## From The Staff:

### WTFDA Headquarters, P.O. Box 97, Calumet City, IL 60409

SUPER DX CONTINUES... The 1980 DX season has turned out to be one of the best ever for many Midwestern and Southern VHF/UHF DX enthusiasts in North America. FM DXers have done particularly well, as you can see by the size of this month's FM DX reports. It's interesting to note that while the best skip came very late into the Es season. what did take place was astounding. Many TV DXers in the central regions were in on the July 17th opening, which featured widespread Es on channel 7. Needless to say, FM DXers did quite well that evening. Tropo conditions have been quite outstanding in many places -- many now call this their best year ever for tropo. As this is being written, tropo is super in most of the Midwest and Northeast, and the main "season" is only just beginning in those regions. When will it all end? Not too soon, if we're lucky.

FCC TV NEWS... This column will resume in the near future, hopefully. Your new FCC TV editor is: Wayne Plunkett, 124 John Street, Weston, Ontario. There have been many major happenings in U.S. and Canadian TV recently, and we hope to keep you up to date as television broadcasting in both countries goes through a period of very rapid change.

WE NEED YOU ... If you have an idea for an article for the VUD, or a cover, or whatever, we can always use your help. Especially needed are volunteers to retype material. By the way, anyone wishing to volunteer to do a column in the VUD must be able to type their own material.

CONVENTION NEWS...A report on the 1980 WTFDA Convention should appear in the October VUD. In the meantime, we urge those of you who are considering volunteering to host our 1981 gathering to act now. If you'd like to make a bid for the WTFDA '81 convention site, or need more info, write to HQ (address on the back cover).

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Greenville Draft

WIFBA

Bethany, OK 730
(405) 787-3717

Deadline: 5th

John Zondlo 1802 N. Rockwell Apt. 107 Bethany, OK 73008

New Members: Eric Cooper Steve Elisberg Mike Hardester David Letterer K. MacGregor Curtiss Seaman Edwin Tharp

24191 Spartan 6635 S. Dayton 574 Deer Springs Road 5320 Harbison RR #1 6624 Lemp Ave., #1 204 N. Russell St.

Mission Viejo, CA 92691 Englewood, CO 80111 San Marcos, CA 92069 Philadelphia, PA 19124 Mill Bay, BC VOR 2PO N. Hollywood, CA 91606 Eaton, IN 47338

Renewals: Jim Ayers, Saul Chernos, Joe Fela, Paul Gaines, Lawrence Glass, Dave Hascall, Robert Kramer, Robert Langridge, David Legler, K. Noffsinger, John Parillo. Don Ruland, Ron Schatz, David Walcutt, Robert Williams, Ron Wing, Roger Winsor.

Rejoins: Douglass Allen-1118 Millington Road-Schenectady, NY 12309 Mort Meehan-7682 North Star Ave.-Twentynine Palms, CA 92277 Dan Samer-2001 Cypress, Lot 1-Bay City, TX 77414 Dr. James Snow-Box 746-Darien, GA 31305 James Sofonia-4167 Holiday Road-Traverse City, MI 49684 Tracy Wood-220 S.E. 32nd Ave.-Hillsboro, OR 97123

Address Changes: Jim Ayers-Route 8-Murfreesboro, TN 37130 Lawrence Glass-408 F St.-Eureka, CA 95501 Robert Kramer-4639 N. Albany-Chicago, IL 60625 Steve Shaffer-2112 Westpark-Whiting, IN 46394

Renewals Due in October: Dr. R.B. Ammons, Alex Berman, Tom Bishop, John Comstock, Vernon Eaton, Robert Eddy, Phil Epstein, John Kosinski, Jr., August Miller, John Rieger, Colbert Robbins, Jr., Dr. Joel Rosenberg, W. Ryan, Arthur Schaefer, William Scully, Steven Shaffer, Robert Sowinski, John Sullivan, Mike Sweeney, Larry Van Horn, Walter Wesolowski, Jim Wixon, Dr. Richard E. Wood.

Our first new member this month is ERIC COOPER. Here's how he introduces himself, "I am 24 years old and am a DX'er primarily in the shortwave bands, but have had some experience with TV-FM DX over the past few years (both sporadic-E and tropo). I am currently a member of NASWA. and heard about WTFDA through DX publications and ANARC." Welcome aboard!

From sunny southern California comes new WTFDAer CURTISS SEAMAN. He's into PSB DX, and belongs to the Scanner Association of North America (SCAN). Gear includes a Realistic Pro-2001 and a Heathkit HW-16 for the ham bands. He's working on his Novice ham ticket now, and also plans to get a Bearcat 300 in the near future.

Finally, EDWIN THARP tells us he's most interested in TV DX, plus shortwave, BCB, FM and VLF (especially 160-190 kHz). His home town, Eaton IN, is just north of Muncie, home of the top football school in the Mid-American Conference, Ball State University.

Good to have James Sofonia back in the club! I love the name of his TV repair shop- Captain Video. He writes, "I have been very busy as the manager of this TV repair shop, but am going to get active starting by renewing. I have increased my tower at home to 136' with additional 15' mast and have seen some good DX come in! I have a Sony TV and Heath digital FM tuner for receiving equipment."

Also coming back this month is Tracy Wood. He writes, "VUD was probably the best club bulletin I have ever seen. Presently I use a Pioneer DX-434 (sic) for FM reception and stay away from TV DX. If it was not for a stay in Bolivia for studying (78-79) I would have maintained my dues." Welcome back, Tracy!

Alas, we have a third rejoin with comments this month! Mort Meehan says, "Don't know why I'm renewing as I haven't heard any skip at all this season. Last year I had several weeks of midwest skip and almost rejoined. Probably joining because I have just returned from three days at ANARC Convention some 150 miles away in Irvine CA, and the first letter I looked at in my mailbox upon returning home was your request I rejoin." In each letter to members who have left, we pose certain questions, which Mort answers: "Reason for leaving WTFDA- probably because I belong to too many clubs and while I'm interested in BCB DX, longwave DX, SWLing. FM DXing and scanning, the total cost of all clubs is high for me. Suggestions for improving WTFDA- would like to see more of the clubs combine to publish one LARGE magazine type bulletin. This would save me money, and with the larger magazine it probably would gather more members and perhaps even become a newsstand type magazine.

"Further info: FM main receivers here are both Radio Shack- the STA-78 and Clarinette 98, and I use a ten element antenna with a booster on it. Depending on direction of antenna my daily reception is from stations 100 to 250 miles away, which covers Los Angeles, Las Vegas and Phoenix, mainly. They all come in loud, but fade slowly deep so program use is sometimes not the best. Only local FM is KQYN some 8 miles away and stations like Palm Springs only 40 miles away are difficult due to

"You might say I'm a fringe-DXer in several senses. My main interest in radio is BCB DXing and FM is on the far edges. This is why I probably don't renew each time. I probably first joined WTFDA about 20 years or

more ago as it had a mimeographed bulletin then.

"ANARC Convention was terrific for SWLs, as many foreign announcer-DX specialists were present from the foreign stations... Canada, New Zealand, Swiss, Belgium, etc. The entire program was thus aimed at SWLs, who were most of the audience. I don't think anyone represented WTFDA at this convention. (Don Erickson did, Mort-jz) About 175 attended, maybe more. About \$2,000 raised at HAP auction."

Now let's hear from Christopher Hanley: "Thanks to John Barber for snapping and Jim Alexander for printing the AETN slide in Photo News, 1/80 VUD. After seeing the photo, I recognized a similar, brief AETN ID slide on my screen July 10. And thanks to Rick Samford for the TVG

"I thought folks might want to know- WTFDAer Joseph Smith was mentioned on the HAP segment of HCJB's DX Partyline, aired July 13, 1980.

He's evidently one of HAP's top DXers as well.

"Finally, thanks for the new, swifter production of the VUD (July issue arrived 7/23). Not that I'm in a position to complain, otherwise. I know the people who produce the magazine (Thompson, Hogan, et al) work

hard on it - I'm happy to get it whenever."

Garden State member Bill Fahber writes, "This is my first time writing to the Mailbox, since I joined only a few months ago. Having been a solo DX'er for many years. I've never studied much about the hobby until a year ago, and I've recently learned a lot of techniques through the VUD and other sources of information, It was only a year ago I learned about the FCC's principle of offsetting TV frequencies by 10 kHz to reduce interference problems. I've observed differences in interference patterns for years, but never really sought an explanation of the difference.

"I've made an interesting observation of several instances where TV stations using the same offset frequency as a local station, each one would produce its own unique pattern. The stations I observed are KTEW-2 and

KMTV-3, whose offset frequencies match WMAR-2 and KYW-3.

"Although the FCC allows the stations to stray as much as 1 kHz from its offset frequency, these stations are so well matched as to produce not a series of horizontal bars, but rather a pattern of fading in and out. It looks much like the effect produced by airplane reflections except: 1. The rate remains unchange |, 2. The TV will show two pictures at once without any lines (unless a third station creeps in), 3. It continues over a long period, and 4. There is no 'ghost' as is produced by reflection. I observed the following examples:

I. Every time KTEW (2, Tulsa) comes in over WMAR (2, Baltimore). both having a +10 kHz offset, the picture pulsates 6.5 times per second. indicating only a 6.5 Hz difference in frequency (on one night this pattern existed, and all I observed was a commercial for Waterbed Palace:

having this clue, I found it listed in a Tulsa phone book).

II. KMTV (3. Omaha) and KYW (3. Philadelphia) both have no offset frequency. KMTV has come in on several occasions, always producing a 4.2 Hz pulsation.

III. Other stations observed on occasions: KBTX (3, Bryan TX) over KYW produces 10 lines over the picture, indicating a difference of 600 Hz. KUSD (2, Vermillion SD) produces a 10 Hz pulsation over WMAR. KTVO (3, Ottumwa IA) produces 42 Hz pulses (can be mistaken for KMTV).

"Anyway, it appears to me that describing some of these patterns can help identify a station. So I'm going to start keeping track of these patterns. Another project I'm planning involves the buzzing sound you hear from two stations differing by 10 kHz. Ever notice the variation in pitch when you flip through the channels? I venture to guess that the combination of any two stations will cause its own particular pitch, ranging somewhere between 8 to 12 kHz. I'll let you know if I find any

consistent pattern,"

Next up are some comments from John Combs of Orlando, after which this particular exchange will cease: "I feel that I need to respond briefly to the comments of Mr. DuBois of Portland OR as quoted in the May VUD. First of all, I am not possessed by any "cult;" in fact, at this point in time. I am not a member of any church or organized Christian body, although I am searching for a spiritual "home." Secondly, I made it very clear in my previous comments that I am not condemning the DXing hobby in any way. I had no intention of "attacking" anyone involved in the hobby, and if Mr. DuBois read this into my comments, then I'm afraid he was mistaken. I have always resisted using the VUD as a forum to propagate my beliefs, in spite of my strong commitment to them. The only reason that I felt it necessary to bring my faith into the picture was that it was the deciding factor in my formally leaving the hobby. I felt that an honest, straightforward approach was far more appropriate than simply "disappearing" from view and never explaining why. Mr. DuBois has as much right to disagree with my beliefs as I have to believe that they are the Truth, and I am pleased that John Zondlo afforded him "equal time," so-to-speak. I hold no grudge against Mr. DuBois, and am sorry if anyone else was offended by my "ravings." To repeat: I never said that DXing is "sinful" or "wrong." There is nothing inherently wrong with the hobby. For me, however, it had become counter-productive to my faith, and I simply had to stand on some priorities. In spite of everything, I still sincerely wish all good DX

Remember A.H. Wiese? How could you forget, hi. Here's the latest from our West German friend: "Well, you won't believe what happened to me. To say it right now- I became TV DX editor of the only (as far as I know) European FM/TV Club; at least it's the only German club devoted to this kind of DX. Shortly after my letter to you in June I became aware that there already exists an FM/TV club here in West Germany. Sure, I immediately became a member, and found the club to have no TV DX editor. They were looking for one. And I, yes sir, decided to take this unique chance and so now I'm TV DX editor. And I really love it.

"OK, for my very first TV DX section I thought to use a short article out of VUD. I decided to take Glenn Jacobs' fine notes of receiving BBC-1 from the May issue. Translated it and it was printed

in number 20 of Reflexion.

"Our member, Rijn Muntjewerff, from Holland is one of the top TV DXers here in Europe. As he sends in his logs in English I sure copy them as they are and those logs you may read and understand. He logged USA TV!

"Could you give my address in VUD? Possibly some European TV DXers would like to join us. But, attention!, we only accept active members. And our bulletin's language is German, of course. Till now we are not a club in the real meaning, as rather a "working group;" that's the reason we only count 25 members. Anybody interested should contact me: Alexander Wiese, P.O. Box 801965, 8000 Munich 80, West Germany. Will pass forward any inquiries to our directory board." We'll continue our report from A.H. in the next Mailbox.

Sorry to keep changing type faces all the time for Mailbox, My typewriter is really in bad shape, and is in the shop again.

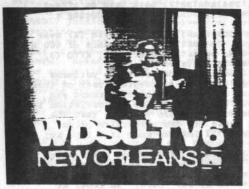
DX has been really poor here lately, especially with the hot weather. At this writing, we've only had rain twice in the last seven weeks, and the ground is scorched.

Oklahoma City '81? A capital idea! 

# PH TO-NEWS

Jim Alexander 4 Brook Court Parsippany, NJ 07054

September, 1980



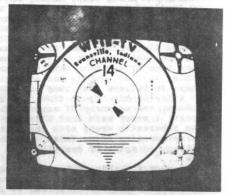
WDSU- 6 New Orleans, LA E-skip (Gaines)



KMID- 2 Midland, TX 930 mile E-skip 7/29/79, 1458 CDT (Shults)



WRJA-27 Sumter, SC 375 mile tropo (Combs)



WFIE-14 Evansville, IN 420 mile tropo (Draeb)



E-skip (Barber)

#### Contributors:

Paul Gaines, Detroit, MI

Marv Shults, Toulon, IL

John Combs, Orlando, FL

Bill Draeb, Kewaunee, WI

John Barber, Carolina, RI

73 and good DX,



## wtfda newswire...

Morrie S. Goldman WA9RAQ 5815 North Christiana Ave. Chicago, IL 50659

WTFDA NEWSWIRE RETURNS! After a period of low news activity, WTFDA NEWSWIRE is back. New product announcements highlight this month's report. Much of this news is a report of my visit to the 1980 Consumer Electronic Show...the industry's big trade show to show dealers what's new for 1981. I've concentrated my report on items believed to be of greatest interest to DXers. In addition, we have other news items hot off the prapevine. Your news items are also needed. Send us word whenever you spot news of interest to TV, FM or PSB DXers.

NEW VCRs... While I haven't had an opportunity to test drive every new VCR, I did see some impressive product improvements. Perhaps most impressive is Sony's new SL-5800 (Beta format) VCR. To be available this fall, the SL-5800 boasts 14 day programmability and BetaScan on-screen fast forward--from five to twenty times normal speed. The noise bar that appeared on the screens of other fast forward systems (including earlier BetaScan) was not visible on the 5800. Of particular interest to TV-DXers, the still frame and slow motion features produced incredible picture quality and stability. Slow motion can be varied from a still frame to one third normal speed. The picture quality was so good that it reminded me of the slow motion disc recorders used by broadcast crews for instant sports replays. The cost? Probably about \$1500 list. Also on the Beta track, a new Toshiba deck offers BetaScan at 17 or 40 times normal speed. Sanyo also offered new Beta decks, including a \$695 price leader (already seen discounted to \$595)...On the VHS circuit, the whole troup of suppliers are offering recorders with some type of on-screen fast forward and/or slow motion and freeze frame(this group is commonly being promoted as "special effects"). Some models, like the new line from RCA are noticably slimmer. Of course all offer 6 hour capability vs. 5 hours of Beta. VHS salesnow dominate the market, but it will be interesting to see the impact of the high end SL-5800 and the low end Sanyo on the total market... Most disappointing by its absence from most new VCRs is good audio response and stereo. By now, most new US VCRs were expected to be offering stereo sound (available in Japan) with full range audio response. Typical long play audio response extends to about 7000Hz--hardly high-fi.

PORTABLE VCR--SMALLER--MORE FEATURES... It's strange, but one of the most feature packed VCRs at CES is also one of the smallest. The new Akai VHS portable(remember the old Akai 1/4" B&W VCR?) offers variable speed play and freeze frame, sound dubbing and stereo sound with Dolby noise reduction. Its companion TV tuner/timer has six-event, seven-day programmability. The Akai unit weighs just 131bs., but the lightest of the show award goes to JVC with an 11.4 lbs.unit...Looking much farther into the future, Sony has been showing a prototype all-in-one VCR and color camera. Dubbed "Video Movie." the incredibly compact (7.6x6.8x2.4") 4.4 lbs. unit is to be available around 1985 for under \$1000. Sony is showing the unit now to interest other manufacturers in developing industry format standards. This helical scan recorder uses an 8mm video tape. As it's designed to knock out the 8mm movie market, that's some coincidence(?)!

SAW STRIKES FM... In past VUDs we've talked about SAW (surface acoustic wave) i-f filters and their promise for the future. Those tiny selectivity blocks had already appeared in TV receivers from Zenith, RCA and Magnavox, and now they've struck FM. The first FM tuner with a SAW filter i-f that I've encountered was shown at CES by Panasonic. The new ST-CO3 is quartz synthesized and offers 8 AM and 8FM presets, plus electronic (no-knob) up/down tuning. Specs are acceptable, though not great by DX standards. Sensitivity is 38.3dBf; s/n is 72dB and selectivity is 75dB. SAW filters hold the promise of very high selectivity at low cost. The ST-CO3 is a first step... Panasonic also showed an active indoor FM antenna. The 17" long SH-F101 is resonated to frequency by a varactor diode tuning system. When used with the ST-S7 or ST-S3 tuners, this tuning is automatic. On other tuners, a manual tuning control on the antenna base is used. Don't expect it to be a DX magnet, as relative gain is -2dB... One last Panasonic new product intro of note--an AM/FM/SW portable selling for \$38001 Enough said about that!

NEW UTILITY GUIDE COVERS VHF/UHF... Steve Handler's new Radio Communications Guide is designed for all types of utility Oxers and is mostly a shortwave reference guide. It does however also contain many frequency listings in the VHF and UHF range, including US and foreign military, many US government agencies, hospital and emergency frequencies, railroad and mobile phone channels and more. A list of Canadian police frequencies is also included. The 79 page comb bound 8-1/2 x 11" book is available from Handler Enterprises. Inc., PO Box 48, Deerfield, IL 60015. It's priced at \$6.95.

IT SEEMS that we're out of space already. Next month we'll having much more news, including word of a two channel video recorder, what's new in TV and autosound, and details of a new "hot" UHF tuner from Panasonic. Til then, 73, Morrie



## **FM NEWS**

New Stations Granted

IL Macomb 103.1 3000 h,v; 300'; KY Greenville 105.5 3000 h,v; 300': rock MA Tisbury 92.7 3000 h,v; 280'; rk MS Prentiss 98.3 1000 h,v; 94'; k MT Sidney 93.1 100000 h,v; 400 OR Astoria 92.9 99000 h,v; 540'; mk OR Toledo 107.1 1260 w; 430'; kr; h & v TX Seminole 106.3 3000 h,v; 170'; k TX Victoria 107.9 58000 h.v: 360': rm VA Buena Vista 96.7 3000 (h); -296 W) Hayward [Reserve: 45-52-14;91-21-34] \*88.9 100000 h,v; 600"; \$, Dolby.

On Air & DX Ready (Selected) CA Lompoc KRQK, K-Rock, r, 100.9 \$, N (3000 h.v.: 30') NY Lake Placid WPLW 105.5 (not 95.3) 3000

NJ Newark WBGO \*88.3 NY Niagara Falls WZIR 98.5 r, "Wizard" Off the Air

ON Cobourg CFMX 103.1, said to have an incompetent staff, but may return,

Formats/Networks

ME Portland WMGX 93.1 rp, The Source MI Traverse City WNMC \*90.9 rock 108 MO St. Louis KMJM 107.7 r or rd: Magic / NY Buffalo WGRQ 96.9 T, "97-Rock" OK Edmond KKLR 97.7 k, "Clear Country" WI Milwaukee WLUM 102.1 sjd, AP Audio

-"really a good station."
ON Oshawa CKQT 94.9 mr (night simulcast with CKAR when rock occurs) ON Sudbury CIGM 92.7mr (night simul-cast with CKSO when rock occurs) PQ Montreal CHOM 97.7 rp, onID sounds like "Shom FM." Still English?

Non1Ds, Slogans used in lieu of Calls

AR Fort Smith KISR 93.7 Kisser-93 1107 AR Texarkana KADO-FM 107.1 Studio-/ GA Perry WPGA-FM 100.9 disco (from m). FM-101

MD Baltimore WBSB 104.3 B-104, †PRN MA New Bedford WMYS 98.1 Steroe 98,rm MA Orleans WKZE-FM 104.7 KZ-104 NH Claremont WECM 106.1 M-108 NY Buffalo WBFO \*88.7 FM-88 NY Buffalo WACJ 104.1 now rock, FM-

104-changed calls from WWOR between baseball doubleheader it was carrying. OH Canton WHBC-FM 94.1 Stereo-94 OK Broken Arrow KMYO 92.1 Cameo-92 PA Meadville WZPR 100.3 The Country 1 TX Arlington KWJS 94.9 Sonlife 95 TX Greenville KIKT 93 5 T-95 TX Port Arthur KYKR-FM 93.3 Kicker ON Barrie CHAY 93.1 "Chay" ON Brantford CKPC-FM 92.1 Stereo 92

ON Ottawa CHEZ 106.1 Shay ON Peterborough CKQM 105.1 QM-FM PQ Montreal CJFM 95.9 FM-96, strict, possibly not even using calls at all!

