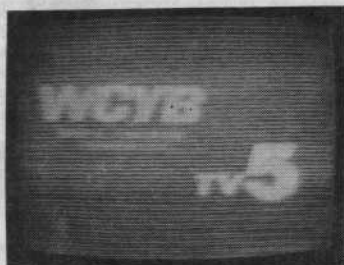
Both of these are from Jim Pizzi.



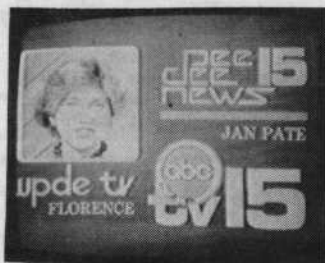
KGLD-11 Garden City, KS
356 mi. Tr July 6/82



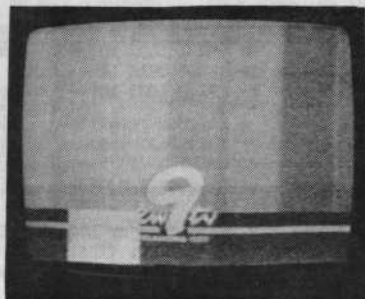
WKFT-40 Fayetteville, NC
380 mi. Tr July 6/82 0830 EDT
(West)



WCYB-5 Bristol, VA
1224 mi. Es July 18/82 (Pizzi)



WPEB-15 Florence, SC
460 mi. Tr (West)



KWTW-9 Oklahoma City, OK
380 mi. Tr (Pizzi)

PHOTO NEWS cont'd

And now, Dave Nieman's DX set-up.

Photo (1) shows us Dave's shack. From bottom to top, we have on the left a Carver model TX-11 FM tuner running into a Heathkit AA-1214 Stereo amplifier. Above that is a Sanyo cassette deck. On the right is the Pioneer model TX-9100 tuner with a NAD 3020 amplifier on top. Above that is a Sankyo cassette deck.

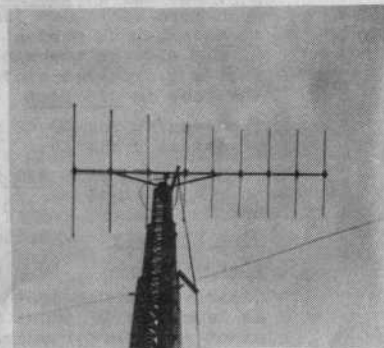
Photo (2) shows a Channel Master 4408 stereo Probe 9 mounted on a telescoping tower with a height range from 24 to 71 feet. It is kept at 42 feet most of the time.

Photo (3) we see from top to bottom, a modified (with a two bay bowtie as the feed) 5 foot Finco dish with a Channel Master model 0071C preamp and a CM model 3617-B VHF antenna on the bottom.

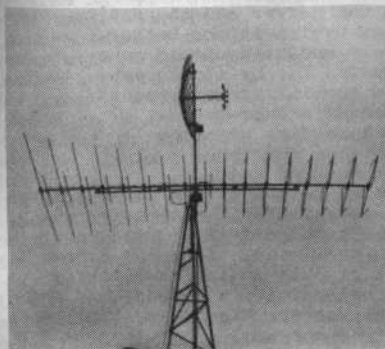
Photo (4) is a look at both TV and FM antenna set-ups.



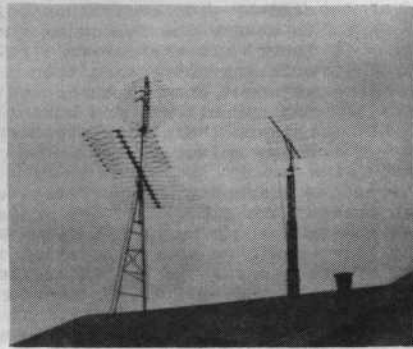
(1)



(2)



(3)



(4)

73's
Mike

FEEDBACK

MORE COMMENTS ON
CARVER'S TX-11 TUNER
--AND OTHER SUPER
UNITS NOW AVAILABLE

There's no doubt about it now; 1983 is proving to be a banner year for FM tuner developments. It all may have started in 1982, when the Carver TX-11 was displayed at the industry trade shows. Several FM DX enthusiasts got word of what was being claimed for Carver's new unit, and found it rather hard to believe. As soon as the TX-11 became available, this DXer decided to try one out, and was impressed (see my review, June '83 VUD).