SCA †67 kHz Subcarriers [102.5 St. Louis M0 Farmington KTJJ 98.5 farm; no SCA / KEZK CT Hartford WJMJ \*88.9 talk (for blind?) DC Washington WOOK 100.3 ethnic/ Spanish, Radio Sur (K-Jeff) MO Jefferson City KJFF 106.9 no SCA/K NE Nebraska City KNCY-FM 97.7 adds † NC Boiling Springs WGWG \*88.3 no SCA WA Seattle KYYX 96.5 no SCA

KRAB no SCA; dropped a year ago, after playing Spanish tapes backward for several days. WA Wenatchee KPQ-FM 102.1 music

Call Letters Assigned or Changed AL Chickasaw 98.3 WTUX AZ Bullhead City 102.3 KRHS-FM (was KRHS

AR Cave City \*89.9 KZIG FL Big Pine Key 93.5 3000; 190'; rock;h,v CA Alturas 94.5 KBGX DE Milford 97.7 WAFL-FM (WAFL) GA Savannah 97.3 WAEV (WXLM) ID Mountain Home 99.3 KQKZ IN Alexandria 96.7 WAXT IN Huntington 103.1 WHUZ (WHLT-FM) IA Clinton 97.7 KNJY (KLNQ) m (ex-r) MI Grand Rapids 101.3 WCUZ-FM(WFFX) MI Jackson 94.1 WIBM"-FM" (WIBM-FM) MI Petoskey 96.7 WMBN"-FM"(WMBNFM) MI Whitehall 95.3 WCNF (WTRW) MO Osage Beach 93.5 KYLC (KRMS-FM) MO St. Louis 93.7 KSD-FM (KCFM) NC Wallace 94.3 WZKB (WLSE-FM)

(KACW)

Facilities Changes

TX Paris 99.3 KTXU

AR Conway KUCA \*91.5 4700 h,v (59') CA Holtville KGBA 100.1 300' (3000 h,v) FL Gainesville WRUF-FM 103.7 100000 h,v; 340'; Orlando WUCF \*89.9 adds vertical IA Des Moines KUCB \*89.3 5000 h,v;260' IA Sioux Center KDCR \*88.5 (from 91.3) 100000 h,v; 470'

OH Fairfield 94.9 WYYS (WLVV)

ON Smith Falls 101.1 CKUE

Q-101 (from CJET-FM)

MA Springfield WNEK \*97.5 (from 89.1), 13 watts, -23' 13 watts, 23: MI Gaylord WPOL 95.3 2000 h,v; 360' NM Ramah KTDB \*89.7 100000 h,v; 370' OH Centerville WCWT \*92.1 (from 91.9), 18 watts. 200'

PA Wilkes-Barre WYZZ 92,9 9000 h,v / VA Hampton WHOV \*88.3 1250; 195' h,v PR Viegues Island WLID 98.9 850' ON North Bay CKAT 101.9 (from 93.7),

incredibly Country 101 (not -102), or C-Cat. MN Duluth KODS-FM 94.9 37000 (400') SC Columbia WNOK 104.7 100000 h.v; 750' Abbreviations Used this Column

Music c classical, disco, e shhic, gospei, is jazz, k country, m middle of the road (no rock), rock, a south progressive rock. Nerworks: A country, m middle of the road (no rock), rock, a south progressive rock. Nerworks: A south middle of the road (no rock), and the rock of the rock of the rock of the road (no rock), and the road (no rock) and the road (no rock) and rock of the road (no rock), and road (no rock) and road (no rock). The source, U United Press Audio. 1 is or FMSCA, usually 67 kHz from the center of the FM station's carrier, with PRN being the Physician's Radio Network. **Dual-City Identifications Granted** 

HI Kailua KJYE 96.3 adds Honolulu MO Liberty KSAS 106.5 adds North Kansas

PA Hollidaysburg WHPA 104.9 adds Altogra WV Oak Hill WRJL 94.1 adds Beckley PR Fajardo WDOY 96.5 adds San Juan

Contributors this month & last Robert Baker, Humboldt IA (who says the new KTPR \*91.1 Fort Dodge to go on air 9-15-80). Phil Boersma, Spring Lake MI, Ron Brey, Des Plaines IL (chief engineer WVVX-FM Highland Park ILI, Danny Buntin, Stillwater OK, Steve Cerler, c.e. KFKX Gregory SD (to have variety, big bands, nostalgia, ethnic, polkas, etc., to contrast with the "sonic garbage on most stations. . . Our call is a salute to the old Hastings station back in the 20's to relay KDKA." (1) Also: Saul Chernos, Burnt-River, Ont.; John Clemmer, Peoria IL (who collaborated with Tim McVey in supplying a wealth of southern FM station information, Tim is from Boliver TN); Thomas E. Connaster, Sevierville TN; Eugene E. Cooper, Lompoc CA; Mike Dalton, Clearwater FL; W.O. Dickerman, Williamsport PA; Vernon Eaton, Benton AR; John Ebeling, Bloomington MN, Paul Gaines, Detroit MI; Kevin Hilley, Lindenwold NJ; Lyle Henry, Los Angeles CA; Joel Hermann, Storm Lake IA; Marc R. Joondeph, DDS. Seattle WA: The town in Washington is spelled Puyallup, pronounced: Pew-AL -up. Also: Michael R. Kohl, Anchorage AK; Walter Kowal-czyk, North Huntingdon PA; Nick Lemonakis, Baltimore MD; Greg Leo, Lincolnshire IL, Albert

Bruce F. Elving, Editor 4515 Avenue "E" Kearney NE 68847

S. Lobel, San Diego CA, Nick Lombardi, Atlanta GA; Arnold J. Madiol, Grand Haven MI, John K. Major, WFMT Chicago IL; Morton D. Meehan 29 Palms CA, who says without yagi antennas he'd only get the local KQYN. He uses two ten element FM antennas-one aimed at Phoenix, which comes in 80% of the time clearly, and the other points to Las Vegas; he gets Mountain Pass 99.5 in stereo More contributors: David G. Melson Shelbyville TN; George J. Mileon, Lynn MA, who hears some warble tone on WVBF Framingham's SCA after midnight; August J. Miller, Newark CA, who reports the schedule for KSFH \*90.5 Mountain View CA. It is operated by St. Francis High School and is on only Monday nights 7 pm to 10 pm for Mountain View City Council meetings. And Greg Monti, Silver Spring MD, who has a Beam Box indoor FM antenna and likes it, but says you have to use coaxial cable with the Beam Box, because 300ohm wire would distort the pick up and the Beam Box's directional pattern; Norval Pagenhardt, Scotland MD; Walter Patton, Montreal PQ: "You'll have to admit you pursue your avocation to remarkable limits—I mean moving to a point within 70 miles of the geographic center of the conterminous U. S. just to maximize your chances of receiving every FM station. Now that is dedication!" [So far I haven't done it—CA skip and trans-Rockies trops have eluded me.] Also: Jim Pizzi, Orcutt CA, who has nice things to say about the FM Atlas, Michael F. Ravis, Davenport IA, who wonders why into effect in June and only this month appearing the vud. Blame both the FCC, sometimes they are three months late in announcing station changes, as well as our printer-when you know about FM news don't hesitate to write in and share it with others; that way we'll all know it sooner. others; that way we'll all know it sooner. Also: Sheldon Remington, Fairfax CA who has also tried to hear KSFH \*90.5 Mountain View but can't in Fairfax because of mountains; back in 1877 it was on 1300-2130 weekdays, but has apparently land illegally?) cut back its schedule considerably since then. And, Sgt. Jay L. Rudko, APO Saattle WA; W. T. Ryan, Victoria BC; William L. Scully, Hudson OH-Steve Shaffer Whiting IN, Ken Simon, Lake Worth FL, who says WTM 193.1 is the ton classical FMI in the mation, with juzy 12. is the top classical FM in the nation, with jazz 12 to 6 am; Joseph Smith, Jr., Johnson City NY; Rev. Thomas Sofranec, Cape Canaveral FL; Peter Stackpole, Machias ME; Ralph Strobel, Muncie IN who says WDHS \*91.1 Gaston IN was on only one month last school year, now off, and wonders how station can broadcast one month and continue to be licensed by the FCC? Also contributing: Shel Swartz, West Palm Beach FL; Art Thompson, WFME Newark NJ, who says Arthur Liu of Sino Broadcasting has gone with WVNJ-FM 100.3 with a second Chinese channelmaking for three Chinese channels in New York City-Newark NJ, heard on FMSCA; he also says PRN wants to find a UHF audio channel to avoid SCA. Alexander Tanger, GCC Communications, Boston, called me the other day and I told him about the overmodulation of his WEFM Chicago, and how this can make PRN unhappy. because of poor subcarrier modulation left for this PRN operation at 99.5 MHz. And Bill Thompson, Buffalo NY came through with all sorts of station news, including newspaper columns reporting the ascendancy of FM stations in Buffalo ratings WBFO 88.7's power increase, etc. And John W. Trotter, New Iberia LA; Larry Weil, Acton MA; Roger Winsor, Plymouth IN; Dr Richard E. Wood, Cape Girardeau MO; Neil G. Zank, Lincoln NE, who heard KTCH FM Wayne NE on 105.1, not 104.9: 8ob Zent Huntington IN; John Zondlo, Bethany OK. Also: Jacob Dilliplane, Atoka TN; Steve Rothrock, Schertz TX. Wm. G. Martin, St. Louis MO.

Adding SCA: CA Hemet KHVE 105.5, FL Miami WDNA-198.9, IA Ceder Rapids KTOF 104.5, ME WDNA-198.9, IA Ceder Rapids KTOF 104.5, ME Carborough W3B. CARBOROUGH W3B



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

NS CHHT 3 Halifax, P. O. Box 3000, B3J 3E9. "CBC Halifax" OSL Card in 4 months from Peter MacGillivray, Public Relations. Hepburn

ON CFMT 47 Toronto, 545 Lakeshore Blvd. W., M5V 2NB. Letter from James Snelling Dir. of Eng. in 6 days. (another \*!#!\*\* local!) Reid

CBLFT-12 44 Peterborough, % 111 Gerrard E., Toronto. CBC OSL Card from Public Relations, with promo items included in 2 seconds after visit station, for no return postage. Chernos (what does it take to get a OSL? To visit the station with your report? ed.)

CITY 79 Toronto, 99 Queen St. E., M5C 2M1. Form letter, with transmitter data with signer Ron C. Reid. I visited personally. OSL them before they move to channel 41...soon... Chernos

CKGN 29 Sarnia, % 81 Barber Greene Rd. Don Mills, Ont M3C 2A2, Send my prepared back my prepared letter form & coverage-map from Ass't. Dir. of E. transmitters of Gloobal TV Network Eddie

SA CKCK 2 Regina, Box 2000, S4P 3E5. Card received in 2 weeks from Program Director-W. Stevenson. Ross

IA KWWL 7 Waterloo, E 4th & Franklin, 50703. Letter from Edward M. Tink, Exec. V.P. of Eng., included a xerox of their page from tv fact book in 10 days. Reid

KCCI 8 Des Moines, Ninth at Pleasant St, 50308. Letter from Bill Huey, A.C.E., returned report with times corrected in 9 days. Reid

IL WGN 9 Chicago, 2501 Bradley Place, 60618. Letter from Robert I. Knudson. Manager of Tech. Operations, in 5 weeks. Reid

MA WTEV 6 New Bedford, TV Center, 02741, Large envelope with typed letter & coveragemap from James W. Gonsey, CE with reply in 2 weeks. Schweitzer

MO KYTV 3 Springfield, 999 W. Sunshine, 65807. Hand written note from Dennis White, Wolf

no title, sase used in 8 days. NE WOWT 6 Omaha, 3501 Farnham St, 68131. Letter in 2 weeks from Wayne L. Goetz, CE, stated that station received several phone calls from upper NY state reporting reception at the same time I did. (?) Hepburn

KMTV 3 Omaha, 10714 Mockingbird Dr. 68127. Letter in 2% weeks from Coleen Becker, Promotion Dept. Hepburn

OK KTEW 2 Tulsa, 3701 S. Peoria Ave. 74105, Letter signed by Mendes Napoli, Asst to the General Manager, news & operations in 14 daysd.

KGMC 34 Oklahoma City, 1501 NE 85th St, 73113. Letter from Greg Miller in 13 days.

SD KOTA 3 Rapid City, P. O. Box 1760, 57709. Letter from Fred Wuenschel, CE. Chernos Garden City/ Watertown, % KELO-TV-11, Phillips at 13th, 57102. "KELO-LAND

OSL CARD in 3 weeks fromM. Artus, Eng. Secretary. Hepburn TN WPTY 24 Memphis, 2225 Union Ave, P. O. Box 42424, 38104. Pat Walsh, CE sent note on

bottom of letter & card in 14 days. Langridge TX KENS 5 San Antonio, Ave. E & 4th St, 78291. Ray McMillan, CE send card in 8 days

to me. Langridge. KXTX 3 Bryan, 77801. W. B. Cox, CE sent note on bottom of letter in 17 days,

(same here). Langridge VT WETK 33 Burlington, % VT. Educational TV, Ethan Allen Ave, Winooski, VT 05404. Sent letter from Wally Edwards, Asst. Mgr in 1 week. Michalek

WY KYCU 5 Cheyenne, 2923 E. Lincolnway, 82001. Letter in 2 weeks for KYCU-TV-5 & KTVS-TV-3 Sterling, Colorade from Carl J. Occhipinti, GM. Hepburn (good OSL!)

KUTO 2 Casper, 4200 E. 2nd St. Card from Steve Broomell, CE Chernos This month TV-CSL REPORTERS are: William R. Hepburn, Niagara Falls, Ont (new reporter), Wike Reid of Willowdale, Ont (another new reporter), Saul Chernos of Toronto, Ont, Richard Eddie of St. Louis, MO, Robert S. Ross of London, Ont, Jeff Wolf of Silver Spring, MD & 3 more new reporters - Robert E. Schweitzer of East Prunswick, NJ, Alan L. Michalek of Springfield, "A & Pob Langridge of Purant, IA, VERY GOOD !!! Thanks for your support. New thing here: I will underline the reporter's name at end of item being report. 73's

## EASTERN TV-DX

Robert Kramer 4639 N. Albany Chicago, IL 60651

SEPTEMBER 1980

Deadline: 5th

Well, this year is sure different from last. Along with the super Es cx, some of which were highlighted last month, tropo has been the best ever. This has been due largely to the very hot temperatures throughout most of the midwest in the month of July. This very warm weather was due to very strong high pressure, which virtually stagnated (and is still there) over the Southwestern part of the U.S., creating a vast, almost nonstop duct all over the place. Because there were so many good days, I'm not going to bother describing them here, just read on. As it is, this could be the longest Eastern TV column ever. Probably even next month will be longer.

This word from WTFDA HQ Outpost in Brazil: The llamas are getting restless. Why? Because some of you are not putting your name and address on your reports. From what I hear, if this doesn't stop they are going to pay the offenders a visit. Now would you want to be held responsible for the death and destruction that is sure to follow such llama activity? I thought not.

Martin J	. Theil	12 P	rinceton Dr.	E. Holiday,	FL 33589	(EDT)		
June	Santana en	1	17 Tr	WFTV-9 FL	10	Es	WBAY-2	MI
June 12 Es	CKC0-2	ON	18	WCFT-33 AL	17		KDKA-2	PA
16	WDTN-2	OH	Es	XHIO-2 Mex	18		KTIV-4	IA
17	WBAY-2	WI	July		19		WDTN-2	OH

"I would like to receive some mail and write to member users of Bear-cats 250 & 210. I DX on Rembrandt rabbit ears (doesn't this cause your DX to hop around the screen ?,hi ed) only using a 10" B&W Panasonic TV. TV 10's tower is 4 blocks from me and FL Power Co. is 3 miles away right in line with it, so you see what I have to put up with in the noise problem." (Martin, could you please list the time of your loggings in the future ? Your line noise problem is more than likely a local problem, perhaps a neighbor's doorbell generator, 3 miles is a long distance for the power CO. to be the problem.ed.)

Tom	Yingling 221 Pinewood	Rd. Baltimore, MD 21222 (EDT)	A SALES	
June		19 Es 1945 WCIX-6 FL	20 Tr 2100	"New sat .XLTF
15 E	2030 KATC-3 LA	Tr 2100 WSBE-36 RI		of Spanish
	NTV-3 Cuba	2200 WNJU-47 NJ		Internation
16	2030 MTV-3 Cuba	WNYC-31 NY		Net. (SIN),
	2100 KINE-3 NE	WNYE-25 NY		call letters
	2136 WCCO-4 MN	2210 WXNE-25 MA		per newspaper
17	1800 CBYT-3 NF	2220 WEDN-53 CT	28 Es 2200	KARD-3 KS
	1815 CJCN-4 NF	2237 WVIT-30 CT		KLNE-3 NE
	1830 KYTV-3 MO	2240 WLVI-56 MA	29 2315	KYTV-3 MO
18	1600 KTTV-3 NO	2245 WLIW-21 NY		KOET-3 OK
	1838 KLNE-3 NE	WATR-20 CT	July	
	1840 KHAS-5 NE	2250 WVLP-22 MA		KATC-3 LA
	1900 WDAY-6 ND	2300 WWHT-68 NJ		KJAC-4 TX
	CBWT-3 MB	W6ØAI-60 NY	3 Tr 2000	WFMZ-69 PA
19	1800 KXON-5 ND	XLTR WWHT-68		WSBK-38 MA
100	1830 KMOX-4 HO	20 0030 WSMW-27 MA	-550	WXNE-25 MA
	1900 KSD-5 MO	Bs 1800 KIMT-3 IA		WSBE-36 RI
	1910 KARD-3 KS	Tr 2100 KA2XEH-56 DC	4 2300	WSNL-67 NY
	1930 CBHT-3 NS	Washington		W35AB-35 PA
	27,70 00111 7 10	wateringcon	2)30	TALEST IN

"Antenna is a Channel-Haster Quantum model-1114, used with Winegard Philadelphia XLTR WXTV-41 be-234 & TV is a Sony Trintron kv-1214. Winegard bc-234 is a VHF preamp, for UHF I have a Rionder-Tongue CMA-ub, with a 5' dish up 50'. That's all for TV DX. When skip is in, I go to FM. Also one note, I spotted a ch. 32 testing from Wash, DC, but can't remember what date it was. The call was WHMM-TV Howard University station from FM side of WHUR-FM. 73's for now, Tom."

David Aust	in 1800	Le	xington	Ave.	Ashla	and, KY	41101	(ED#)					
June	VELES !!	110		29 Tr	1000	Columbu	IS V'S		6	Es	1358	UnIDed-	2 PBS
28 Bs 2200	KCKT-2	KS	890			Beckley	V's				1558	UnIDed-	4 CBS
29 Tr 0930				July	WC. L				9	Tr	0610	WKYC-3	OH 220
377 678 V	Cinn. V			1 Tr	1855	WTOL-11	OH 237				2210	WTRF-7	WV 160
	WPTO-33	OH	133	5	1822	WTOL-11	OH 237					WTOV-9	OH 170
	WPTD-16	OH	120	6 Es	1130	UnIDed-	-2 ATV						1 PA 7
	WXIX-19	KY	107		1329	CKCK-2	SK T		14		0610	WLEX-18	
1000	WKEF-22	OH	120		1330	CKPR-2	ON 780	)	-				KY 107

EASTERN TV DX	+++++++++++++++++++++++++++++++++++++++	SEPTEMBER 1980
David Austin cont'	- or the second second second second	HISTORY OF STREET
14 Tr 0610 WIKY-32 KY 17	15 Tr 0630 WDHO-24 OH 237	16 Es 1158 UniDed-2 PES
2130 WLEX-18 KY 10	WUAB-43 OH T	1200 CFCIR or
0610 WTVQ-36 KY 10	7 16 0645 WNDU-16 IN 295	CFCL3, both
15 0610 WSBT-22 IN 29	WLIO-35 OH 180	ch 2 DITRE
0630 WKEF-22 OH 10	0700 WFMJ-21 OH 212	17 1855 CHFD-4 ON 780
		1857 CKPR-2 ON 780

"A bit of axplanation is in order recarding the RS DV of 1200.00 16. Thails", estimate of CFCL-6 is the only EE station in Timmins, the others being a satellite of a Sudbury str and a FF outlet, according to White's Radio Log. White's lists two CFCL satellites on Channel 2, CFCL2 Kearns, ON & CFCL3 Kapuskasing (CFCL2 is by far the most likely. They, according to the old WTFDA Station Guide, run 14 Kw, while CFCL3 runs only 90 watts, ed.) Ontario. (Harry Hajes comments on WERE's strong signal in the July VUD reminded me of my situation. I lime i make W of the WKAS LMTR and it plays minor havoc with my reception sometimies. WKAS-25 not only spreads ifself from ch. 20 to 28, but also has harmonic on ch. 50 and another on VHF channel ii ! Is there such a thing as a reverse harmonic? I called the technician at WKAS and he said it "couldn't happen". It's not an KLTR. Has anybody else seen anything like this?" (The problem is probably in your TV set. Since you live such a short distance from the WKAS tower, you TV is getting much more signal than it can handle, producing a spurious signal caused by overloading. Sorry about the messed up line at the top of the comments section., ed.)

Paul Mount 471 Emerson	Ave Teaneck, NJ 07666 (EDT)	
June	27 Tr 0543 WFSB-3 CT	July
27 Tr 0356 KYW-3 PA	0544 WPVI-6 PA	1 Es 1928 UnIDed-3 NF "CTV"
in color		"Need calls & location"

"EX is family Sears Silvertone (Circa 1967) with antenna in attic that doesn't move. Usually I tuned into TV after receiving a call from Joe Fela. Eric Fader, John Kromka, Bill Alisaukas, Dave Schmidt, and NNECer Harley Butstein of Fort Lee get calls from Joe or me when something's up. Had a nice phone call W/WTMDA's Mike Rossen of Richmond, VA who used to live 2 blocks away, but I didn't know him. 73." (Paul. tnx for the PX, don't you know there are laws about sending material of that nature through the mails. Next time, send one with a little bit less.,ed)

Steven	Sprachman	3939	Eve	Dr.	Seafor	d, NY 11	783	(EDT)					1	
July	THE RESERVE	100		1	6 Tr 20	00 Harri	sburg	Area	16	Tr	2000	WBFF-45	MD	
15 Tr 2	2000 WYAH-27	VA	310			Phill	y U's				2200	WGCB-49	PA	175
	WTVZ-33	VA.	300			WETA-	26 DC	230				"Rare		
	# 133					WLVT-	39 PA		HDe			- /		
16 5	2000 Commto	m Tr S							Days	MT	th th	op (days	MY	ru re-

logs of V's from Boston, Philly, Washington, D.C Salisbury, MDs Bastern PA, and V's from Philly & RI) June 23,24,25 26,27. July 2,4,5,7,8, 19,11,15,16,17, & 18. Days and times with Es (stations UnIDed) July 2 (2130), 8 (2000), 10 (1930). July has been fairly good as far as UHF trop is concerned. Otherwise, things have been quiet. There is not much TV news to report. If you get a test pattern on WSNL-67 and it doesn't come in straight, they are testing the STV-They do this most of their broadcast day (or so it seems). And in an article in Newsday, the group trying to get a license for Ch 55 Riverhead hopes to have the station on sometime in 1981. Well that's it.

		kman 2	328 (	riffith					PA 1915	(EST	(EDT)	WKRG-5	47	T
Janua					29	Es		WPTV-5	FL	15 188		WDIQ-2	AL	100
		WMAB-2						Cuba-2		96				
5		KGFE-2	ND	T			1800	Cuba-5		16		WESH-2	FL	
	1426	KQTV-2	MO		30		1756	WPBT-2	FL	18		KUSD-2	SD	
	1451	KSNB-4	NE					Cuba-5			1710	KXON-5	SD	
6	1227	KQTV-2	MO				1800	Cuba-2			Alama,	Cuba-5		
	1242	WDAF-4	MO		Jur	1e	-					KPRY-4	SD	
		KCKT-2	KS		14		1355	WMAB-2	MS		1727	WCCO-4	MN	
		WBRZ-2	LA			-		WDIQ-2	AL		1730	KTCA-2	MN	
	100000000000000000000000000000000000000	WWL-4					4 100	WTVY-4				KSTP-5	MN	
April	-/		241				1420	- The Contract of the Contract	AL		1757	WESH-3	FL	
	1714	WMDT-4	7 MT		15			Cuba-2	AL		1759	KSNB-4	NE	
4 11	7174	Salisb			1)			WBRZ-2	TA		1817	WTVY-4	AL	
Mode							174	WWL-4	LA		1830	WDIQ-2	AL	
6 7	0000	WUNK-2	E MO					No. of the last of	10 07-005			Can5		
0 11	0300	WITN-7	NC				. (00	KALB-5	. C		-	Manito		100
40 Da	4 600							WCBI-4	MS		1903	WBAY-2		
17 198		KETS-2						KPRC-2	TX			CHFD-4		
		WNGE-2						WMAB-2	MS			CKPR-2	ON	
		KARK-4					1904	Cuba-4						
23		WBRZ-2					1915	Cuba-5			- T. E. L. C.	CBYT3-	CONTRACTOR OF STREET	
		KQTV-2	MO				1937	WPBT-2	FL			CBYT-5		
29	1732	WPBT-2	FL				1950	WTVJ-4	FL		2100	KGFE-5		
		WTVJ-4	FL					WCIX-6	FL			Grand 1	ork	ă.

Richa	ard Eckman co	ont'				100	L'EXX	Altro-		Ī
18 B	s 2130 KTIV-4	IA	29 Es	2315 KARK-4	AR 1	0 Es	1929	WPTV-5	FL.	
	WOI-5	IA 7		0908 UnIDed-2				WTVY-4		
2.4	1750 WPBT-2	FL	JULY	To the second				WDIQ-2		
	WEDU-3	FL	6 Es	1210 KTCA-2	MN			WKRG-5		
	1757 WTVJ-4	FL		WBAY-2			2001	Cuba-4		
	WPTV-5	FL		1220 WDAF-4			2001	Cuba-5		
	1900 WESH-2	FL		1222 WCCO-4	200	1 2P	1250	WAPA-4		
20	0915 WBRZ-2	LA		1242 KQTV-2		T				
29	2102 KETS-2	AR	10	1902 WPBT-2				WORA-5		
	2105 WBRZ-2			1904 WBRZ-2			1/40	Mayagues		
	2315 KTEW-2			1929 WTVJ-4				WKAQ-2		
	KTVY-4			CONTRACTOR OF THE PROPERTY OF	LA	-		San Juan		
	ALT.	OIL.		##T+	Lat	198	1755	WESH-2	FL	

"July 11 was the only high point of this so far pitiful Es season. For over three hours I had off/on reception of three Puerto Rican stations. WAPA-4 was by far the best received with a beautiful ID at 1600 which I got on tape. From 1600 thru at least 1700 WAPA and WORA-5 were running // first with SS dubbed "Johnny Quest" cartoon and then some other cartoons from 1630-1700. This may account for the many mentions of "Quatro y cinco" had on WAPA. A positive WORA ID was taped at 1700. WKAQ was in for the entire period but rarely strong enough to break through strong WCBS-2 interference. However, I was able to get several periods where SS pgming surfaced, e.g. at 1745 when SS version of the "3 Stooges" was seen. Given the long duration of the opening (and high MUF) I wonder if this wasn't long single hop skip with linkage to Tr at one end or both ends. A UHF opening to coastal Virginia was noted by me up to about 1100 that morning. Distance to San Juan is just under 1600 miles from Philly."

Frank Wheeler 6589 Wattsburg	Rd. Erie, PA 16509 (EDT)	
June	6 Es 1401 KTVS-3 CO 1184 15 Tr 0702 WILX-10	MI 236
29 Es 2059 KTEW-2 OK 943	1403 KDLO-3 SD 846 21 Es 1029 WPBT-2	
2100 KTVY-4 OK 1040	40 4004 19999 0 1000	OK 943
2259 KETS-2 AR 825	The state of the s	FL 1098
2330 WDIQ-2 AL 815	0.404 (1999) 0 44-00	NE 1066
July 2 Es 2235 CKCK-2 SA 1322	41 m 64 m 64 m 64 m 64 m 66 m	KS 1015
		AR 825
5 2200 KCKT-2 KS 1015	Anna mana a sa tang	NE 1066
6 1300 KCKT-2 KS 1015	1232 WBRZ-2 LA 1030 26 2400 KLNE-3	
1302 KQTV-2 MO 779		AR 825
1357 WPBT-2 FL 1098	2242 11470 2 102 242	LA 1005.

"In my last report I reported that I rec. KTVQ-2 MT but didn't as it was a mistake, sorry to say.

May					3	Ave. N Es 1601	KTIV-4	IA	860	18 Es	(EDT) 1408	METY-5	FL	1145
1 Tr	1200	WDIV-4	T			1653	KDLO-3	SD	905		West	Pala B		
4	0739	WJAN-17	OH	T	4	1854	KARD-3	KS	1045		1414	WSB-2	GA	T
	0820	WUHF-31	NY	73		1856	KTEW-2	OK	T		1416	WDBO-6	FL	or
		Rochest			15	1820	WBRZ-2	LA	1125			WOTY-6	GA	
		"New st	n o	n"			KTBS-3	LA	1100		1423	WRBL-3	GA	T
5	0751	Detroit	U.	s			KATC-3	LA	1170		1424	WEAR-3	FL	1010
22	0739	Toledo	V's		16	2116	KTEW-2	OK	1015		1528	WSAV-3		
24	0914	WKEE-50	MI	210			KOET-3	OK	1045			KTYY-4		104
30 Es		KTBS-3					KFDX-3	TX	1230		1704	KOET-3		104
		KDFW-4					KTVY-4	OK	1045			KARD-3		104
		KBTX-3		1285			KOCO-5	OK	1045			KOTV-6		101
		Bryan		-			Oklahom	a C	ity			Tulsa		-
	1955	KTAL-6	LA	1100		2132	KDFW-4	TX	1185		1730	KDFW-4	TX	1184
		Shrevep				100	KXAS-5	TX	1215			KETS-2		T
	2031	WBRZ-2					KOTV-6	NE	or			WOWT-6		870
		KOET-3		T			KAUZ-6	NE				KSTP-5		700
		KENS-5					KTVI-2	MO	T			KCKT-2		T
		San Ant				2149	KBTX-3	TX	1285	19		WLBT-3		945
		KATC-3			17	1228	WLBT-3	MS	945	7.5		WBRZ-2		1125
une		31002	Charles.	7.		1332	KARD-3	KS	1045		177 CO. C. C.	KALB-5		T
1 Es	1244	KOTA-3	SD	1195		1916	CBHT-3	NS	770			WCBI-4		T
2				1170		2058	KDLO-	SD	T			WRBL-3		T
		KOET-3		1045		2127	KOTA-3	SD	1195			KARD-3		1045
				1230		2156	WBRZ-2	LA	1125			KOET-3		1045
3			OK				WWL-4	LA			1730	KTVS-3		
		KTEW-2	OK		18	1357	WCBD-2	SC	T			FF lan		
		KTVS-3	777	1250			WEDU-3		1090	20		KDLO-3		905
9		-		)4									20	10)

	GRN TV DX			S EPTEMBER 1980
	am R. Hepburn cont	20 1	2400 warm 2 or tole 22	n. then mm a st teta
0 E	1129 KPRY-4 SD 1065	20 1	2120 KOET-3 OK 1045 23	Es 1407 CKCK-2 SA 1310
	Pierre		2122 KTVY-4 OK 1045	Regina
	1132 KOTA-3 SD 1195		2157 KYTV-3 MO 855 29	2253 WREG-3 TN T
	1224 KHAS-5 NE T		2230 KXAS-5 TX T	2255 KARK-4 AR T
	1302 WCCO-4 MN 705		2233 KTEW-2 OK T	2258 KOET-3 OK 1045
	1410 KUSD-2 SD T	23	1056 KXJB-4 ND T	2307 KYTV-3 NO 955
	2105 KTVI-2 MO 650		1339 KOTA-3 SD 1195	
			The ordinated of the second	
	rt S. Ross Box 4373, St		ondon, ON N5W 5J2 (EST/EDT)	r 2120 WAKR-23 OH
pril			r WJKW-8 OH 100 24 T	2123 WUAB-43 OH
2 11	CBEFT-78 ON 120	May	UYON 20 NT 190	
	CBLFT-68 ON 60	)	WXON-20 MI 130	2125 W67AI-67 OH
	WGPR-62 MI 120		WJBK-2 MI 120	2126 WVIZ-35 OH
	CICO-59 ON 60		WDIV-4 MI 120	2131 WTVS-56 MI
	WTVS-56 MI 120		WXYZ-7 MI 120	2139 WKBN-27 OH
	WQIN-54 PA 100		CFTO-9 ON 120 29	
	WKBD-50 MI 120		WVIZ-25 OH 100	0945 WBGU-57 OH
	CKCO-42 ON 60		WNEM-5 MI 200	0947 WFFT-55 IN
	CICO-32 ON 120		WKYC-3 OH 100	0951 WNOU-16 IN
	WDHO-24 OH 150		WEYI-25 MI 130	0949-MIKE TO IN
	WXYZ-7 MI 120		WTVG-13 OH 150	0953 WPTA-21 IN
22	WUAB-43 OH 100	June		
1000	WAKR-23 OH 100		r 0355 WTVG-13 OH	
3	WSPD-13 OH 150		s 1455 CKCK-2 SA	
	- Villagorio de la companya della companya della companya de la companya della co	- Marketon	4	
Nove	Gould RR #3 Kokomo, IN		(EST) 2007 WPGH-53 PA 320 29 T	0000 4000 #
	r 0741 WMAA-29 MS 620			r 0900-1000 Very bad ove
1 11		30	2300 WENY-36 NY 490	load UHF, even W/
	0747 KIMN-24 AR 580	31	1400 KY, Pitts. to	Winegard amp. The
	0753 KTVP-29 AR 537		Erie, good	ant. with the CMA
	0816 WBMG-42 AL 490		1407 WBTI-64 OH	is unuseable.
24	1130 WRBT-33 LA T	March	30	2230 WPTY-24 TN 433
	WGNO-26 LA T	15 Tr	1630 WGCV-24 WI 190	2300 WLJT-11 TN 366
	WPTY-24 TN 433	June	July	
	2010 WBRE-28 PA 545	25 Tr		r 0800 WBMG-42 AL 490
	2011 WVIA-44 PA T		2240 KBMA-41 MO	Huntsville U's
	2015 WUTV-29 NY 404	26	0653 KTVP-29 AR 537	1993
	2017 WTAF-29 PA T		anno water o wa liet	sort of streched my 6
	2100 Ch 8 Nashville		4000 marm 44 on /40	th policy on this report
	O/local WISH		colo mum co m (lo	rinted everything that
	2200 WPTY-24 TN 433	27	al de second de est mad	ld fit the column format
	2315 WENY-36 NY 490		Aran was all wit-	the F2 DX, all of which
Decer			4 111-	in paragraph form, thus
	r 1416 WPTY-24 TN 433		OFFICE PROPERTY OF THE COS	
	1428 WHMG-42 AL 490		0 000 1000ED 00 10 000	ating a difficult proble
27	0800 KMEG-14 IA 540		OCOO WARRY OF AN IOO	squeeze in, was cut. Thi
~!	0808 KHIN-36 IA 473		acan warm a un han	the last issue that I
				l print old reports. In
	0809 KBIN-32 IA 510			future they must be no
	0810 KBMA-41 MO 458			re than 6 months old,
	1400 KTSB-27 KS 510			hough I am flexible, &
	2100 WFTQ-36 AL 405			't necessarily count the
	2200 WBMG-42 AL 490		1905 KIMN-24 AR 580 mon	ths (or even days). But
28	0110 WHMA-40 AL 482		1910 KLTJ-24 LA 705 thi	nk the August issue is a
	0115 WCFT-33 AL 512			tle late to be reporting
	0900 WEMG-42 AL 490			from last November. I
	0910 WIIQ-41 AL 564	28	0400 WORD 40 WO 545	st noone will have any
	0932 WHMA-40 AL T		0400 8014 0 84 640	uble complying with this
	0800 KHIN-36 IA 473			e., ed.)
	0805 KMEG-14 IA 540		0134 KGMC-34 OK 720	
	0810 KSIN-27 IA 540		0136 KTVV-36 TX 962	
	0811 KTIN-21 IA 435		0144 KRIV-26 TX 910	
29			0240 WFAA-8 TX 812	
27	0200 W67AC-67 WI			
	1900 W67AL-67 OH		Dallas	
	1905 W69AO-69 OH		#690	
	1945 W65//-65 OH		0300 WBRC-6 AL T	
	XLTR WOUC-44	29	0950 KCMC-34 OK T	
	1952 W31AA-31 OH		very strong sig	
	1954 W47AB-47 OH		from lower ON	
	1955 W63AH-63 OH		to MO	
	1957 W17AA-17 OH		DT-TDTPTM	

JOH HIL	lland	4448 68th PL Ke	nosha,	WI 53142 (CDT)	Chris Patrinelis
Tune				r 0515 WLEX-18 KY 360	2829 White Plains Ct.
5 Tr	0525	WJHL-11 TN 520		WKYT-27 KY 360	Springfield, IL 62704
	0528	WBIR-10 TN 510		WTV4-36 KY 360	(CST)
	To Appellar	WTVK-26 TN 510		WLKY-32 KY 330	
	0530	WLEX-18 KY 360		KMOX-4 MO 300	January
		WKYT-27 KY 360		KSDK-5 MO 300	5 Es 1430 WKTV-2 NY
		WHAS-11 KY 330		KPLR-11 MO 300	1445 KMID-2 TX
n n-		WKPT-19 TN 510		0543 KAIT-8 AR 490	6 Tr 1632 KCRG-9 IA 14 1819 WKOW-27 WI
L/ ES		CBHT-3 NS 1200		Jonesboro	
		CKCW-2 NB 1160		#491	
18		WFSB-3 CT 770		0545 WAEO-12 WI 230	1200 WNIT-34 IN 1458 WHME-46 IN
.0		KENW-3 NM 1010 KPRC-2 TX 980		0547 WTVW-7 IN 320	1559 KDIN-11 IA
6 7		WDAF-4 MO 430		0600 KTVI-2 MO 300	1630 KCRG-9 IA
.0 11	رسرت	Kansas City		St. Louis	1638 KRCG-13 MO
		#485		#492	1640 WREX-13 IL
	0.530	KODE-12 MO 520		WKPC-15 KY 330	1730 KYIN-24 IA
	- ),,,	Joplin		WDRB-41 KY 330 0615 WHNT-19 AL 550	2200 WKEF-22 OH
		#486			2204 WRTV-6 IN
	0545	KBMA-41 MO 430		WAFF-48 AL 560 WAAY-1 AL 550	2210 WISH-8 IN
		KCCI-8 IA 310		0700 WPTY-24 TN 530	2212 WTHI-10 IN
7		KFVS-12 MO 370		Memphis	2214 WTHR-13 IN
		KMOX-4 MO 300		# 493	2230 WKYT-27 KY
uly		SERVICE SELECTION		WFIE-14 IN 320	19 0003 WKRC-12 OH
	0525	WJHL-11 TN 520		0725 KTEJ-19 AR 490	0110 WCPO-9 OH
	0600	WZTV-17 TN 450		Jonesboro	February
		WAFF-48 AL 560		# 494	23 Tr 2307 WOC-6 IA
	0610	WHNT-19 AL 550	15	0515 WJHL-11 TN 520	The second secon
8	2250	WPGH-53 PA 430		0520 WPGH-53 PA 430	"Bluipment: 40" tower,
	1	WPTT-22 PA 430		WLKY-32 KY 330	Winegard ant. model N/A
		CICA-19 ON 430		WLEX-18 KW 360	AC 8950 amp, C.M. rotor,
		CBLFT-25 ON 430		WKYY-27 KY 360	19" RCA BAW."
		CFMT-47 ON 430		WTVQ-36 KY 360	(Chris, please send in
	100	CITY-79 ON 430		0530 WTAP-15 WV 400	current reports. Sorry
		WETA-26 DC 630		KFVS-12 MO 370	about the way I stuck
		WBFF-45 MD 630		0540 WTVW-7 IN 320	this in, but I misfigure
9	0515	WTAE-4 PA 430		0550 WYTV-33 OH 380	Don Ruland & wepert. It
		WPGH-53 PA 430		WMUL-33 WV 420	looked as if it would
		WBFF-45 MD 630		0600 WSFJ-52 OH 340	
	0545	WICZ-40 NY 620		Newark	take an entire page, so
		WSKG-46 NY 620		# 495	didn't bother to count i
		WICU-12 PA 400		WKPC-15 KY 330	Obviously I was wrong.
		WJET-24 PA 400		WDRB-41 KY 330	Bob Langridge
	0555	withd 4-) HD JOU		0610 W63AH-63 OH 250	Box 1014
		WWPB-31 MD 560		0625 WHIZ-18 OH 360	Durant, IA 52747
		WHPB-67 MD 630		2245 CICO-18 ON 340	(CST/CDT)
		WBAL-11 MD 630		CBLFT2-40 ON 340	
		Baltimore		2310 CICA-19 ON 430	March 29 Tr 1659 WGCV-24 WI 19
	064 =	#487		CFMT-47 ON 430	Milwaukee
		WKBN-27 OH 380		CITY-79 ON 430	
		WYTV-33 OH 380		CBLFT1-76 ON 400	WISC-3 WI 144
		WSEE-35 PA 400	16	0500 CKCO-13 ON 400	May
		WMGC-34 NY 620		0530 WJET-24 PA 400	29 Tr 1444 Chicago
4 500		CICO-28 ON 400		0530 WKBN-27 OH 380	
1 30		KFVS-12 MO 370	102 20	WAKR-23 OH 340	Rockford
		KMOX-4 MO 300	17 Bs	1200 WEDU-3 FL 1070	South Bend
		KPLR-11 MO 300	"Log	at 495, with 11 new	Peoria
		KDNL-30 MO 300		last report."	Madison Milwaukee
		KETC-9 MO 300			
		St. Louis #488			& Mason City
					Es 1859 <u>CKCK-2</u> SA 888
		WBHW-55 IL 220			Regina
		Springfield			1929 CKBI-5 SA 10
		#489			Prince Albert
		WDRB-41 KY 330			0858 WGBH-2 MA 100
		WKMJ-68 KY 330			Boston
		WCET-48 OH 300			0900 WLBZ-2 ME 112
		WBTI-64 OH 300			Bangor
13		WTVQ-36 KY 360			0947 WMAR-2 MD 748