However, Carver's super tuner was just the beginning of a series of very DX-worthy models. Some of them are just now becoming available, and each new unit seems to have its own speciality. Once again, it becomes what may be considered a "battle of the specs." Which spec is most important? It seems to depend on the individual DXer; but in January's VUD, I wrote a small piece focusing on selectivity in the FM DXer's receiver (or tuner). In the article, I pointed out that selectivity, not sensitivity, is now more important to the FM DX enthusiast. After my June review of the TX-11, I received DXers' comments on the TX-11 and other new tuners. Most interesting was this from Nick Lombardi:

As you probably know by now (March Audio, May High Fidelity, and May Stereo Review), the new NAD 4150 is actually much more sensitive (in mono) than the Carver TX-11. Audio measured a mono usable sensitivity (30 dB THD+N) of 6.8 dBf for the NAD and 11.5 dBf for the Carver. That's a difference of 4.7 dB, or the equivalent of the loss in 315 feet (!) of RG 11/U type coaxial cable.

The results for 50 dB mono quieting sensitivity were almost as dramatic:

	<u>NAD 4150</u>	<u>Carver TX-11</u>	<u>Difference</u>
<u>Audio</u>	12.0 dBf	15.0 dBf	3.0 dB
<u>High Fidelity</u>	9.75 dBf	12.0 dBf	2.25 dB
<u>Stereo Review</u>	10.0 dBf	13.5 dBf	3.5 dB

Clearly, the Carver TX-11 requires significantly greater levels of RF input than does the NAD 4150 for equivalent mono performance. While there is certainly more to tuner performance than raw sensitivity, that item is nevertheless of crucial importance to the DXer. It would be interesting, then, for someone to conduct a side-by-side comparison between the Carver and the NAD, to answer the following question: which is the better tuner? Is the Carver's relatively undistinguished mono quieting curve more than compensated for by its superb adjacent channel selectivity and special stereo processing circuitry? And how will Pioneer's soon-to-be-released "digital detector" model compare with the above units?

Interesting comments, Nick. I too would like to see a true "A-B" comparison between the Carver and NAD units. However, I'd like to point out that the same audio magazines found the NAD's selectivity curves to be only fair, again raising a question in a DXer's mind. It's the oldest kind of problem for the specification-hunter: outstanding sensitivity with mediocre selectivity, or outstanding selectivity with what may only be called "average" sensitivity. It may be, as one DXer said, that you "can't have your cake and eat it as well," so the choice between the NAD and the Carver, if you want to consider them both in the same "league" (some do not, citing cheaper circuit practices and component quality on the NAD), becomes one of high sensitivity versus high selectivity. One thing also should be pointed out, as Bob Carver did in a letter published on page 50 of the June edition of Audio; the two tuners have vastly different design objectives. In addition to being primarily intended to process weak stereo FM signals, the TX-11 does also offer better DX-related

FEEDBACK

August 1983

specifications, AM rejection and capture ratio. The two are related, and very important to the FM DXer. Specifically, capture ratio is the spec which tells you how well the tuner can discriminate between different signals on the same channel. The best FM tuners will exhibit capture ratios of around 1.0 dB or less. The audio magazine reviews all found the Carver TX-11 to have a capture ratio of approximately 1 dB, while their independent lab tests measured the NAD 4150's capture ratio to be significantly higher--as much as 1.5 dB (Audio, March 1983). The NAD 4150 is admittedly a more sensitive tuner, but what use would the poorer capture ratio performance be in a situation such as an E-skip opening with many class A stations coming in on the same frequency? Personally, I have not been able to detect differences in sensitivity between FM tuners as easily as I have been able to spot a tuner with average or mediocre capture ratio performance. Also, it's my opinion that modern FM tuner sensitivity is so close to theoretical optimum performance that the differences between the Carver and the NAD are not as noticeable as one might assume. And while I have never personally tried to compare a NAD 4150 next to a Carver TX-11, I don't believe you can make a valid analogy with the example of equivalent road-in loss. The example given using 315 feet of RG 11/U simply does not accurately show how the tuners would differ, because of differences in such things as input stage noise figures, frequency response, and so forth.