	m TV				_			September 1980
		WNEW-5 New York	NY 1075	16	Es	1429		27 Tr 0929 KOAM-7 KS 374
une		New TOTK				1930	Flagstaff WCAX-3 VT 890	1030 KGMC-34 OK 564
	2304	Dayton U	18				Burlington	Oklahoma City
	- 20	Gr Rapid	s U's			2200	KCRT-4 TX 1122	1040 KOKH-25 OK 561
		Lexingto				-200	Harlingen	Oklahoma City
		Detroit	141	18		1629	WSTM-3 NY 748	2201 WKMA-35 KY 351
		WYTV-33		-			Symme	Madt commit The
		Youngsto				1700	WPTZ-5 NY 748	MEAD to he you
		WFMJ-21				-	Plattsburgh	Bowling Green
		Youngsto				1828		28 - 0708 EYES 26 ME: 300
		WKBN-27					Bangor	Ombha.
		Youngsto	wn				(MUF 104.1)	KUON-12 WE 344
		WPGH-53	PA 571	19		1259	KPRC-2 TX	Lincoln
		Pittsbur				1459	KPRC-2 TX WWAY-3 NC WCED-2 SC	0721 KHNE-29 NE 433
		WUHQ-41				1512	WCBD-2 SC	Hastings
		Clevelan				1533	XEPM-2 CH 1075	July
5	0050	WVIZ-25					Cd. Juarez	
	0440	Clevelan				1657	KGBT-4 TX	Indianapolis
	0113	WJET-24	PA 504		Tr	1959	KCMO-5 MO 255	
		Erie	DA 561.			0000	Kansas City	Danville
		WSEE-35	PA 304			2033	WDAF-4 MO 255	0051 KMBC-9 MO 255
	0424	Erie	WT 102	20	7704	00.00	Kansas City	0051 KMBC-9 MD 255
	OTET	WITI-6 Milwauke		20	153		WGBH-2 MA	Kansas City 0055 KOLN-10 NE 344
		WGN-9					WCAX-3 VT	Time In 144
		Chicago	ID I'C			1019	WCVB-5 MA 1000	
		WTTW-11	TT. 120			1028	Boston WTVH-5 NY 748	0100 KETV-7 NE 300 Omaha
		Chicago	ID IIV			1020	Syracuse	0135 KPIO-6 SD 514
	0132	WISN-12	WT 193			1132	WBZ-4 MA 1000	Reliance
	01,0	Milwauke				11,	Boston	0148 WTHI-10 IN
	0135	WRTV-6				2210	WLBZ-2 ME	0150 KSFY-13 SD 330
	01))	Indianap					WLBZ-2 ME	Sioux Falls
		WTMJ-4	WI 193	26	Tr		WTVQ-36 KY 420	
		Milwauke	е		-		Lexington	Topeka
	0143	WIS-7				2255	WTHI-10 IN 235	0210 WSAU-7 WI 234
	1000	Chicago					Terre Haute	Wausau
	0157	WMAQ-5	IL 170			2321	KOLR-10 MO 327	WTVW-7 I# 306
		Chicago					Springfield	Evansville
		WREX-13	IL			2330	WPTY-24 TN 451	2106 WAFF-48 AL
	0203	WLUK-11					Memphis	K74CZ-74 MN 150
		Greenbay		27		0000	KYTV-3 MO 327	Winons.
9	0445	MMOX-4	MO 210				Springfield	XLTR KTTC-10
		St. Loui	S			0045	K56AF-56 IA 232	14 0108 WPTT-22 PA 561
	0203	KSDK-5	MO 210				Charinda	Pittsburgh
		St. Loui	S				XLTR KMTV-3	0155 WBRC-6 AL 608
	~ 하게 보고 있으니?	MIVI-2	MO 210				K58AE-58 IA 232	Pittsburgh 0155 WBRC-6 AL 608 Birmingham 21 Rs 2029 KID-3 ID 22 0045 KTWO-2 WY 778 Casper 0058 KTWQ-2 MT 0102 KTWW-6 MT 1100
		KMTO-27	MO				Clarinda	21 Es 2029 KID-3 ID
	0244	WOWT-6	NE 300				XLTR WOWT-6	22 0045 KTWO-2 WY 778
		Omaha					K60AK-60 IA 232	Casper
		WBBM-2	1L 170				Clarinda	0058 KTVQ-2 MT
		KEYC-12	seer Old				Property Street . 1	OTOC WILL O HY TYPO
2	0057	KEYC-12	MN 244				K66AL-66 IA 232	Butte
00 <u> </u>		Mankato	ense				Clarinda	"Equipment: 9" Penncrest Ba
ES	1231	KPRC-2	TX tone				Clarinda XLTR WHO-13 KOZK-21 MO	Finco P-5, Homemade VHF ant
.6	1255	CBFT-2				0929	KOZK-Z1 MO	Winegard AC-4990, Winegard
		Montreal						DA-815 Distribution Amp. Al
nten	nas a	re at 55'	. 73's	and goo	d D	X to	all. Bob."	Vi 21 E-278
om. 1	ue Vm	mah 1163	ON AT	bans C	hio	9.000	IL 60625 (312)-4	163_113311 (CDM)
uly	no VII	men 40	7 N. A.		-		The second secon	
	2315	KIIN-12	TA 203	11	11,		KMOX-4 MO 265	11 Tr 0852 KIIN-12 IA 203
1		WGEM-10				UJEI	WHAS-11 KY 277	KRIN-32 IA 240
- 4	001)	KHQA-7				0.520	WLKY-32 KY 277	
	0032	KDNL-30					KFVS-12 MO 332	0927 KTTC-10 MN 292
	عار بات	KCBJ-17					KDNL-30 MO 265	"Local Grade"
	0035	KRCG-13				1000	WUCM-19 MI	W/locals on 9
		KPLR-11				0811	WXON-20 MI 240 KYIN-24 IA 307	11"
		and deal did				OOLI	ALLN-24 IA JU/	0955 WVUT-22 IN
	0105	KFVS-12	MO 332				WHLA-31 WI 230	WTIU-30 IN

EAST	ERN TV DX		2342 WIKY-32 KY 277 2347 WTVQ-36 KY 314 2358 K33AA-33 IA 258 0018 WOWI-15 AL 494 0021 WHAS-11 KY 277 KPLR-11 MO 265 0023 KFVS-12 MO 332 0043 WXYT-27 KY 314 0145 WAFF-48 AL 503 "Local Grade" 0245 KMOX-4 MO 265 0410 WKEF-22 OH 237 WTVQ-36 KY 314 0440 WHIO-7 OH 237 WKFT-19 TN 468 WIEX-18 KY 314 WKRC-12 OH 250 0442 WXYZ-7 MI 240 WTVG-13 OH 220 WYYT-27 KY 314 0448 WAFF-48 AL 503 0505 MMUL-33 WV 370 HUNTINGTON WDHO-24 OH 220 WYYT-27 KY 314 0448 WAFF-48 AL 503 0505 MWUL-32 WV 370 HUNTINGTON WDHO-24 OH 220 WSY1-25 MI 222 0508 WUAB-43 OH 293 0510 KFVS-12 MO 332 0516 WTVS-56 MI 240 0519 WIKY-32 KY 277 "Local Grade" 0521 WAAY-31 AL 503 0532 WEMG-42 AL 585 0533 KMTG-27 MO 440 Springfield 0538 WHNT-19 AL 503 0549 KAIT-8 AR 455 Jonesboro 0602 WKFC-15 KY 277 0603 WDRB-41 KY 277 "Local Grade" 0619 WGTU-29 MI 231 0624 KYUN-24 IA 307 KTIN-21 IA 335 0651 WFTY-24 TN 492 06659 WFBO-42 OH 330 0715 WEMT-25 IN 267 1445 WCET-48 OH 250 2114 WTVQ-36 KY 314 2118 WHNT-19 AL 503 0715 WEMT-25 IN 267 1445 WCET-48 OH 250 2114 WTVQ-36 KY 314 2218 WHNT-19 AL 503 0715 WEMT-25 IN 267 1445 WCET-48 OH 250 2114 WTVQ-36 KY 314 2218 WHNT-19 AL 503 0715 WEMT-25 IN 267 1445 WCET-48 OH 250 2114 TN 479 "Local Grade" WKPT-19 TN 468 WAKR-23 OH 307 "Local Grade" WKPT-19 TN 468 WAKR-23 OH 307 "Local Grade" WHO-24 OH 280		SEPTEMBER 1980
Robe	rt Kramer cont'			1815 -	
11 T	r 0955 WEHT-25 IN 267	13 T	2342 WLKY-32 KY 277 2347 WTVQ-36 KY 314	15 Tr	0444 WIIC-11 PA 418
	WFIE-14 IN 267		2347 WTVQ-36 KY 314		WTVN-6 OH 289
	1002 WBKO-13 KY 335		2358 K33AA-33 IA 258		0445 WJAN-17 OH 340
	1007 WTVW-7 IN 267	14	0018 WOWL-15 AL 494		WGPR-62 MI 240
	1037 WTVQ-36 KY 314		0021 WHAS-11 KY 277		0446 WIWT-5 OH 250
	Lexington		KPLR-11 MO 265		WLEX-18 KY 314
	1920 WBKO-13 K1 335		0023 KFVS-12 MO 332		WKBN-27 KY 347
	1930 WAPG-15 KI 2//		0043 WKYT-27 KY 314		WKYT-27 KY 314
	1934 WUND-41 KI 2//		0145 WAFF-48 AL 503		0453 WJKW-8 OH 320
	MINA-35 NA 555		"Local Grade"		WHAS-11 KY 277
	WHAS -11 KY 277		0245 KMOX-4 MO 265		0456 CKC03-42 ON 260
	2000 WTHT-10 TN		0410 WKEF-22 OH 237		0458 WXIX-19 KY 255
	2102 WYSO 20 VY 373		WTVQ-36 KY 314		WSFJ-52 OH 303
	2135 WHWC-28 WT 310		0440 WHIO-7 OH 237		BONEIK
	2232 KDNT30 MO 265		WKPT-19 TN 468		0501 WIWL-11 OH 220
	2252 WUST-16 TL 219		WMSA-10 KI 314		TOCAL GIRGE
	2325 WKYT-27 KY 314		Oldis HAAL S MY 310		UMAD 45 UV 260
	2335 WLEX-18 KY 314		WMVC 12 01 220		Do who are burne
	2355 WTVQ-36 KY 314		WIVG-1) UN 220		0.530 WYHD 50 MT 240
	2359 WEHT-25 IN 267		Oluba Warr lia at 503		"Local Grade
	WKPT-19 TN T		0505 WHIT 33 HV 330		WYON-20 MT 240
12	0014 WFTE-14 IN 267		Huntington		"Tocal Grade"
	0017 KRIN-32 KY 277		MUHU-5/1 On 330		0.540 WPM.I-21 OH 342
	0027 WDRB-41 KY 277		WEYT_25 MT 222		WYTV-33 OH 342
	0047 WKEF-22 OH 237		0508 WILAR-43 OU 202		Youngstown
	0103 WHAS-11 KY 277		0510 KEVS-12 MO 332		0542 WWPB-31 MD 544
	"Local Grade"		0514 WXTX-19 VY 255		Hagerstown
	0104 KDIN-11 IA 315		0516 WTVS-56 MT 240		0605 W63AH-63 OH 200
	0108 KIIN-12 IA 202		0519 WIKY-32 KY 222		WBGU-57 OH 200
	0127 WHO-13 IA 315		"local Grade"		W39AA-39 IN 145
	0135 WAAY-31 AL 503		0521 WAAY-31 AT. 503		0611 WKPC-15 KY 277
	0150 WKRC-12 OH 250	8	0532 WBMG-42 AL 585		WPTD-16 OH 237
	0155 WZTV-17 TN 402		0533 KMTC-27 MO 440		0642 WKEF-22 OH 237
	Nashville		Springfield		0652 CICO-59 ON 287
	"Snow Free"		0538 WHNT-19 AL 503		1841 WXOW-19 WI 230
	0233 WHIO-7 OH 237		0549 KAIT-8 AR 455		WHIA-31 WI 230
	0425 WKPT-19 TN 468		Jonesboro		2056 WUCM-19 MI
	WTBS-17 GA 598		0602 WKPC-15 KY 277		WXON-20 MI 240
	0429 WANX-46 GA 598		0603 WDRB-41 KY 277		"Local Grade"
	Atlanta		"Local Grade"		WCMU-14 MI 200
12	19h = WIRW 20 HT 220		0619 WGTU-29 MI 231		2114 WGTE-30 OH 220
13	104) WINN-20 WI 220		0624 KYIN-24 IA 307		2200 WEYI-25 MI 222
	VDTW 22 TA 2h0		KTIN-21 IA 335	16	0421 WTVQ-36 KY 314
	1020 VINT 20 NO 265		0651 WPTY-24 TN 492		0445 WLEX-18 KY 314
	103h WUT 4 34 UT 236		0659 WPBO-42 OH 330	17	0605 WKPC-15 KY 277
	17)4 WILE-JI WI 230		0715 WEHT-25 IN 267	-	WTVQ-36 KY 314
	WYDT 9 WI 230		1445 WCET-48 OH 250	Es	1601 KRIS-6 TX
	1038 WYCB_53 VY 335		2114 WTVQ-36 KY 314		1630 KIII-3 TX
	1930 WDBB_M WY 222		2118 WHNT-19 AL 503		1700 KBTX-3 TX
	1946 WETE-14 TW 267		2230 KDNL-30 MO 265		1737 KAMH-4 TX
	WIST-16 TT. 219	15	0420 WKRC-12 OH 250		1800 CHSJ1-6 NS
	2033 WHWC-28 WT 310		"Local Grade"		BOR ACCORD
	2058 WHTN-36 TA 308		WJHL-11 TN 479		1801 KDFW-4 TX
	2141 WKM.I-68 KY 222		"Local Grade"		1830 WPVI-6 PA
	2148 KDNL-30 MO 265		WKPT-19 XN 468		Philadelphia
	"Local Grade"		WAKR-23 OH 307	40 80-	1900 KMOL-4 TX
	WSIU-8 IL 302		"Local Grade"	10 11	2316 KDNL-30 MO 265
	WVUT-22 IN			19	
	2212 WYUR-48 AL 503		"Iocal Grade"		2043 WXON-20 MI 280
	WCET-48 OH 250		WXYZ-7 MI 240		2325 WKEF-22 OH 237
	WHNT-19 AL 503		"Local Grade"		WPTD-16 OH 237
	2218 WHMG-42 AL 585		WTVQ-36 KY 314		WMUB-14 OH
	Birmingham	3	0431 WDIV-4 MI 240		0xford
	2332 KOZK-21 MO 440		CKCM-13 ON 390 0440 WTRF-7 WV 388		2336 WXIX-19 KY 255
	Springfield		UNIO ETHE-L MA 200		23/43 WDDD-/41 WY 222
	2336 KYFC-50 NO 424		0442 CKGN-29 ON 260		2343 WDRB-41 KY 277
2000	2342 WAAY-31 AL 503		WHIO-7 OH 237 WPGH-53 PA 418		WTVQ-36 KY 314
	KIMA-41 MO 424				2345 WETE-14 TH 262
U			WUAB-43 OH 293		2345 WFIE-14 IN 267

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Spnds N

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EAST	TERN TV DX		SEPTEMBER 1980
	ert Kramer cont'	R State of Albert State of Market State of	Dan Listanit 1900
	r 2358 WLIO-35 OH 200	30 Tr 1828 WKMA-35 KY 320	5 Tr 2304 CBLFT3-48 ON 287
20		WUSI-16 IL 219	2321 CICO-59 ON 287
	0009 WPGH-53 PA 418	WVUT-22 IN	2324 WKBD-50 MI 240
	0013 WSFW-52 OH 303	1837 WKGB-53 KY 335	6 0017 CKCCC3-42 ON 260
	0015 WPCB-40 PA 418	1844 WEHT-25 IN 267	0020 WIKY-32 KY 277
Maria I	0016 WUAB-43 OH 293	1857 WFIE-14 IN 267	0024 WQLN-54 PA 398
	0043 WPTT-22 PA 418	WOWL-15 AL 494	0415 WKRC-12 OH 250
	0105 WAKR-23 OH 307	1932 WBKO-13 KY 335	CKGN-29 ON 260
	0121 WIIC-11 PA 418	1946 WBGU-57 OH 200	0420 WKEF-22 OH 237
	0127 WTOL-11 OH 220	2043 WKEF-22 OH 237	CKCO3-42 ON 260
	0134 WKRC-12 OH 250	31 0237 KPLR-11 MO 265	0425 WDHO-24 OH 220
	0200 WJAN-17 OH 340	WKRC-12 OH 250	"Local Grade"
	0315 WXYZ-7 MI 240	0247 KMOX-4 MO 265	WJET-24 PA 398
	0343 CKGN-29 ON 260	0645 WAFF-48 AL 503	"Local Grade"
	0526 WDIV-4 MI 240	2220 WKP#-15 KY 277	0432 WHIO-7 OH 237
28	0715 KYIN-24 IA 307	2300 WXIX-19 KY 255	0446 WEYI-25 MI 222
	KTIN-21 IA 335	August	0457 WXIX-19 KY 255
	0740 WXOW-19 WI 230	1 Tr 0132 WLKY-32 KY 277	WUAB-43 OH 293
	WHIA-31 WI 230	0447 WCPO-9 OH 250	0508 WSEE-35 PA 398
	KHIN-36 IA 398		0515 KFVS-12 MO 332
	WHWC-28 WI 310	0458 WLWT-5 OH 250	0545 WUTV-29 NY 460
	1902 KDNL-30 MO 265	0710 WGPR-62 MI 240	0720 W39AA-39 IN 145
	2234 KRIN-32 IA 240	WTVS-56 MI 240	WQLN-54 PA 398
	2301 KRCG-13 MO 335	WKED-50 MI 240	WKBD-50 MI 240
00	2305 WHO-13 IA 315	CKC03-42 ON 260	WTVS-56 MI 240
29	0008 WHNT-19 AL 503	WGTU-29 MI 231	₩BGU-57 OM 200
	WAAY-31 AL 503	WDHO-24 ON 220	7 0244 WKEF-22 OH 237
	WAFF-48 AL 503	WXON-20 MI 240	WAKR-23 OH 307
	0014 WLKY-32 KY 277	WUCM-19 MI	8 0542 WIKY-32 KY 277
	0215 KPLR-11 MO 265	2241 WUSI-16 IL 219	WTVQ-36 KY 314
	0423 WTBS-17 GA T	2 0354 WKRC-12 OH 250	0701 KDNL-30 MO 265
	WKRC-12 OH 250	KPLR-11 MO 265	The state of the s
	WKEF-22 OH 237	0402 KMOX-4 MO 265	"That raps up my best TV DX
	0431 WTVQ-36 KY 314	0556 KFVS-12 MD 332	month ever, I can't remember
	WDHO-24 OH 220	0602 WFIE-14 IN 267	seeing WKRC, KFVS, the

DX, much of it local grade, or at least snow free. The best photo has to be the WHMG-42, crystal clear call letters, channel number & location (also my most distant tropo photo at 585 miles). Also good were WAFF-48, WHNT-19, WJHL-11, WIIC-11, WPCB-40 & mucho closer stuff. The DX of 8/5 produced WEHW-55 Springfield, IL for only the second tame ever (to give you an idea of how bad they get out, WICS-20 was well beyond local grade & WEHW was burried in snow & no sound). They must have dug a 400' hole & put a 100' tower in it when WBHW was built.

2225 KDNL-30 MO 265

"Very Rare"

2045 KDNL-30 MO 265

2200 WGTE-30 OH 220

2217 WDHO-24 OH 240

2233 WCMU-14 MI 200

2304 WXON-20 MI 240

WBGU-57 OH 200

WGPR-62 MI 240

WTVG-13 OH 220

2044 WBHW-55 IL

2049 WUCM-19 MI

0529 WAFF-48 AL 503

0536 WHNT-19 AL 503

0310 WKEF-22 OH 237

0420 WDHO-24 OH 220

0538 WXIX-19 KY 255

0542 WFIE-14 IN 267

0548 WEHT-25 IN 267

1828 WKMU-21 KY 373

WAAY-31 AL 503

KFVS-12 MO 332

WLKY-32 KY 277

WKRC-12 OH 250

Detroit U's, the Huntsvilles

reporting some stuff a lot.

but the Cincinnati area.

stations are only reported

when they are in real well.

I finally got all the photos

from July done in mid Aug.

Photo-News is going to get

a whole bunch of real good

Detroit U's & St. Louis

etc. in so well & often.

It may seem like I am

TV DX Report from Glenn Hauser, University Radio WUOT, Knoxville TN 37916 USA (times CST)

High-band sporadic E is the big news here, as the MUF reached at least 186 MHz on July 17. Although I no longer look for every little trace of Es on ch. 2, fairly regular evening checks showed a so-so, or below-average Es season until, on July 17 at 1800 CST (GMT -6, the zone which ought to be observed here) I turned on WSJK-2 to watch Bill Moyers and found a hashy mix of DX signals on ch. 2-5, and soon the FM band proved to be wide open too, up to 107.9. That, of course, means it's time to start monitoring ch. 7 and 8 for signs of Es.

During that first hour, FM stations from North Dakota, Colorado, Wisconsin, Nebraska, Minnesota and Manitoba were logged, as I kept my eyes on the so-far blank ch. 7 and 8 screens

from that direction.

At 1856 in faded a signal on ch. 7 in characteristic Es fashion, with a Maxwell House ad in a non/US/-net show I couldn't identify, but since all three commercial US networks were carrying the Republican convention and there are no US indies on 7, that made Canada a very strong possibility, and CKY-TV Winnipeg the most likely, as Winnipeg FMs were in. This signal faded out after a few seconds, returned around 1900 but not, of course, while an ID was given. Further appearances were at 1907, 1911 and 1914 with a kiddy film involving actors in weird animal costumes. Rather slapstick, again appearing at 1942.

Confirming this was worth a bit of phone expense. I discovered that CKY-TV has a program schedule tape at 204-775-6604, which said the 1830 program was 'Littlest Hobo', and the Thursday Movie, at 1900 was "H. R. Puffinstuff", one with which I am only vaguely familiar. but seems to fit the bill. A few days later I had a chance to call when Real People would answer, and they were glad to check their log for the Maxwell House ad, which was run by CKY-TV at the time I reported -- and not on the CTV net as a whole tho it was inserted at certain other affiliates such as CKCK and CFQC, which I think rules out any other ch. 7 possibi-

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But this wasn't the only highband Es station during this opening. I had an NBC on ch. 7 at 1915, 1940. A minute later, 7 was gone but an NBC was in on ch. 8 and again at 1949. 1953: 8 was at its strongest yet at 1954, staying in to 1959, fading for ID (if any). NBC-7 in again at 1952; at 2008 both 8 and a bit of 7, but then the MUF started to fall down to 98 MHz or so. At 2052 I did have a CBS in and out briefly on ch. 8, but it was probably not Es as the MUF seemed too low at that time. I'll never be certain, but the most likely identities of the NBC stations are KCMT-7 Alexandria Minnesota and WDAZ-8 Devil's Lake, North Dakota or KUMV-8 Williston ND. Anyhow, I have three photos of Reagan off these stations!

During the first sesquihour of this opening it was pointless to try to ID anything on the lowband, and at 1916 I noticed light QRM on local WATE-6, which is just a few miles away in the same direction! By 2029 things had cooled off a bit and I logged KOAA-5 Pueblo CO on rabbit ears which are better capable of pulling DX past WATE-6 than the big antenna. At 2048 KPRY-4 Pierre SD ran its call letters in the upper left of an ID slide. At 2104, a CBS on 4, IDing at 2105 as KXJB, Valley City ND. 2115, KDLH-3 Duluth MN; 2116 KXJB-4 Eyewitness News.

2134 KDLH-3 with Superior ad in news.

Now to TVDX on other dates since my previous report: the first winter Es opening I caught was on Jan. 6 at 1035, unID ch. 2 west, 1050 CBS-3, 1059 KAMR-4 Amarillo TX ID; I was away at 1230-1720 but when I returned, 2, 3, 4 and 5 were hash and the MUF was above 92 MHz. At 1737 on 3, Texas map with news. 1859, KAMR-4 ID again. Feb. 12, 1745 unID-2, 1759 KENW-3 Portales NM ID. No more TVDX logged until May 27, 0705 Today on 2; 0723 K-2 Morning Report (KTWO WY) and 0730 Good Morning America; at 0727 another ch. 2 with a newscaster I thought I had seen on KNXT-2, which would be double-hop, but would KNXT-2 have news at 6:27 am PDT? 0728, Kansas weather map on 2, so KCKT Great Bend. May 29, 2202 Deadwood super on news, so KOTA-3 likely; 2217 Casper weather on 2, so KTWO. 2224, George McGovern ad so KPRY-4 likely; 2237, unID-4 with Tonight Show one-hour delayed. 2302, KNOP North Platte NE video ID along with KTWO Casper WY sudio ID both on ch. 2. May 30, 1750, Es on 2, 3, 4. 1752, News 4 logo at left, items about Chadron etc., so KDUH. 1759, KTVS-3 Sterling CO ID. 1830 PBS-3 from W. likely KENW. 1945, continuous lower-right super 'Tornado Warning 2', NBC, 1947 mention Muskogee County, so KTEW Tulsa OK. 2009 Linda Cavanaugh with NewsCenter 4 update, and ID for KTVY Oklahoma City. 2016, NBC-3 with super 'Tornado Warning Tillman County in Oklahoma', so KFDX-3 Wichita Falls TX. 2029 Portales Telesuction streamer at bottom, so KENW-3. 2030, KFDX-3 with God Bless America ID. 2130, tentatively KMID-2 ID; 2131 CBS-4.

June: June 1, 1130, TVC (Cuba) slide on 3; various QRM on 2 and 4. 1158 ABC-3 from WSW. and KIII likely; 1158 TV Cubana slide on 4; mostly gone at 1220; 1300 film same offset as WRCB. June 15, 1529 KMOL-4 San Antonio TX ID; 1659 KARD-3 Wichita KS ID 1720, movie with Spanish subtitles on 4; ABC on 3; 1800 TVC (Cubs) ID on 3. June 16, 1929 KPRY-4 ID; 1959 KOTA-3 ID Rapid City SD, NBC. 2009, KPRY-4 Pierre SD ID. At 2015 on 3, phone 339-3907 in ad mentioning Sarpy (?) County. 2030, KTVS-3 Sterling CO ID mentioning NE Colorado, etc. 2101 KTVS-3 ID. 2114, Amarillo/Dalhart/Perryton ad, so KAMR-4. 2129 KENW-3 ID with program summary. June 17, 1757 CBC-3 from NE; 1758 Maritime Kitchens ad, 1759 CBHT-3 ID, Special Report; 1800 NBC-2, 20 offset to WSJK; 1813 CBC-4 parallel 3. June 18, was getting Quebec on FM, but on TV, KDLH-3 Duluth MN at 1659 ID. 1730, CJBRT ID slide on 3; I'm pretty sure of that but I suppose it's CJBR-TV Rimouski PQ; 1759 CBWFT-3 Winnipeg Man ID June 19, 1759 on CTV and ATV slides, record offer with NS address; now, would this have to be CJOX Nfld?

(continued on page 30)

New

2200 unid 2

20 Es 1400 KLNE 3 NE 1260

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

Deadline: 5th

Unidentified - unid

A rather light column this month. However, that is not an accurate reflection of the quantity and quality of DX that has occurred.

Pat Dyer sent a note from Texas saying that he isn't able to send a report due to a backlog in his record keeping. He says that June and July were the best months respectively for FM Es since 1977. He also reports being active on 2 meters and mentions good Es there on July 17th.

That came as no surprise to me, as on that date I logged high band Es

Tentative - t

for the first time in 17 years of TV DX'ing. New Mode

Randy Miltier, 1068 Fairview Ave., San Jose, CA 95125 Equipment: 1975 21" Motorola, small Winegard VHF-UHF on rotor at 50'. 20 Es 1430 KWGN 2 CO 950 22 Es 1900 unid 2,3 July 1980 1620 KOA 4 CO 950 25 Es 2000-2200 unids 2,3 12 Es 1445 unid 2 1400-1530 unids 3-6 26 Es 2030 CFAC 2 AB 1075 17 Es 1320 unid 2,3 2015-2100 unid 3,4 22 Es 0630 KMID 2 TX 1225 18 Es 0900 unid 2-6 2 AB 1075 0830 CFAC 1520 KLNE 3 NE 1260 0957 KXLY 4 WA 800

1100 KLNE 3 NE 1260

A lot of unid'ed stations in July which is very frustrating. I'm still shopping for a good antenna, so maybe that will help. Camera problems plagued me in July as twice I had film come back blank! It seems the film take-up gear didn't do its job... However, operator error may fall in here somewhere as I'm using a new camera. I would be interested in hearing from any TV DX'er in central California. I know you're out there, because I saw you listed in the WTFDA roster. Drop a line or give a call at (408) 265-5532. Veri letter in from KDIX-2 ND on a follow up. Good DX.

Fred McCormack, Des Lacs, ND 58733 July 1980 26 Es 0742 KPIX 5 CA 1275 26.Es 1259 KXLY 4 WA 715 1830 KTVK 3 AZ 1165 0745 KTVK 3 AZ 1165 26 Es 0453 KUTV 2 UT 740 0758 KVOA 4 AZ 1195 (MUF 103.5-CH @1852) 0517 KPHO 5 AZ 1165 (MUF 107.9 @ 0800 1859 KENW 3 NM 995 (MUF 102.5-AZ @0530) 1900 KDBC 4 TX 1165 0847 KOBI 5 OR 1115 (MUF 107.1- @0554) (MUF 94.9-TX @ 1928) (MUF 107.3-FL @0920) 0600 KVVU 5 NV 1085 2000 KVBC 3 NV 1085 (MUF 107.3-TX @1022) 0615 KVBC 3 NV 1085 (MUF 102.9-CA @2051) (MUF 100.7-OR @1127) 0638 unid 6 se 1158 KOMO 4 WA 960 2359 KBCI 2 ID 760 0645 WSIL 3 IL 975 1159 KVDO 3 OR 1045 1245 CHEK 6 BC 986 2330 KAID 4 ID 765 0653 WSM 4 TN 1120 27 Es 0927 KMID 2 TX 1115 0656 Las Vegas 3,5 1058 KENW 3 NM 995 (MUF 106.5-WA @1246) (MUF 102.5 @ 0730)

A very nice day of is on the 26th with a very early start and multiple clouds bringing skip from all around the country. Many of the above were running TP's and I am happy to report they all use ID'ed natterns.

CDT Fred AcCornack, 909 12th St. N., Fargo, ND 58102 18 Es (MUF 95.5 @ 0916) 19 Es 2202 unid 2 se July 1980 21 Es 1900 unid 2 se NBC Au 1840 hash on 2,3,5 17 Es 1954 WITV 7 SC 1320 19 Es 0830 KETS 2 AR 890 22 Es 2116 unids 2-4 se (also @ 2049 & 2051) 2201 VSB 2 GA 1115 1029 KMID 2 TX 1060 (AUF 107.9 @ 2159) 2209 WRCB 3 TN 1005 1130 KOAT 2 AZ 1120 13 Es 0357 KENS 5 TA 1220 1159 EVEC 3 TV 1105 0900 KFDX 3 TA 900

Highlight was high band sito. No ID was seen, however it was verified by a phone call to SC. South Carolling FM's were good at the time, so when I saw it was PBS with a film of Africa I is ediately called MITV. The technician confirmed the program and told me they were going to run Six dives of Henry VIII at 2000. This was the programming seen 8 2049 and 2051. I have since acquired program guides for the other ch 7 PBS's and no others had these programs.

Just back from convention in NY. Thanks, Bob, for a good time.

Ralph Strobel, editor 2510 E. McGalliard Rd. Muncie, Indiana 47303 (317) 288-5815 Deadline: the 10th

SEPTEMBER 1980

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

MOST AGREE 1980 BEST DX YEAR YET.

Neil G. Zank - 623 Lyncrest Dr. - Lincoln, NE 68510 Equipment: Pioneer SX-750, Archer 10 element Yagi with rotor at 45 feet.

Excellent conditions experienced here in the last two weeks, so I think a report is in order. The following are all new here.

7/5 tr	7/11 tr	
7/5 tr WIBI 91.1 IL Carlinville	WDZQ 95.1 IL Peoria	
KCMQ 96.7 MO Columbia	7/12 tr	
7/6 tr	WJJY 106.7 MN Brainerd	
WVUB 91.1 IN Vincennes	WBNQ 101.5 IL Bloomingto	n
WSSR 91.9 IL Springfield	KMFL 102.9 MO Marshall	
WDBR 103.7 IL Springfield	7/13 tr	
7/6 Es	WZZC 101.3 IL East Molin	e
WSEN 92.1 NY Baldwinsville	WDDJ 96.9 KY Paducah	
7/11 tr	WAUR 107.9 IL Aurora	
WCBU 89.9 IL Peoria	CJOM 88.7 ON Windsor	
WGLO 95.3 IL Pekin	KMOX 103.3 MO St. Louis	
(Time - CDT)	WBEZ 91.5 IL Chicago	
I made that with this kind of turns '	T doubt would be by T to	

I guess that with this kind of tropo I don't need Es, hi. Indiana and Kentucky are new states for me, bringing total now to 31 states. Some of these stations reported, and all taped for library. QSLs have been slow since 6/1. Sincerely, Neil Zank

> Bob Zent - 1835 Fruit St. - Huntington, IN 46750 Equipment: Heath AR-1515, with Channel Master 4408 at 40 feet.

7/6 tr	7/11 tr	
2235 KRNA 93.9 IA lowa City, r	330 2122 WXXQ 98.5 IL Freeport, r	245
2300 WAAG 94.9 IL Galesburg	250 7/13 tr	
2314 KRVR 106.5 IA Davenport, m	275 2117 KGRC 92.9 MO Hannibal, r	330
7/7 tr	2152 KLUM 88.9 MO Jefferson City,	r 400
0630 WMPR 88.1 SC Sumter,	560 2214 KRES 104.7 MO Moberly	385
(Morning Edition, local wx forecast)	2243 KOPN 89.5 MO Columbia	395
2146 KUMR 88.5 MO Rolla	410 2250 KSCF 97.1 MO Florissant, m	305
7/8 tr	2300 KTJJ 98.5 MO Farmington	350
0038 WVPW 88.9 WV Buckhannon	310 2317 KJEZ 95.5 MO Poplar Bluff,	400
0041 WVPB 91.7 WV Beckley	325 o/WFMS, "Z-95"	
7/10 tr	7/14 tr	
2329 WSIE 88.7 IL Edwardsville, j	290 0650 WEZI 105.9 TN Memphis, (Other	475
2350 WVEM 101.9 IL Springfield	240 stations in that area in: no time	to DX).
2359 WWWK 106.5 IL Granite City	300 2128 WSMC 90.7 TN Collegedale	415
7/11 tr	2200 WXBQ 96.9 TN Bristol, k	350
0004 WIL 92.3 MO St. Louis, k, o/WGTC	305 2230 WKQB 105.9 TN Nashville,	345
0010 KSHE 94.7 MO Crestwood-St. Louis	315 (signal very strong)	
0013 KFUO 99.1 MO Clayton, c	305 2234 WKDF 103.3 TN Nashville, r	345
0030 WGEM 105.1 IL Quincy	325 o/WXTZ, ment. KDF rodeo riding con	test
0619 KBIA 91.3 MO Columbia	39517/15 tr	
0648 KSUI 91.7 IA Iowa City	330 0600 WUTC 88.1 TN Chattanooga	415
2110 KSAY 96.1 IA Clinton, g	260 (relaying WHOT programs in mo	ma)
This has been one of the most interest:	ng periods for DX that I have experien	hand
The Signal Strength of some of these we	re unhalievably strong often tonning	now!
locals in same direction. Guess that s	ows what 100 kilowatts can do against	local
class B's.		, Bob
	1,70	,

NORTHERN FM DX

Andy Bolin - 709 Lincoln Ave. - Charleston, IL 61920

WOW! When you add up all the afternoon Es in May w/all the Es in June & July, you end up w/what I would call the best Es year yet! 6/2 Tr. @0830 KNOE LA (555); WJFR MS (530); WKYV MS (520); KMBQ LA (590) til 1000 fizzle. @1200 Es w/lots of ME til 1240 but MUF only WRUM. 1420 Es w/the new XHAAA 93.1 Reynosa Tam \$ EZ (1060) & lots of Monterrey strong to 1520. 1740 to 2000 Okla. City very strong on tr (590) w/KKNG. KOFM, 96X. 6/3 Es 0900 to 1200 3 solid hours of nothing but WMCU & WTMI both Miami. 6/5 Tr. 0300 xWLRG is "K-92" WXLK 92.3 w/nx/ID/rock Roanoke VA. 6/6 Tr. 0230 KOFM OK (590). 6/15 Tr. KOFM & KKNG 0000 to 0135 rain, both OKC. Es 1630 to 1900 lots of S. FL. 91840 WDNA 88.9 mono/MOR Miami; 1900 WMNF w/mono/SS 88.5 Tampa FL. Quickly moved to Houston/San Antonio/Corpus Christi. @2000 ZEs (double hop) XHRA "Estereo sol-musica con alma" w/auto english rock/spots/complete ID as 89.1 but it was off frequency at 89.7 - Guadalajara Jal (aprox. 1590). 6/16 Es 1130 to 1245 XHAAA & Monterrey to 99.7. 6/17 Tr after 0000 WXBQ VA. 6/18 Es 1000 to 1220 many relogs from FL. @1053 WFIT \$ jazz/P 89.5 Melbourne FL (890); 1100 WRNB \$G 89.3 Boynton Beach FL (1005); 1115 WCIF \$G 106.3 Melbourne FL; 1123 WAVW "the new wave - 105" w/"treasure coast K" 105.5 \$ Vero Beach FL (930). MT & SA up @1215. @1230 KZIN "EZ-96/K-96" w/mono/EZ/MOR 96.3 Shelby MT (1340); 1245 CKUA AT (1320). Up again 1600 to 1700 w/CO Springs very strong and to the top. 1642 KWDE \$K 96.1 Montrose CO (1055). 1700 to 2115 some ME/NH/VT & NY but mostly unIDable CBC's. 1720 CIGM \$ 92.7 Sudbury ON (610); 1800 "CBC Quebec City" 104.7 Quebec PQ (995); 1813 WTMS "More of your favorite mx" \$/EZ 96.1 Presque Isle ME (1130). 6/19 Es 0930 to 1100 NYC. @0948 WLRB \$ 92.7 Rehoboth Beach DE (705). 6/20 Es 0830 to 1330 u/down from MA/ME/ VT/NH & the unID CBC's. @1220 WALZ \$ 95.3 Machias ME (1025). 6/24 Es 1425 to 1450 XHAAA & XHSRO. 7/10 Es 1850 to 2000 S. FL & Keys strong & to the top. @2300 Tr. KLOH MN (520). 7/11 Tr. 0000 to ? most Minneapolis/St. Paul (465). Later @1400 more Tr w/KYNN and other such Omaha stuff all afternoon (440). 7/12 Tr. 0000 Atlanta very strong. Finally @0017 10 watt WSSD \$ 88.1 o/mono WUIC also 88.1 and both are in Chicago. (aprox. 170) 0030 WHPK \$ jazz/rock 88.3 Chicago also 10 watts. 0100 10 watt WRRG w/mono/T40 88.9 River Grove IL (155); 0200 100 watt KALA w/mono jazz 88.5 Davenport IA (200). Later KELO SD (525) strong all day. @2040 KNEN \$ rock 94.7 Norfolk NE (495); 2200 KTRX w/mono/s/off 93.5 Tarkio MO (385); 2215 KNIM \$ rock 99.3 Maryville MO (370); 2230 KZEV \$ P 103.1 Clear Lake IA (370); 2301 KNCY \$/EZ 97.7 Nebraska City NE (415); 2345 KNAZ \$/K Hiawatha KS on 103.9 (390); 2348 KBCM \$/K 95.5 & KWIT 90.3 @2353 both Sioux City IA (475); 2359 KVDB \$ EZ s/off 94.3 Sioux Center IA (485). 7/13 (Tr cont.) 0001 KRNY 98.9 Bruce Elving NE (585); 0010 KUSD \$ s/off 89.7 Vermillion SD (515); 0032 KHAT 106.3 NE (465); 0100 KDLO \$K SD (590) then mostly fizzled. Later @2359 WRLO w/\$/rock/24 hours on 105.3 from 104.9 Antigo WI. 7/14 Tr. 0015 WUIC 10 watts Chicago. 0130 to 0500 WAMU, WPFW & WKYS strong and all DC (590). After 0500 WHPW & WVPN both WV strong. 7/15 Tr. 0005 WVPN & WVWC (430) both WV. 7/16 Es 1145 to 1200 WSOX 94.9 MA (950). I'll pick up in my next report w/the beyond sensational Es of 7/17 that sat top of band for more an 12 hours, and netted 25 newies to slam the totals to 1977. A.B.

Steve Shaffer - 2112 Westpark - Whiting, IN 46394

Equipment: Panasonic RF-2200, Stereo Probe 9, (SP used after 7/6), at 25 feet approx. 7/9 tr 0053 CFCA 105.3 ON Kitchener, CKKW/CFCA ID's, TC, sports scores, rm

0057 CILQ 107.1 ON Toronto, ments of "Home Grown" album week, "Q-107," pr Oll2 CJOM 88.7 ON Windsor, PSA "message for CJOM," rm

0122 CKGL 96.7 ON Kitchener, "Good Country CKGL" jingle, k

0221 WWWW 106.7 MI Detroit, "Crusin thru another 1/2 hr. of commercial free mx," "FM-106" "W-4"

0250 WWWS 107.1 MI Saginaw, "3 WS" ID's, s 0308 WIBA 101.5 WI Madison, 291-6666 given as request line, pr

7/13 tr 0332 KRNQ 102.5 IA Des Moines, "Q-102" ID's, r

7/14 tr 0022 KRES 104.7 MO Moberly, "KRES beautiful country Shannon Show," k 0030 WRLO 105.3 WI Antigo, "105-FM, the new mx station, WRLO," PSA, rm 0111 KGRS 107.3 IA Burlington, KGRS ID, rm

0141 KCMB 105.7 IA Waterloo, United Furniture Sales spot, "KCMB FM-105+" 0147 KLFM 104.1 IA Ames, "Wherever you are tonight we want to be your FM," rm

0158 KQCR 102.9 IA Cedar Rapids, "This is the most mx in the city of five seasons, KQCR, Cedar Rapids," r

0203 KMJM 107.7 MO St. Louis, "KNJM St. Louis, Magic-108," s 0228 KFMH 99.7 IA Muscotine, taking ph. calls for DXers @319-263-0828 collect, pr

0243 WMC 99.7 TN Kemphis, "FM-100 menas music," Scott Jackson, jock, r

0320 KHAK 98.1 IA Cedar Rapids, "K-Hawk," k

NORTHERN FM DX 7/17 Es 1619 KITY 92.9 TX San Antonio, "92-9 FM," 1020, ID, rm 1730 KBAT 93.3 TX Midland, local nx, motor safety PSA, "\$-93 KBAT," k 1735 KYYK 94.1 NM Humble City, station promo, rm 1750 KINT 97.5 TX El Paso, "The concert station, KINT," pr 1813 CHOM 97.7 PQ Montreal, Lake Placid, NY spot, Richard dj, pr 1818 WMYS 98.1 MA New Bedford-Fall River, "This is SE New England's mx station WMYS," into wx, rm 1823 WROR 98.5 MA Boston, "Chance of thunder storms in Boston... WROR," r 1825 WBRE 98.5 PA Wilkes-Barre, "WBRE news time 7:25 in Wilkes-Barre." 1827 CIEL 98.5 PQ Longueuil-St. Lambert, local pop mx, FF ID. 1952 KDBH 97.7 LA Natchitoches, ID, into k 2028 KYND 92.5 TX Pasadena-Houston, "Great place to relax, KYND," m 2038 KELT 94.5 TX Harlingen, local spots, k 2040 KWJS 94.9 TX Arlington, "KWJS, looking @20 mins. before 9," spots, g 2044 KCWM 95.1 TX Victoria, "You're listening to the new sound of FM-95 in the TX crossroads," rm 2055 KMFM 96.1 TX San Antonio, "It's 5 mins. before 9 & you're w/KMFM, SAT, c 2058 WOAI 97.3 TX San Antonio, "The Doobie Bros. here @WOAI-FM," r

2125 KHYS 98.5 TX Port Arthur, "Kiss-98, KHYS," s 7/20 tr 0124 WWKS 106.7 PA Beaver Falls, "\$-107, the mx station, WWKS, Kiss-106," rm 0215 WZZP 106.5 OH Cleveland, "FM-106, WZZP," baseball scores, r 0310 WZEE 104.1 WI Madison, "Z-104" ID's, r, (rare here; gotten only because WLBC decided to go off for the night).

0333 WKCQ 98.1 MI Saginaw, "KCQ," wx, rm All stations new. This season seems to be fair for Es but good for the somewhat off season trops. Never would've expected to get trops from TN & PA. I've just seriously gotten into FM earlier this year when I got the RF-2200. My main interest is TV DX. but will definately be getting involved in FM, other than just the passing interest it was a few years back. If you're wondering how my totals grew so fast, it was partly because of the E's & tropo openings, but also because I finally decided to log all the locals and strong semi-locals, which boosted it up by about 30 or 35. That Stereo Probe sure works great! Totals now: 192 heard, 16 states & 2 provinces. 73's, Steve

John Ebeling - 9209 Vincent Ave. So. - Bloomington, MN 55431 DX from Prosit, MN. All times are Central Standard. New underlined. Heath AJ-15 used. (my Sony ST-5130 was stolen during a cabin break-in; a thousand curses on the thief!) 5-element antenna in attic.