However, much remains to be said about the high performance of the NAD tuner, especially if you are one of the fortunate few who live far enough away from local and semi-local FM stations. If the steeper selectivity skirts of the Carver are not important to you, the NAD is much more of a value for the money, listing at about \$340, as compared with the Carver at \$550. The NAD tuner is definitely another digitally-synthesized tuner that is good enough to satisfy the demands of FM DXers. ANTENNA NEWS editor Doug Dornbos makes these comments: "...right now, I would say that in the medium price tuners, the outstanding favorites would be the NAD and the Carver, and maybe the Crown...in higher price stuff, the McIntosh, ReVox, and Sequerra. Anyway, the Carver is an excellent product."

How does something like a Carver TX-11 or NAD 4150 compare to a proven "DX machine" like the McIntosh MR-78? As of this writing, in mid-July, Joe Fela, Dave Nieman, and myself are trying to arrange a comparison demonstration between a TX-11 and an MR-78 at the upcoming WTFDA convention. We hope to publish the results in a future issue. In the meantime, we do know that the TX-11 is clearly not as flexible as an MR-78 as far as certain control options are concerned, and they are two completely different kinds of circuit approaches; but the Carver is a true breakthrough, and up until it became available, it was impossible to find anything that performed like it for less than \$1,000.

Rumors now abound that McIntosh will soon introduce their own tuner designed to match Carver's objective in building the TX-11--a tuner that performs as well in stereo as it does in mono. However, it should be noted that their MR-80, a digital unit, unlike the MR-78, turned out to be a disappointment to DXers. In the meantime, new tuners are starting to appear with features not formerly found in the medium price ranges. Pioneer's F-90, with radically different circuit approaches, is said to be extremely sensitive, and features a mono signal-to-noise ratio which is claimed to be as high as 93 dB. Pioneer has not lived up to some of their own "hype" in the past, so we are naturally quite a bit skeptical. But they are claiming very high selectivity performance, so we would very much like to hear from anyone who has had the opportunity to try one out. The first comprehensive test results should prove most interesting to FM DX enthusiasts. It remains to be seen if they will all turn out to be as positive as the reviews of the Carver and the NAD that started to appear earlier this year.

Finally, there is a bit of potential confusion about the TX-11 that we should make you aware of. According to Tim Riester, there is another unit on the market that is referred to as the TX-11; but it has nothing to do with Carver. It seems that Onkyo is marketing a receiver that they call the TX-11. It's probably a coincidence, but beware of some audio dealers who may not decide to point this out to you!

-Bill Thompson

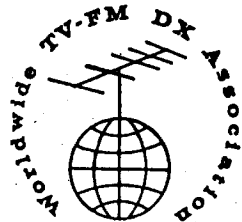
CONTINUED FROM PAGE 53

DRAWING 1



At least somebody is getting good Es.
73 & gud DX to all. de KDBEN.

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STATION BREAK

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SALE - Panasonic PV1400 VCR (excellent condition - logic controls, timer, etc.). Best offer. P. Sawatzky, 304-195 Natchez Road, Kitchener, Ontario, Canada N2B 1W2 (519-824-4120 Ext. 3027 during business hrs.)

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PNBCDC

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DATE: August 5, '83

TIME: 12 NOON START, MEETING @ 4-5 PM, then informal to whenever

PLACE: 9705 Mary NW (206) 784-5145
Seattle, WA 98117

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RSVP if you plan to come at the number above. --PHIL BYTHEWAY