7/3 tr	7/7 tr
0000 WYRQ 92.1 MN Little Falls	1130 WIBA 101.5 WI Madison, p
7/4 tr	1135 WBNQ 101.5 IL Bloomington, r, "FM-101"
0051 WRLO 105.3 WI Antigo, r	7/8 tr
0100 KRNA 93.9 IA Iowa City, r	2010 WZUU 95.7 WI Milwaukee, r
0100 KQDS 94.9 MN Duluth, hard r, ex-KAOH	7/9 tr
7/5 tr	0910 KCJB 97.1 ND Minot
1830 WHSM 101.7 WI Hayward	7/9 Es
7/6 tr	1030 WCRH 90.5 MD Williamsport, promos
0930 WQFM 93.3 WI Milwaukee, r	1041 WPGC 95.5 MD Morningside, r
1257 WBKV 92.5 WI West Bend	1046 WLPL 92.3 MD Baltimore, r
1315 WDUZ 98.5 WI Green Bay, m	1055 WAFL 97.7 DE Milford, k, "Waffle"
7/6 Es	1100 WBJC 91.5 MD Baltimore
1139 WXLK 92.3 VA Roanoke, "K-92"	1110 WDSD 94.7 DE Dover
1145 WEQR 96.9 NC Goldsboro	1200 WMMR 93.3 PA Philadelphia
1148 WRQR 94.3 NC Farmville, r, "Q-94"	1203 WIFI 92.5 PA Philadelphia, "Y-Fi-92"
1200 WVPW 88.9 WV Buckhannon, show tunes	1210 WFLN 95.7 PA Philadelphia, c
1200 WPRV 88.9 SC Rock Hill	phone 215-625-1450
1255 WSMC 90.7 TN Collegedale, c	1215 WDAC 94.5 PA Lancaster, g
1301 WDEF 92.3 TN Chattanooga	7/11 tr
7/7 tr	1600 CKWG 103.1 MB Winnipeg
0900 WNBI 98.3 WI Park Falls, r	7/13 tr
1030 WUEC 89.7 WI Eau Claire, r	1425 WAAG 94.9 IL Galesburg, k
1031 WVCY 107.7 WI Milwaukee, g	1431 WXLP 96.9 IL Moline, r, "97-X"
1045 WAPL 105.7 WI Appleton, r	1432 KTJJ 98.5 MO Farmington, "98+"
1115 WHAD 90.7 WI Delafield	Cardinals BB
1115 WPNE 89.3 WI Green Bay	1439 KNJY 97.7 IA Clinton, ex-KLNQ?
1125 WCOW 97.1 WI Sparta	1445 WVEM 101.9 IL Springfield, ABC sports
1128 WOOD 105.7 MI Grand Rapids, m	1500 WSSR 91.9 IL Springfield

+ Continued +

NORTHERN FM DX DX from Bloomington, MN location. Equipment: Heath AJ-15 & AR-15. Also used Audiovox C-520 car radio during Es opening which was in process during a 30 hour power outage following a severe wind storm. As usual, times are CST with new underlined.

1700   1701   1705   1706   1714	WFLN WHUR WLEV WEXM WKHI WXKX	96.3 DC 96.1 PA 107.5 VA 99.9 MD 96.1 PA	Ocean City Pittsburgh	1725 1730 1745 1757 1800	WPST WMZQ WWDB WFOG WFLS WMVA	98.7 D 96.5 P 92.9 V 93.3 V 96.3 V	J Trenton C Washington A Philadelphia A Norfolk A Fredericksburg, + SCA A Martinsburg C Washington, r
1715	WPGC	95.5 MD	Morningside	1814	WITN	93.3 N	C Washington, r

The above logged in car during power failure. At this point, wife forced me to eat. When we got home, power on and Es still up, so:

1041	WOMB	07.7	SC	Georgetown, r		2008	WAIM	101.1	SC	Anderson, r
TOFO	MOLTY	103 1	SC	Honea Path, Braves	BB	2012	WOLC	102.5	MD	Princess Anne, g
				Woodbridge		2021	WIVK	107.7	TK	Knoxville, k
1971	MARA	100.0	TIME	Clinton, Reds BB						Savannah, m
				Lexington Park						New Orleans, m
	WAGT	105.3	SC	Gafney						Augusta
	-			74 mb- 07 E	anachi.	A. WO.	mle of	mina	day	ng the Es opening

A couple of follow up items. The 91.5 question mark of mine during the I 5/29 turned out to be XHJC 91.5 in Mexicali, B.C. Tape was translated by one of the club members, and sent them a letter. Received verification from them. 20,000 watts nower. "Musicali FM and Formula Melodica" are slogans appearing on letterhead. Also had a confirmation of programming and commercial transcribed and sent to another station. Nice letter stating they were amazed at my reception on 6/18 at 1212 was received from 104.5 KCIV OR The Dalles. I can add them to my log (I didn't list the t reception of them in my June report).

Dave Brunfield - 1505 Kimberly Lane - Muncie, IN 47304 Squipment: 2270 Marantz receiver w/Winegard antenna and rotor at 40 feet.

Equipment: 22	70 Marantz receiver w/w	Tuega	ru an	cenna	Billin	TOLOT BE TO TOO	
6/23 Es		7/7	tr				
1158 KKHJ 93.9 SD Rap	id City 1000	0138	WRI O	105.3	WI	Antigo	380
6/25 tr		0210	WZZC	101.3	II.	East Moline -	280
0958 WHITH 88.5 IL Flo	asmoor 155	7/13	tr				
6/26 tr		2330		98.1	IA,	Cedar Rapids	350
1000 WDLM 89.5 IL Bas	t Moline 280	7/14	tr				
1219 KCCK 88.3 IA Ced	ar Rapids 350	0000	KEMH	99.7	IA	Muscatine	325
1230 KRMA 93-9 TA TOW	a City 350	0056	WOAL	89.3	MN	Morthfield	500
1259 WXXQ 98.5 IL Fre	eport 275					Dubuque	325
2300 KANU 91.5 KS Law	rence 540					Madison	280
2315 WSIE 88.7 IL Edw	ardsville 200					Milwaukse	230
2330 WIBW 97.3 KS Top						Wauwatosa	240
6/27 tr						Chicago	165
0006 KCKN 94.1 KS Kan						Waterloo	400
0119 KOPN 89.5 MO Col						Milwaukee	230
2251 KADI 96.3 MO St.	Louis 310					Charlevoix	330
2303 WSMI 106.1 IL Lit	chfield 250					Moberly	390
2315 KJFF 106.9 MC Jef	fferson City 400	0317	MINE	94.9	WI	Baraboo-Madison	300
2334 WMRY 101.1 IL Eas	st St. Louis 300					Upper Sandusky	110
2338 KMJM 107.7 MO St.	Louis 310	0440		92.1	WI	Sun Prarie	280
6/28 tr	The state of the s	7/17				ARREST BARROLLE	
0000 KLUM 88.9 MO Jei		1926				San Angelo	1100 860
0003 KOSU 91.7 OK Sti	illwater 720	1926				Fort Worth	1000
0023 KTXR 101.5 MO Spr		1927				Ardmore	
0100 KXXY 96.1 OK Ok]	lahoma City 780	1929				Keene	890 860
0145 KWTO 98.7 MO Spr	ringfield 500	1940				Fort Worth	1000
0209 KSYN 92.5 MO Joj	plin 560	1952				Kileen	1140
6/30 tr			KBAT			Midland	860
2329 WTMI 98.9 WI Tot		2025				Denton	1070
2338 WCCO 102.9 NW Min	n enpolis-St. Paul 720	2036		55.1		Luboock	10/0
2349 KHXR 97.5 MH Roc	chester 460	7/20		2000		WAST TO SEE	165
7/1 tr			WUIC	66.1	133	Chicago, 10w	10)
0022 KWWS 101.9 IA Was		7/29		- 1200	400	0.1	415
0047 KTOF 105 IA Ce		0030	Kuit			Cedar Falls	550
0108 KOCH 102.9 IA Get	dnr Capids 350	0155	H = 10	104.	113	Nuskegon	300
0124 WKIR 104.1 TH Jan	ckson 400	0203	Wanter	100.5	1.1	Alton	150
0151 WZOK 97.5 IL Ro	ak fond 250	0209	CBN	00.0	E 0	Ann Arbor, 10w	
0153 WLUM 102.1 WI Mi	lwaukee 230	All:	new.	rotal:	20	1 with 119 Ed. ba	23
							7.5

73's, Roger

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400N 896,8 +

Hunt

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STARINE STARINE

#### Roger Winsor - P. O. Box 536 - Portage, IN 46368 RX: Kenwood KT 6005, hand held TV antenna perched on shelf.

Excellent tropo during stagnant high pressure during heat wave. We just had a good rain, so might make CX get better. Es was in from NE to TX favoring Houston.

7/10 tr 2300 WZEN 100.3 IL Alton, "Z-100" w/rock, wx for St. Louis.

7/11 tr 0705 WRMS 94.3 IL Beardstown, local nx o/WCLL, very strong to St. Louis
0710 KSD 93.7 MO St. Louis, ex-KCFM, w/"KS-94" mis-ID's, only on hr.

w/legal ID. In for 4 days straight!

2245 WUOL 90.5 KY Louisville, ment. CL in promo, big band mx
2320 WCLL 94.3 IL Chillicothe, "Super CLL, \$-94 in the valley rock"

7/12 tr 0800 WSOF 89.9 KY Madisonville, ID, then gospel for two days
0810 WKDQ 99.4 KY Henderson, o/WEFM local w/rock, "KDQ" ID

O815 WKOA 100.3 KY Hopkinsville, "K-100" jingle thru WLOO local, rock 0823 WKTG 93.9 KY Madisonville, "94-KTG" thru WLAK local w/rock 0830 WAKQ 101.1 KY Russellville, "KQ-101" thru WKQX 1&c

0845 WKQB 105.9 TN Nashville, "Rock-106," local ads o/WXFM

7/13 tr 2310 KRNA 95.9 IA lowa City, "Rock of E IA KRNA, YL, jingle easy o/WLAK
2320 KJEZ 95.5 MO Poplar Bluff, nulled WMET, local ad, a real shocker,
my furthest of the opening that nite.

7/14 tr 0000 KLUM 88.9 MO Jefferson City, "Nostalgia-89," soul 0004 KOPN 89.5 MC Columbia, after blues show, o/WNIU

7/15 tr 0015 WAMZ 97.5 KY Louisville, Mut nx, wx, k
0050 WAIF 88.3 OH Cincinnati, shocker 961-8900 # asking for donations
0109 WHPW 89.9 WV Huntington, net nx ending, group s/off ment. each

station by frequency.
0109 WVPN 88.5 WV Charleston, caught during // s/off

O830 WQTY 93.5 IN Linton, m, nice ID, This is WQTY, "cuty" in Linton, IN 7/17 Es 1815 WSHU 91.1 CT Fairfield, whilst mobile to the rx w/rock, ment. calls several times, 1000w

1817 WLVH 93.7 CT Hartford, SS ment. 1845 WPLM 99.1 MA Plymouth, w/ad for Boston Globe, ment. NE 1900 WMCM 93.5 ME Rockland, Boston Sox net ID, ex-WRKD-FM

1902 KLBJ 93.7 TX Austin, mixed w/WLVH ment.

1940 KQUE 102.9 TX Houston, ID, m

tions, 19 by tropo, 12 by Es.

1943 KIKK 95.7 TX Houston, k thru WMET, KIKK jingle 1945 KZFM 95.5 TX Corpus Christi, thru WMET call letters

1948 WTAW 92.1 TX College Station, ment. local ancts.

1956 KODA 99.1 Houston, w/ID, m, local ads

2003 KTSU 90.9 Houston, w/pwr incr. ID, then soul/boogie

2015 KIXV 95.3 Brady, "K-95" only one of several mixed, then opening gone after I got back from visiting friends.

Others heard: WEKU 88.9 heard s/off 3 days in a row. Consistant south duct to St. Louis

every station except KSLH. WIL thru WYCA. KSHE, "the radio station" thru WRCK, KADI thru WBBM w/rock, KEZK 102.5 l&c, KMOX 103.3 for 3 days. WWWK 106.5 w/rock, KMJM 107.7 "Magic 108-FM." WMC 99.7 the only Memphis in.

Just took trip thru WI. WAHC 96.7 Oshkosh is "C-97," WRST 90.3 same was playing album rock 1700 and later, WYUR 95.9 Ripon, "Your radio station," m/auto. Both repeaters on 105.5 in Rhinelander/Wausau are on. WRLO 105.3 now here w/100kw 24 hr. \$ rock, Antigo, WI. ex-104.9. WAPL 105.7 Appleton, WI 100kw much improved signal in move, heard in Madison going home. WOWN 99.3 Shawano has terrible signal, only about 10 miles from XR. WGBW 91.5 Green Bay has pj, alternative radio. Total: 848 in 33 states, 31 new sta-

Fric Feder - 23-35 Bell Rlvd. - Rayside, NV 11360

Eric Fader - 23-35 Bell Blvd. - Bayside, NY 11360
Equipment: GE Superadio w/whip, Concord CR-260 Stereo w/BIC FM-8 Beam Box.

DX in a word: "lousy," with Es into FM only on 6/18, 7/1, 7/16, & 7/17, thus far and today is 7/21. A great coastal trop opening on Sat. 7/19 was welcomed with open antennae. An intro: I'm 21, a member of WTFDA for three years, and as you read this, I'm attending the U. of PA Law School. I picked up the Superadio in January, and recommend it highly. The only problem is keeping the antenna screw tight enough, as it loosens with constant swiveling. The whip beats the hell out of the Beam Box for directionality and gain, and you can't beat the radio's sound for a mono portable. It was a bargain at a discounted \$56. A July 4th weekend trip upstate found WDLC 96.7 - NY inaudible at 30 miles. Between their lack of signal and a mountain next door to the station, it's no wonder I can't hear them at home (60 miles). An even closer unheard is WFMN -103.1 (50 mi.), which was heard upstate so it does exist. In other news, the pirate "NINE-FM" 91.9 or 91.7, also known as "\$tereo-9 FM" (they really do have \$!) is still around, with a great sounding signal, weekend am's.

+ Continued +

NORTHERN F	M DX	Eric Fader co	nt'd:			SEPTEMBER 1980
8/20/79 tr		promise the same of	4/27	GW (	EDT)	WITH SELECT
		Philadelphis, WCBS off	0307	NINE	Q1.Q NV	NY, loops south
		0/12, 9/15, 9/16, 9/22 am's	9,07	MARKE	(Inmaia	Doeksvers south
				+	(oumaica	-Rockaways area), \$
		92.1 (In \$ on 9/22)	5/25	tr		
lisappeare	d for the	winter.	0159	WJRZ	100.1 NJ	Manahawkin (QTH chg)
/10 tr	127		5/29	tr		
0043 WBRU	95.5 RI	Providence, WPLJ off	2100	WKXW	101.5 NJ	Trenton, ex-WBJH,
0048 WPGC	95.5 MD	Morningside			ex-WTRT.	"Kicks-101%"
9/11 tr			2212	WOLC		Princess Anne
0104 WPGC	95.5 MD	w/WPLJ off again.	2230	WKHI	99-1 MD	Ocean City
Note: NY'	ers WPLJ-	95.5 & WCBS-101.1 were	2248	WSNJ	107.7 NJ	Bridgeton rare
noth off e	very am	9/8 - 9/13!! and WYNY-97.1	2300	WAGA	103 1 MD	Graconville
och off O/	71 - 0/17	, all for antenna	5/30	W. W. State	TOYAL MD	Grasonville
		, all lot ancenna			Do 1 110	* 10 Th " 15 C SEE 100
maintenanc		T to 0300 m/off				Annapolis
	90.9 PA	Lancaster, to 0200 s/off				
9/12 tr						Danbury, ex-WLAD
0108 WLAN	96.9 PA	Lancaster, to 0202 s/off				Allentown, "FM-100+"
2255 WDSD	94.7 DE	Dover	0210	MBJC.	91.5 MD	Baltimore, opera
		Buffalo, 0058 9/13 s/off	6/14	tr		
		Annapolis, thru local			: WAQY 10	2.1, Bostons 89.7, 94.5
9/13 tr					91.8 NY	
OTOS WARY	106 E NV	Buffalo	6/15		2-10 111	
					01 7 117	NVC tame of 6/14 short
					STOL MI	NYC, tape of 6/14 show
OTS ABLA	102.5 PA	Reading, o/unID (WBEN?)	0/10	LB	01 0 0	A CARLON DISCOURT
JI37 WASH	97.1 DC	Washington, WYNY off	1018	KQAA	94.9 SD	Aberdeen
OLYN MECH	97 3 NY	Utica	1824	KSTP	94.5 MN	St. Paul
0146 CJQR	97.7 ON	St. Catharines	1840	KDSU	91.9 ND	Fargo
0205 WGRQ	96.9 NY	Buffalo, o/WLAN Albany	1856	WSCD	92.9 MN	Duluth
0210 WROW	95.5 NY	Albany				Bonavista, "OZ-FM-net
DAGW 41SO	94.5 PA	Lancaster, local-like				
0230 WGBH				-		"Q-95," "The Q"
		DOSCOII	1028	VAVE		Grand Rapids
0240 <u>CJBC</u> -	TE E ON	Belleville, tent, FF	1920	CHIC	Oh Z MD	Winning UO-041
			1900	CHIC	94.5 ME	winnipeg, 4-51
		St. Catharines, trace?			plummeted	to below ch. 6.
		Scranton, rare path	6/19			
0323 WWDC	101.1 DC	Washington, o/WDVR			101.7 NJ	
0338 WHP	97.3 PA	Harrisburg	2207	WESR	103.3 VA	Tasley? or Onancock?
0407 WPGC	95.5 MD	Morningside (Buffalo &	2310	WLKW	101.5 RI	Providence
		by 0330)		WHJY	94.1 RI	WPLM - 99.1 MA
		Takoma Park, c	6/26			
		Worcester			edibly st	rong Boston trops.
					carbij o	
	TOE 9 ME	Portland	7/1		00 7 11	Manustown
9/14 tr	-1 -	The state of the s			90.5 NI	Marystown
0030 WCOZ	94.5 MA	Boston	7/16			THE RESERVE AND PERSONS ASSESSED.
9/25 tr			1820	CJOZ	92.1 NI	Bonavista
2258 WAMC	90.3 NY	Albany, thru local	1825	CHOZ	93.9 NI	St. John's, // 92.1
			1840	CJOZ	92.1 pl	layed recorded ID'S of
2312 WOON	105-5 Cm	Groton, ex-WSUB Orleans				Stephenville (ex-CFOQ?
2320 NT.OM	104-7 MA	Orleans				6.3 Fortune (ex-Marys
0/26 +-	LOTO PIA	V. Louis				stations on the "OZ-FM
9/20 tr	03	Marca.				
			m /n -		OLK MITG	's only rock."
The second secon	89.3 DC	Washington	7/17			The second of th
10/19 tr						A Ft. Dodge
1930 WAQY	102.1 MA	Springfield				A Sioux Center
10/21 tr		a Santa tan mali a or mit	2059	KRSW		Worthington-Marshall
2142 WAGA	103.1 MD	Grasonville, "Super-Q-10]	3"2100	KSUT		
11/6 GW			2109	Had	to leave	KDCR - 91.3 still in.
	101.5 N.T	Trenton, ex-WBJH, now WK				earlier: 90.1 probably
		Tronton, GA-mbon, now with				+.9 probably Des Moines
1/26/80 G		Harman and Control	n /a c		, IN & 9.	broompril non Hormon
	98.3 NY	Hempstead, ex-WIOK	7/19			and the same beauty to be and
2/9 GW			1525	Home	early f	rom foggy beach, knew
1300 WWUU	107.1 NJ	Long Branch, ex-WRLB	coas	stal t	ropo wou	ld be up and it was!
3/17 tr	PART TO	20000-220-2	1530	) WSBI	95.3 N	Y Southampton
0120 WYVE	107.0 10	Boston, "Kiss-108"	1532	WSO	94.9 M	A West Yarmouth
	TOTAS MA	200001	1570	WORK	99.9 M	A Barnstable, thru loca
4/2 tr		7 7 100 1 106 1 11	エノノン	HOTE	101 0 W	A Falmouth, ORMing loca
	1 90.9, 9	3.3, 102.1, 106.1, etc	1545	WGII	101.9 M	A Falmouth, QRMing loca
				WPI	, but no	t quite audible.
4/4 tr						
4/4 tr 0220 WOKQ	97.5 NH	Dover	1553	5 WKZI	E 104.7 M	A Orleans, ex-WLOM KZ-1 A New Bedford, "\$-98"

Fred McCorm	ICK -	Des .	acs,	ND 50	(22	IND motor		
Equipment: Heath AR-  6/14 Es 1143 KFIM 92.3 TX El Paso 1153 KZZP 104.7 AZ Mesa 1158 KNPR 89.5 NV Las Vegas, Dolby 1205 KXO 107.5 CA El Centro, NBC 1205 KXO 107.5 CA El Centro, NBC 1205 KYOR 100.3 CA Blythe 1208 XHMMP 92.3 BCN Mexicali 1210 XHJC 91.5 BCN Mexicali 1212 KXYE 99.5 CA Mountain Pass, I 1227 KDES 104.7 CA Palm Springs, el 1230 KZZZ 93.5 UT St. George, el 1232 KQIN 95.7 CA Twentynine Palms 1238 KWWE 107.9 CA San Diego, r."FM-106' 1240 KRXV 98.1 CA Yermo (// KXVY) 1244 KJQY 105.7 CA San Diego, "K-Joy" 1246 KTOT 101.7 CA Big Bear Lake 1247 KYXY 96.5 CA San Diego, r 1256 KIFM 98.1 CA San Diego, r 1256 KIFM 98.1 CA San Diego, r 1256 KIFM 98.1 CA San Diego, r 1313 KBON 103.9 CA Lake Arrowhead, el 1347 KDKB 93.3 AZ Mesa, r 1334 KUDO 93.1 NV Las Vegas, r\$ 1350 KZSØAN (KDKB 93.3) 103.9 AZ Prescott 1348 KSUB 92.5 UT Cedar City 1426 KBRE 94.9 UT Cedar City, A, r 1504 KCEP 88.1 NV Las Vegas, d 1528 KZ65A- (KBRE 94.9) 100.9 UT St. George or Kanab 1537 KOTE 106.3 CA Lancaster 6/15 MS 1544 KRDO 95.1 CO Colorado Springs 6/20 Es	1300,	WT Dist	gara (	UN-000,	29 1	DR POLOF		
6/14 Es		6/2:1	Es	00 =			1200	
1143 KFIM 92.3 TX El Paso	1170	1100	KTEP	88.5	TX	El Paso	1170	
1153 KZZP 104.7 AZ Mesa	1155	1115	KDEM	94.3	NM	Deming, el .	1150	
1158 KNPR 89.5 NV Las Vegas, Dolby	1080	1203	KUAT	t 90.5	AZ	Tucson, c		
1205 KXO 107.5 CA El Centro, NBC	1290	1212	KTAZ	t100.9	AZ	Sierra Vista, loc.	ad	
1205 KYOR 100.3 CA Blythe	1215	1208	XEHN	105.1		Son Nogales		
1208 XHMMP 92.3 BCN Mexicali	1295	6/21	MS			Baselin Hardway in Court	000	
1210 XHJC 91.5 BCN Mexicali	1295	1715	WCZY	95.5	MI	Detroit	905	
1222 KXVR 99.5 CA Mountain Pass, I	1135	6/21	tr				700	
1227 KDES 104.7 CA Palm Springs, el	1260	1717	KSDZ	95.5	NE	Gordon	380	h
1230 KZZZ 92.7 AZ Kingman, "Triple-Z"	1105	6/27	ES			1 - 6 X 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1
1230 KZEZ 93.5 UT St. George, el	980	1145	KLBK	94.5	TX	Lubbock, r	1015	1
1232 KQYN 95.7 CA Twentynine Palms	1230	1146	KBIM	94.9	NM	Roswell, el	1040	4
1238 KWVE 107.9 CA San Clemente	1320	6/27	tr			Market Service Control		Į,
1233 KPRI 106.5 CA San Diego, r, "FM-106"	1345	1202	KOXI	101.1	NE	Columbus, el	515	í
1240 KRXV 98.1 CA Yermo (// KXVR)	1210	1208	KYYS	102.1	MO	Kansas City, r	720	
1244 KJQY 103.7 CA San Diego, "K-Joy"	1345	1214	KEXL	106.7	NE	Norfolk	475	
1246 KTOT 101.7 CA Big Bear Lake	1250	7/5	tr		-	OTHER SECTION		
1247 KYXY 96.5 CA San Diego, r	1345	0704	KLSS	106,1	IA	Mason City,	535	
1256 KIFM 98.1 CA San Diego	1345	100		MALE.	4	"KS-106"		
1301 KBIG 104.3 CA Los Angeles	1305	072:0	KIWA	105.5	IA	Sheldon, r	445	
1312 KOCM 103.1 CA Newport Beach	1320	0750	CBWA	101.3	MB	Manigotagan, e, CBC	305	
1313 KBON 103.9 CA Lake Arrowhead, el	1260	0907	KFMC	106.5	MN	Fairmont, r	465	
1347 KDKB 93.3 AZ Mesa, r	1155	0956	KIOW	102.3	IA	Forest City, k	515	
1334 KUDO 93.1 NV Las Vegas, r\$	1080	0958	KQCR	102.9	IA	Cedar Rapids, r	650	
1350 K28ØAN (KDKB 93.3)		1005	KILR	95.9	IA	Estherville	465	
103.9 AZ Prescott	1100	1022	KMIT	105.9	SD	Mitchell	355	
1354 K211AA (KMCR 91.5)		7/6	Es					
90.1 AZ Prescott	1100	00350	CFLY	98.3	ON	Kingston, r	1225	
1418 KSUB 92.5 UT Cedar City	930	0053	CKQM	105.1	ON	Peterborough :	1140	
1426 KBRE 94.9 UT Cedar City, A, r	930	0056	CFMP	101.5	ON	Peterborough	1140	
1504 KCEP 88.1 NV Las Vegas, d	1080	0058	CKQT	94.9	ON	Oshawa, r	1125	
1528 K265A- (KBRE 94.9)		0100	CHAY	93.1	ON	Barrie	1075	
100.9 UT St. George or Kanab		0102	CKSO	92.7	ON	Sudbury, r	965	
1537 KOTE 106.3 CA Lancaster	1265	0114	WMJO	92.5	NY	Rochester.	1200	
6/15 MS						"Magic-92"		
6/15 MS 1544 KRDO 95.1 CO Colorado Springs 6/20 Es	670	1207	unID	CBC r	ela	vs on 91.5 and 95.3		
6/20 Es			from	BC. A	t.	NWT area		
1700 CBJ-3 93.1 PO Dolbeau, French	1330	1349	WXLK	92.3	VA	Roanoke. "K-92"	1325	
6/21 tr		1358	WYYD	96.1	NC	Raleigh, el	1450	
0927 KORN 107.3 SD Mitchell, r. "0-107"	355	1400	WVWR	89.1	VA	Roanoke	1325	
6/21 Ea		1449	WSLO	99.1	VA	Roanoke, "0-99"	1325	
1028 KUHF 88-7 TX Houston, "FM-88"	1320	1458	WBES	96.1	WV	Charleston	1205	
1059 KSUC 88-3 TX Keene	1115	1514	WSAT	94.1	OH	Cincinnati r	1055	14
1100 KAMH 90.9 TY College Station	1250	-/-	WOLL	(New	Hn	derlined)	10))	1
6/20 Es 1700 CBJ-3 93.1 PQ Dolbeau, French 6/21 tr 0927 KQRM 107.3 SD Mitchell, r, "Q-107" 6/21 Es 1028 KUHF 88.7 TX Houston, "FM-88" 1059 KSUC 88.3 TX Keene 1100 KAMU 90.9 TX College Station	44.70	1		CHON	011	der i i i i i i i i i i i i i i i i i i i		z
DX from 909 12	th St	. N.	- Far	go, ND	58	102		ě
1100 KAMU 90.9 TX College Station  DX from 909 12  Equipment: Heath AJ-160	0, W1	negar	d CH-	7078,	All	iance rotor		1
6/18 Es 1916 WBBQ 104.3 GA Augusta, r 1919 WWDM 101.3 SC Sumter, "Big DM" 1923 WBSL 97.3 NC Wilmington, r 1924 WQDR 94.7 NC Raleigh, r 1926 WEAS 93.1 GA Savannah 1928 WAAV 102.7 NC Wilmington, el 1936 WSGF 95.5 GA Savannah, r 1939 WIVY 102.9 FL Jacksonville 2001 WGCO 102.3 GA Buford 2007 WEQR 96.9 NC Goldsboro 2015 WNCG 104.1 GA La Grange, "CG-104" 2020 WFDR 93.3 GA Manchester, "Big-93"		16/18	Es					
1916 WBBQ 104.3 GA Augusta, r	1210	2107	WFPG	96.9	NJ	Atlantic City, el	1235	
1919 WWDM 101.3 SC Sumter, "Big DM"	1240	2110	WASH	97.1	DC	Washington r	1140	
1923 WHSL 97.3 NC Wilmington, r	1315	2114	WCEH	103.9	GA	Hawkinsville	1230	
1924 WODE 94.7 NC Raleigh, r	1210	21.25	WKZO	101.7	SC	Myrtle Beach	1305	
1926 WEAS 93.1 GA Savannah	1315	21.32	VCGO	107-3	GA	Columbus	1175	
1928 WAAV 102.7 NC Wilmington, el	1315	21.57	WRHM	90.3	AT.	Rirmingham	1060	
1936 WSGF 95.5 GA Savannah r	1315	21.50	WKGC	90.7	NT.	Panama City	1205	
1030 WTVV 102 0 FT Jacksonwille	1400	2300	WEGH	91.5	FL	Tallahassaa	1715	
2001 VGCO 102 3 GA Buford	1105	6/20	Er (	Mobile	EE	mi F of Innector	NID /	
2007 VEOD OF O NO Goldehoro	1255	11 71	TA CD	oh 1	DA	Dhiladalahia	, MD)	
2015 WOO 106 1 GA 1 - Garage Hog 1068	1140	2/22	Fe	94.1	FA	rantaderphia		
2020 VEDD OF 7 CA Manager, "CG-104"	1140	14/1/	LE	106 -	NC	Bud dont	1705	
2020 WIDE 99.9 GA MANCHESTER, "BIg-95"	1100	1331	MEST	100.5	NC	Bridgeton	1303	
2010 WAZZ 101.9 NC New Bern	1305	1953	MDMG	107.5	SC	st. George, Q-107	15/0	
2002 WSFL 100.5 NC Bridgeton	1305	CHUF	ch.	/ 0195	4 t	charleston, SC)		
2101 WGAT 99.5 DC Washington	1140	1957	WANS	107.3	SC	Anderson	1125	
2015 WWCG 104.1 GA La Grange, "CG-104" 2020 WFDR 93.3 GA Manchester, "Big-93" 2040 WAZZ 101.9 NC New Bern 2052 WSFL 106.5 NC Bridgeton 2101 WGAY 99.5 DC Washington 2104 WNMB 105.5 SC North Myrtle Beach	1305	12027	WDEN	105.3	GA	Macon	1190	
	Bank							

+ Continued +

Fred McCormack - Des Lacs, ND 58733

NORTHERN FM DX	Fred McCormack cont'd:	SEPTEMBER 1980
7/17 Es	7/17 Es	
2027 WBBQ 104.3 GA Augusta 2030 WNCT 107.7 NC Greenville	1210 2150 WGUS 102.3 GA 1265 7/18 Es	Augusta 1210
2035 WKIT 102.5 NC Hendersonville 2040 WKEZ 95.7 VA Norfolk, el	1090 0919 KBIL 92.9 TX 1255 7/22 Es	San Angelo, el -1080
2042 WKTM 102.5 SC Charleston	1315 2212 unID 89.5 TN-	GA area
Some nice Es noted from Des Lacs ested in hearing from anyone who haped ID's from this station, and call, and the southern Arizona are from Nogales is not listed in the Ondas FM, so I would like further tropo on 6/27 was brief and very as good a tropo logging as I have	has also heard XEHN-105.1, as I I believe I am correct in my is sa was being received at the ti latest FM Atlas and is listed confirmation that the station surprising. I am glad I stumble	list on 6/21. I have nterpretation of the me. This frequency as a cancelled CP in is on. Kansas City
D-1-1 041-1	2510 B W B 111 - 1 B1 W	THE LORGE

## Ralph Strobel - 2510 E. McGalliard Rd. - Muncie, IN 47303 Equipment: Heath AJ-1510, Winegard antenna w/rotor at 60 ft.

			and o	arpment. Meden No-171	·, "	ne Car		,			
6/15		200	Aut go			6/29			10000	Account to the second	1 CAD
2000				Fort Worth, SS, L\$		0107				Ann Arbor, 10w, c\$	
2003				Keene				88.3	MI	Southfield, 125w	190
2005				Fort Worth		6/30		OBSESSORY OF THE PARTY OF THE P			
2015		91.7	TX	Dallas	850					Minneapolis	520
6/18 1					- (6)		KNXR	97.5	MN	Rochester	460
2030	KIOU	96.5	TX	Corpus Christi	1170	7/1	+ 10	p. 60000			
2123 1	KEXX	93.9	TX	Corpus Christi	1170	0000	WTMB	98.9	WI	Tomah	375
2130 1	KAUM	96.5	TX	Houston	850	0023	KNWS	101.9	IA	Tomah Waterloo Cedar Rapids	400
2213	KTTL	93.9	KS	Dodge City	850	0030	KQCR	102.9	IA	Cedar Rapids	350
6/19 1											500
1415		93.9	AZ	Flagstaff	1525	0200	WKIR	104.1	TN		400
				st heard 6/20/78)	ES	0330	WQEZ	96.5	AL	Birmingham	500
1800 H				Rapid City	1000	0447				Decatur-Huntsville	
6/20						7/4	tr				
0935		88.1	IL	Wheaton, 250wD, s/on	180	0441	WLEW	92.1	MI	Bad Axe	260
6/25				and the same of th		1900	WHSB	107.7	MI	Alpena, e/WDAO	345
0900		88.1	IL	La Grange, 10w, r mo	no165		tr	-		A PARTY OF THE PAR	
6/26			-	and armed a			WNMU	90.1	MI	Marquette	460
2300		91.5	KS	Lawrence	540					Antigo	380
2310				Carmi		0300				Atlanta	480
2330				Topeka						Washington	460
6/27	t m	21-2	Bio.	Topena	200					Atlanta	480
0006	KCKN	04.1	KS	Kansas City Kansas City Kansas City Columbia Kansas City Little Rock Springfield Springfield Joplin	525					Washington	460
0010	KAAR	102.1	MO	Vancas City	520	0412	WEEW	92.1		Traverse City	310
0012	VREO	104.3	MO	Kansas City	520					Logan, o/WKRQ	260
01.20	MODN	80.5	MO	Calumbia	400					What's this?	222
0170	MOTH	80 3	MO	COLUMBIA City	520	7/8		, ALT	**	Must. s cure.	
0170	AGUR AZ	09.7	MO	Kansas City	565		TOTAL	303 5	70.6	Pittsburgh, s/off	300
2070	ALAG	90.7	AR	Little Rock	500						300
2000	KWIU	9/-2	MO	Springfield	500	2300					195
2042	KTXR	101.5	MO	Springfield	500	2325	_	00.7	On	Berea, s/off	197
		92.0	MU	Joplin	560	7/9	tr			Pa11a	270
2100		88.9	MO	Jefferson City	400			106.7	PA	Beaver Falls	270
2300 1		92.7	MO	Eldon	420	7/10			-		
6/28		41212	2	A FUEL HITTING MARCON TO			WFYN				1140
0005				Stillwater, s/off		2032		89.7	FL	Miami	1090
				Oklahoma City	780	7/10	tr				-10
0033				Point Lookout, s/off				105.1	IL	Quincy	340
0100				Tulsa		7/11					1000
0125				Stillwater		2258		99.3	KY	Harrodsburg, s/off	200
0240	KWTV			Oklahoma City, s/off		2359		93.3	KY	Paducah	300
0300 1	KWTO				500	7/12	tr	1000		Chickenson Services	200
0425	WDEF	92.3	TN	Springfield Chattanooga		0305	KALA			The state of the s	300
6/28						0400	WSPA		SC	Spartanburg	450
1444	KEXX		TX	Corpus Christi	1170	7/13	tr				4
1445			TX		1170			93.9	WI	Sturgeon Bay	340
1448		99.9	TX	Robstown		2044				Dubuque	325
10000	1000	****	1					1			100

NORTHERN FM DX	ME co	nt d:				SEPTEMBER 1	1980
7/13 tr		7/17	Es				
2200 WLVE 94.9 WI Baraboo-Madison				94.9	TX	Arlington	860
2333 KHAK 98.1 IA Cedar Rapids		1537	KFMN	107.9	TX	Abilene	1025
7/14 tr		1542	KYKK	94.1	NM	Humble City	1170
0005 KFMH 99.7 IA Muscatine	325		KAFM	92.5	TX	Dallas '	850
0237 WMT 96.5 IA Cedar Rapids		1600		88.1	TX	Lubbock	1070
0330 WAPL 105.7 WI Appleton, o/WTLC	310	1603	KWKQ	107.1	TX	Graham	940
OTLO HEST JOE O WN Momphie	465	11606	KOTP	96.9	TX	Odessa	1150
0430 WKHO 105.9 MT Charlevoix	330	1617	KTEZ	101.1	TX	Lubbock	1070
0510 WGGL 91.1 MI Houghton	510	11630	KORQ	100.7	TX	Abilene	1025
0700 WDJQ 92.5 OH Alliance, o/WMHE	220	1634	KOCV	91.3	TX	Odessa	1150
2000 WKDF 103.3 TN Nashville, o/WXTZ	300	1635	KSJT	97.5	TX	San Angelo	1100
7/15 tr	TY BEST	1644	KBIL	92.9	TX	San Angelo	1100
0000 WMOT 89.5 TN Murfreesboro, s/of	300	1705	KENW	89.5	MM	Portales	1110
0030 WEBQ 99.9 IL Harrisburg, o/WTHI		1706	KATX	97.3	TX	Plainview	1040
0100 KHKE 89.5 IA Cedar Falls, s/off			KACV	89.9	TX	Amarillo	1010
(last heard in 1972 on 88.	1)	1724	KSEL	93.7	TX	Lubbock	1070
Oll2 WVPN 88.5 WV Charleston, s/off	240	1728	KTNM	92.7	NM	Tucumcari	1110
0130 WLSU 88.9 WI La Crosse, s/off	390	1730	KLYT	88.3	NM	Albuquerque	1250
0145 WRAS 88.5 GA Atlanta	480	1734	KKJY	100.3	NM	Albuquerque	1250
0200 WDEN 88 1 TN Nashville, s/off	300	2000	KWLW	93.9	TX	San Angelo	1100
claims 700w		2107	KRWG	90.7	NM	San Angelo Las Cruces	1360
claims 700w 0300 KUNI 90.9 IA Cedar Falls 0330 WAMU 88.5 DC Washington 0330 WFFW 89.3 DC Washington	415	2111	KTEP	88.5	TX	El Paso	1360
0330 WAMII 88.5 DC Washington	460	7/20	tr				
0330 WPFW 89.3 DC Washington	460	0025	WHPK	88.3	IL	Chicago, 10w	165
		7/29	tr	310			
7/17 Es 1405 WFUZ 93.7 FL Ocala 1410 KUHF 88.7 TX Houston		0030	KRES	104.7	MO	Moberly	390
1405 WFUZ 93.7 FL Ocala	830	10100	WRAS	88.5	GA	Atlanta	480
1410 KUHF 88.7 TX Houston	850	0215	WCBN	88.3	MI	Ann Arbor, 10w, r\$	150
	850	0500	WUIC	88.1	IL	Chicago, 10w	165
1422 KRLY 93.7 TX Houston	850	0503	WHPK	88.3	IL	Chicago, 10w	165
1418 KTSU 90.9 TX Houston 1422 KRLY 93.7 TX Houston 1438 KILT 100.3 TX Houston	850	7/30	tr				
1447 KEXX 93.9 TX Corpus Christi	1170	0800	WDGC	88.3	IL	Downers Grove, 250w	170
1459 KSUC 88.3 TX Keene	890	2300	WRXX	95.3	IL	Centralia	265
1500 KNTU 88.5 TX Denton	860	7/31	tr				
1505 KZZY 100.3 TX San Antonio	1110	0000	WKDZ	106.3	KY	Cadiz, s/off	280
1513 KMFA 89.5 TX Austin	1040	0004	WZRD	88.3	IL	Chicago, 10w	165
agar want of g my Ametic	1040		-			o/lOw WHPK	
1523 KETR 88.9 TX Commerce	780	0012	WLUW	88.7	IL	Chicago, 10w	165
1523 <u>KETR</u> 88.9 TX Commerce 1524 <u>KLBK</u> 94.5 TX Lubbock	1070	)				5/011	
1529 KESS 95.9 TX FORT WORTH	860	0158	WUSC	89.1	OH	Springfield, 10w	90
1530 KCBI 89.3 TX Dallas	850	)				pr, now \$	
1571 VUMM OT 7 TY Dallas	850	10200	MLYX	89.3	TN	Memphis	465
All I can say regarding the summer	of 19	80 is	: inc	redibl	e!	I have now heard an	nd

All I can say regarding the summer of 1980 is: incredible! I have now heard and taped my 34th 10 watt station via tropo. All of these stations are located in the educational band and none are FM translator stations. From this location, a translator station has never been heard. As yet, a 10 watt station has never been heard by Es or MS. These 10 watters and number of them are from the following states: OH - 13 IN - 12 IL - 7 and MI - 2.

Other weak signals heard were: 88.1 WETN Wheaton, IL with 250 watts Directional antenna. I suspect WETN's signal is mostly sent to the north to protect Chicago's 10 watters. WETN's signal was very weak here. KALA 88.5 at St. Andrews College in Davenport, IA has 100 watts with only a 48 foot tower. WRFN 88.1 Nashville, TN claims 700 watts with a tower height of only 6 feet. Surprising how well these were heard.

DX got a late start here, but once it started it hasn't quit. Stations from the St. Louis area at 310 miles have been full strength competing with the locals nearly every day. The Iowa City, Cedar Rapids and quad city stations were full strength like never heard before. KRNA 93.9 in Iowa City had Chicago's WLAK wiped out for days. These openings have been as good as skip. So many stations were blasting in that it was impossible to get ID's on everything.

I didn't have much luck with skip. Es was either missed or I found it too late. July 17th was the best day heard, but I got out of bed too late and missed a great deal. I didn't realize it, but stations were also in from the northeast. When I turned my antenna around, I heard central NY mentioned on 88.3 which must have been Syracuse. 89.1 and 93.9 had foreign language programs, so I presume New York City, but could get no ID's before it fizzled.

It is my hope to listen to some FM in Europe within the next few days. Perhaps I will have a report on stations heard in Vienna, Salzburg, Paris, London, and Edinburg. Will see you all next month. Total: 925 with 233 Ed. band. 73, Calsh

## SOUTHERN FM DX:

Danny Buntin 1312 N. Skyline Stillwater, CK 74074

DEADLINE: 10th

#### THE BEST SEASON EVER CONTINUES FOR SOME DXERS

Trop activity continued to hold up rather well through mid-July. By the 13th, the last reported good day, the best openings(ranging to around 700 mi. distant)had shifted to the more easterly areas such as West Virginia and Tennessee. Among the most interesting of this year's tr catches were the El Paso, TX loggings made by Vernon Eaton of AR. Tr needs moisture for development, and it must have taken quite an odd twist in the weather patterns to bring long haul tr out of arid El Paso, which receives only 8 inches of rain yearly.

Es stayed dead all through the first half of July before suddenly coming alive to an amazing extent on the 17th, featuring long lasting openings and high MUF's, similiar to the super Es day of June 18th. Nearly every one reporting this month had a good time with the 17th. There were several other skip days for the remainder of July, but most were not very outstanding. The tendency for Es continued into early August, but weak openings were still apparent.

Tim McVey, Rt. 3, Box 568, Bolivar,	IN 380	08 - May 18 to July 15
5/18 tr	UJE	5/30 Es
0827 WKOM 101.7 TN Columbia, k		0929 WRUM 96.3 ME Rumford, m
	162	
WUTC 88.1 TN Chattanooga	211	0932 WCFR 93.5 VT Springfield, m
		(state #34)
5/21 tr		0935 WDEA 95.7 ME Ellsworth
1000 WNAN 106.3 AL Demopolis, c	202	09 CBZ 101.5 NB Fredericton-St. John
2200 WWYN 98.3 MS Carthage, k	169	(province #2)
2215 WCRQ 92.7 AL Arab, r	100	0939 WPOR 101.9 ME Portland, r
2218 WTUG 92.7 AL Tuscaloosa, r	165	0941 WXLQ 103.7 NH Berlin
2229 WEXA 101.7 MS Eupora	MILTERY	0942 WNBX 103.7 NH Keene, r
	23	0945 WBGW 97.1 ME Bangor, k
<u>5/24</u> tr	7.6	09 WDCS 97.9 ME Portland, c
1000 WHIL 91.3 AL Mobile	322	0950 WKTR 97.7 ME Millinocket
1000 WJSU? 90.7 MS Jackson	214	0954 WRFB 101.7 MT Stowe
	- 1	0956 WTOS 105.1 ME Skowhegan, m
5/26 tr		0958 WMEM 106.1 ME Presque Isle, c
	250	1000 WVTC? 90.7 VT Randolph Center,
2100 WPSR 90.7 IN Evansville, c	205	far-fetched tent.
the a		1010 WTMS 96.1 ME Presque Isle, r
/27 Es	000	( /s n - s -
130 KMOR 92.9 NE Scottsbluff, mr	908	6/1 Es, tr
state #31)	torn	2055 KOOL 94.5 AZ Phoenix, m
	1053	2048 KMCR 91.5 AZ Phoenix
state #32)		2059 KUAT 90.5 AZ Tucson
		2101 KALJ 95.1 AZ Yuma
5/28 tr	V - 84	2106 KNIX 102.5 AZ Phoenix, m
1200 WKNZ 101.7 MS Collins	10.00	2108 KDOT 100.7 AZ Scottsdale, r (new call)
r lon n	81.1	2109 KBBC 98.7 AZ Phoenix, r
5/29 Es		2113 KHEP 101.5 AZ Phoenix, c
2230 KFYR 92.9 ND Bismarck, r	3	2115 KJYK 94.9 AZ Tucson, e, "K-joy"
2235 KQDY 94.5 ND Bismarck		2117 KUPD 97.9 AZ Tempe,
2239 KSDN 94.1 SD Aberdeen, c	- 1	2122 KDKB 93.3 AZ Mesa, r
2240 KMOT 93.7 ND Minot		KRFM 96.6 AZ Phoenix, e
KQAA 94.9 SD Aberdeen, r	- 1	2132 KITY 92.9 TX San Antonio, r, prev. Es
KCJB 97.1 ND Minot, e	. 1	2200 KVTT 91.7 TX Dallas
2300 KUSD 89.7 SD Vermillion, c		2212 KSMB 94.5 LA Lafayette
2240 KMOT 93.7 ND Minot 2241 KQAA 94.9 SD Aberdeen, r 2247 KCJB 97.1 ND Minot, e 2300 KUSD 89.7 SD Vermillion, c 2300 KESD 88.3 SD Brookings 2301 KPAT 97.3 SD Sioux Falls, m		2222 KLCL 99.5 LA Lake Charles
2301 KPAT 97.3 SD Sioux Falls, m	3.0	2230 KEPT 96.5 LA Shreveport
2302 KSEZ 97.9 IA Sioux City, r		22 KISS 99.5 TX San Antonio
(state #33)		2240 KBUC 107.6 TX S. A.
2315 KSJM 93.3 ND Jamestown, e	1.0	2245 WOAT 97.3 TX S. A. 2307 KMFM 96.1 TX S. A.
5/30 Es		2007 MARM 90.1 TA S. A.
0900 WMGX 93.1 ME Portland, m		6/2 tr
0925 WPBC 92.9 ME Bangor,		0758 KKNG 92.5 OK Oklahoma City, e
0924 WCOU 93.9 ME Lewiston, k "U-94		0800 KATT 100.5 OK OKC. r
The state of the s		OUT THAT TOU. J ON UNU, I

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SOUTHERN FM DX
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6/25 tr
0800 KNED 101.3 OK McAlester
                                              2359 KWGS 89.5 OK Tulsa
0804 KMOD 97.5 OK Tulsa
                                              (also Tulsa and Okla. City relogs..)
          92.9 OK Tulsa, e
0805 KBEZ
                                              6/26 tr
0806 KRAV 96.5 OK Tulsa, r
0806 KCFO 98.5 OK Tulsa, g
                                              0000 KSFI 93.9 OK Stillwater, m
most Dallas-Ft. Worth stations in also
                                              0001 KYEZ 93.7 KS Salina, r
                                              0002 KMMM 106.9 OK Muskogee, s
                                              0006 KKKX 95.7 KS Ottawa
0754 KZIP 98.7 TX Amarillo
                                              0011 KTFX 103.3 OK Tulsa, k
0758 KTEN 93.3 OK Ada
                                              0017 KTPK 106.9 KS Topeka, k
                                              0021 KWEN 95.5 OK Tulsa, r
                                                   KTCS 99.9 AR Ft. Smith, k
0755 KBFL 90.3 MO Buffalo
                                              0849 KHEN 99.5 OK Henryetta, m
1100 WCRU 89.7 FL Miami,g
                                              0940 KCKN 94.1 KS Kansas City, k
           93.1 FL Miami, c
1100 WTMI
                                              0946 KMBR
                                                         99.7 MO K.C., m
1101 WKIZ
           92.5 FL Key West
                                              0950 KYYS 102.1 MO K.C., rp
1106 WWWL
           93.9 FL Miami Beach,r, "love-94"
                                              0954 KRES 104.7 MO Moberly, k
1106 WINZ 94.9 FL Miami Beach, r
                                              1000 KSCF 97.1 MO Florissant, m
11-- WMJX 96.3 FL M1ami, m
1112 WAIA 97.3 FL Miami, m
1200 KREX 92.3 CO Grand Junction, e
                                              0815 KLWT 92.1 MO Lebanon, k
12-- KGRE 92.5 CO Greeley, e
                                              0828 KTLO 98.3 AR Mountain Home
1216 KTCL 93.3 CO Ft. Collins,
1220 KYTN 94.7 ND Grand Forks
           93.3 CO Ft. Collins, pr
           93.7 SD Winner, r
1232 KWYR
                                              0928 KSLH 91.5 MO St. Louis
          92.9 NE Scottsbluff. m
                                              0930 KCLC 89.1 MO St. Charles
1254 CFVP 92.1 AB Calgary, r.prov. #3
1404 KWHO 93.3 UT Salt Lake City
14-- KUER? 90.1 UT SLC.e
                                              1001 KLYF 100.3 IA Des Moines, e
1406 KBYU 88.9 UT SLC, c
1410 KCFX 98.7 UT SLC, r
1412 KESP 103.5 UT SLC, r
                                              1005 KRNA 93.9 IA Iowa City, r
                                              1011 KGRS 107.3 IA Burlington
                                              1014 KLSS 106.1 To warm Sity, r
1017 KORS 92.5 IN dollar valley, r, state #35
1415 KSFI 100.3 UT SLC, e
1415 KALL 94.1 UT SLC, m
                                              1028 KAUS 99.9 MN Austin-Albert Lea, k
1416 KDAB 101.1 UT Ogden, r
                                               1030 WZZC 101.3 IL East Moline, r
1433 KQIX 93.1 CO Grand Junction, r, "Q-FM"
                                              1030 WQCY 99.5 IL Quincy, em
                                               1100 WLVE 94.9 WI Baraboo-Madison, e
                                               (state #36)
2020 KBRA 97.9 KS Wichita, e
                                               11-- KNUF 93.1 MN New Ulm, m
2025 KFDI 101.3 KS Wichita, k
                                               1059 KEEY 102.1 MN Minneapolis-St. Paul, e
2026 KBUZ 106.5 KS Arkansas City, pr
                                              1106 KEEZ 99.1 MN Mankato, m
2029 KMCK 105.7 AR Siloam Springs, r
                                              1125 WVEM 101.9 IL Springfield, me
2032 KSWT 107.7 KS Topeka, e
                                              1133 KYSM 103.5 MN Mankato, e
2037 KSKU 102.1 KS Hutchinson, r
                                              1128 KIIK 103.7 IA Davenport, r
2044 KSKG 99.9 KS Salina, r
                                              1129 KIWI 105.3 IA Dubuque, m
2046 KBEZ 92.9 OK Tulsa, e
                                              1123 KROC 106.9 MN Rochester, r
                                              1135 KNXR 97.5 MN Rochester, m
2059 WIBW 97.3 KS Topeka, mr
2059 KMUW 89.1 KS Wichita
                                              1147 WAYL 93.7 MN Minneapolis, e
2343 KWKI 93.3 MO Kansas City, g
                                              11-- KRVR 106.5 IA Davenport, mr
2345 KICT 95.1 KS Wichita, pr
                                              1205 KSJR 90.1 MN Collegeville
(May 18 to July 15, best two months of DX | 1300 KNWS 101.9 IA Waterloo
 I have ever had.)
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Well, folks, this has been a great spring-summer DX time for me. Logs now stand at 600. 36 states, etc. Receiver is a JVC JT-V22 tuner with a Finco FM-5 antenna and C. M. rotor. I was absent for two weeks, so I probably missed lots more. I was told that TV reception was lousy on locals. By the way, the "e" following some of my listing denotes "easy listening," "beautiful music," "Muzak," or whatever you want to call it. The format is so widespread that I believe it deserves a separate letter. I'll end now with a wish for lots of good DX to "ya'll out there." 73, TIM....

Pat Dyer, 5315 Silvertip Dr., San Antonio, TX 78228

Just a short note to let you know I'm still here and active. There has been just so much FM Es(and not getting the new Atlas until mid-June) I'm backed up to June 2 with tapes to review. I've also been active on 2-m(144 MHz) and had a good Es session there on Jul 17. STATS: June 1980 20 days, 37 openings, 2400 minutes (best since '77) (I was away most of July 1980 13 days, 30 openings, 1615 minutes (" ") July '79)

30You have the prior years' data from my previous reports. Sure hope I can get this backlog cleared up soon. 73, Pat

A winter Es opening on Jan. 6 extended into FM from Texas -- stereo rock on 88.1 at 1720; 1733 organ, gospel on 88.3; 1738, stereo'jaxx 88' with CST time check--this KUHF? 1736 stereo classical on 1736,\$ soul on 90.9; 1750 88.7 jazz mentioning Houston; 1752 and earlier ATC on 91.3, KVLU or KNCT? 1752, All Things Considered on 90.3; 1759 Dallas-Ft. Worth on 90.1 so KERA; MUF drops around 1815. It may well go above 92 MHz at times but I find commercial stns so boring I don't always look for them even when they're DX!

Glenn Hauser, University Radio WUOT, Knoxville, TN 37916 CST

On Feb. 24 at 0046 I logged the first ID aired by our new WUOT relay station, in tests, WUTC 88.1 Chattanooga; and the second Feb. 28 at 1729; after that it was on more or less

After various Es opening affecting on TV, I caught one into FM on June 18, at 1640 with Quebecois French on 89.3, tho the only Canadian listed in the latest FM Atlas on the freq. is CBON-20 Thunder Bay; 1658 French on 89.1, 1700 taped ID as CKRL-MF (Quebec City) at 1730 the 89.3 had a R-Canada ID. classical music.

July 7, a nice(if close)tropo opening, bringing in all 4 West Virginia public radio net stations, in parallel, opera at 2225, ID at 2245 as WVPN 88.5 Charleston, WVPB 91.7 Beckley, WVPW 88.9 Buckhannon, WHPW 89.9 Huntington. Despite the fact that WHFW has the lowest listed power, the opening favored it with the strongest signal here. Then some weaker signals from Pittsburgh--at 2300 on 90.5, jazz, 2305 WDUQ s/off, saying transmitter atop Mt. Washington(not the one in NH, I assume!) and that we should 'stay tuned' until they signed on the next morning. No, thank you. Usual QRM from 2nd harmonic of TV set video IF from 45.25 MHz -- a good reason no station should voluntarily go on 90.5 MHz! At 2307, WXLK-92.3, "Roanoke's K-92FM" with jivey black DJ, wx.

On July 17 during bang-up Es opening extending into 186 MHz, I condescended to log some commercial FMs, since the band was wide open to the top. At 1800 tune-in, found KEYA-88.5 of Belcourt ND with ID in passing; at 1803 on 88.1 mentioning Manitou Springs and SE CO. time as "6:02" and at starting American FM nx; KCME. Denver's KBPI 105.9 IDed in passing at 1811, KAZY 106.7 at 1812. At 1813, WOCO 107.1 Oconto WI ID in passing; 1814 KLIN 107.3 Lincoln NE after at least a minute of hum resembling our bulk eraser. 1823, CKWG 103,1 Winnipeg Man. with promo; lots of 'live' woman DJs to be heard in this opening, I am glad to say. 1829, KRAD 103.9 E. Grand Forks MN ID; 1830, CKWG 103.1 ID as 'Stereo 103', 7:30 time, wx. 1832, KABG 105.5 Cambridge MN ID in ad, also mention 'FM 105'. 1836, KKFM 96.5 Colorado Springs giving phone as 596-KKFM. 1838 on 94.3, "Q-94, The Music FM" ID, not sure what, maybe just Oak Ridge. 1841 classical on 98.3, must be CBW Winnipeg. 1843, WCCO 102.9 Minneapolis, Valley Fair ad, ID, woman DJ; 1846, KVGB 104.3 and 'FM104', wx, woman ancr. Jill Foss, temp also 104; Great Bend KS. 1852, Victoria Station ad on WCCO 102.9 At 1854, ad mentioning I-35-W and University SW, presumably Anoka as logged a few minutes later: 1859 on 107.9, Szechwan Star restaurant ad, woman DJ, "K-Twin FM 108" ID (KTWN 107.9 Anoka MN -- what's wrong with that way of saying it??). 1905, WJJY 106.7 Brainerd MN with nx; 1924 safety PSA mentioning Windsor on 99.1 so KUAD, CO. 1928 ending NBC nx, then local man with nx on 107.5, "Z-107," KLIZ-FM, Brainerd MN. At 1930 on 106.3, River Falls ID so WEVR Wisconsin. 1931, WLOL 99.5 Minneapolis ID, wx, yet another woman announcer. 1958 on 97.9 ending drama 'Story of Great Christians' (Michael Faraday), and KFNW ID: Fargo ND . 1959 on 98.3 CBC-Stereo and CWB Winnipeg IDs, Arts National(a program I dearly wish I could hear at will). 2045 MUF down but 98.3 still in. 2051 on 98.7 Fargo ad, so KQWB Moorhead MN. A bit of Es left at 2126 check when on 89.3 there were a classical station and a jazz station mixing.

Receiver here is a Pioneer TX-9100, antenna a combo VHF/FM multi-element mounted just above the roof of my one-story house. During a strong opening I have the antenna 'split' four ways (to FM and 3 TV sets) with no amplification.

John "Khush" Hart, Box 644, Carlin, NV 89822 PDT
Equip.as of 6/18: Panasonic RF-594 port. AM/FM rx using w/twinlead about 20 ft. long I'm located in NE Nevada(Elco Co.)5,000 ft. alt., 250 mi. from Reno, Salt Lake City, and Boise, ID and about 400 mi. N. of Las Vegas, NV. Lots of coyotes, still a few eagles, sage and grease wood and rabbit bush(with lots of jack rabbits.) Buffalo grass is coming back now with lots more rain than usual for this dry, semi-arid desert mountain country. for Anoka Co.... 78 in the cities (Minn-St.

6/18 Es (My first attempt at DXing FM!) 1300 KTTS 94.7 MO Springfield, nx 1244 1303 KWPM 93.9 MO West Plains, M nx, 1300 local wx ID "These are the great ones

1315 unID: EL mx. ID "You've dialed the music station FM-94" 1432 KNOF??95.3?MN St. Paul, T-storm act. Paul?, ID"95-FM" est. 1000 1335 KNEN 94.7 NE Norfolk, ads 1725 CFMQt 92.1 SA Regina? ID: Ici Radio Canada a Saskatchewan, FF nx

KSFI 100.3 UT Salt Lake City, reg. local here, for long time only one heard!

SOUTHERN FM DX

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Rick Samford, 404 S. McNeill, Burnet, TX 78611 - July 7 to Aug. 5 CDT
    0702 KMAR 95.9 LA Winnsboro
                                                  1728 WEVR 106.3 WI River Falls-Hudson
    0802 WQNZ 95.1 MS Natchez-LA Vidalia
                                                  1731 WGGR 105.1 MN Duluth
    "Z-95"," ID after over 2 min. of dead air
                                                  1734 KDWB 101.3 MN Richfield
                                                   1736 KAUS 99.9 MN Austin-Albert Lea
    7/14 tr
0758 WQNZ 95.1 MS Natchez, r
                                                   1740 KRNA 93.9 IA Iowa City
                                                   1744 KEEY 102.1 MN St. Paul-Minneapolis,
    0759 WRPM 107.9 MS Poplarville
                                                    "Key," ID, m
                                                  1745 KOSG 92.7 IA Osage
1754 WDOR 93.9 WI Sturgeon Bay
    0725 KRVS 88.1 LA Lafayette, FF
                                                  1759 WBKV 92.5 WI West Bend
                                                   1759 WJPD 92.3 MI Ishpeming
    1348 WXKW 104.1 PA Allentown, ID, Lehigh
    Valley wx
                                                   1254 KJLH 102.3 CA Compton
    1351 WQKX 94.1 PA Sunbury, "94-KX," r
                                                  1257 KJOI 98.7 CA Los Angeles, nx
    1353 WNOZ- 99.9 NY Cortland, r
                                                  1257 KWXY 98.5 CA Cathedral City
    1357 WDCX 99.5 NY Buffalo
                                                  1258 KDES 104.7 CA Palm Springs
    1359 WKSB 102.7 PA Williamsport
                                                  1300 KDUO 97.5 CA Riverside
    1400 WBEN 102.5 NY Buffalo, r, "Rock-102"
                                                  1301 KOLA 99.9 CA San Bernardino, "Cola," ID
    1402 WYSS 94.3 PA Saegertown
                                                  1305 KGB 101.5 CA San Diego
    1408 WGCR 104.5 PA WellsboroMansfield
                                                   1306 KZLA 93.9 CA Los Angeles, r
    1409 WELA 104.3 OH East Liverpool
                                                  1310 KIIS 102.7 CA Los Angeles, r
    1410 WDOK 102.1 OH Cleveland, "FM-102"
                                                  1311 KIQQ 100.3 CA Los Angeles
    1426 WLKR 95.3 OH Norwalk, r
                                                  1313 KHTZ 97.1 CA Los Angeles, "K-Hits-97"
    1429 WMJC 94.7 MI Birmingham, "Magic-95"
                                                  1314 KSON 97.3 CA San Diego
    1430 WQAL 104.1 OH Cleveland
                                                  1316 KXFM 99.9 CA Santa Maria
    1431 WAMO 105.9 PA Pittsburgh
                                                  1319 KRUZ 103.3 CA Santa Barbara, "Cruise," m
    1433 WNUF 100.7 PA New Kensington, big band
                                                  1321 KSMA 102.5 CA Santa Maria
    1435 CKFM 99.9 ON Toronto, "99-9"
                                                  1323 KFSD 94.1 CA San Diego
    1437 CHUM 104.5 ON Toronto, "104-Chum-FM", p
                                                  1324 KCRW 89.9 CA Santa Monica
    1442 WDMT 107.9 OH Cleveland
                                                  1332 KNOB 97.9 CA Long Beach
    1446 WRMZ 99.7 OH Columbus, m, "$-100"
                                                  1334 XHRM 92.5 BCN Tijuana
    1448 WKNT 100.1 OH Kent
                                                  1336 KBZT 94.9 CA San Diego, oldies,
    1450 WNCI 97.9 OH Columbus
                                                   "K-Best-95"
    1455 WTOF 98.1 OH Canton-Akron
                                                  1341 KIFM 98.1 CA San Diego
1352 KTMS 97.5 CA Santa Barbara, p,
    1458 WDAO 107.7 OH Dayton
    1547 WHSB 107.7 MI Alpena, r
                                                   "The Rock of the Coast"
    1549 WMUZ 103.5 MI Detroit
                                                  1356 KBBY 95.1 CA Ventura-Oxnard
    1552 WGER 102.5 MI Bay City-Saginaw-Midland,
                                                  1358 KFSG 96.3 CA Los Angeles
1359 KYXY 96.5 CA San Diego
    1557 WGMZ 107.9 MI Flint
                                                  1359 KCSN 88.5 CA Northridge
    1600 WJFM 93:7 MI Grand Rapids, r,
                                                  1400 KMET 94.7 CA Los Angeles
    "Mellow 93"
    1604 WKCQ 98.1 MI Saginaw
    1605 WJML 98.9 MI Petoskey
                                                  0852 KRVS 88.1 LA Lafayette
    1614 WNIC 100.3 MI Dearborn-Detroit, r
    1617 WIBM 94.1 MI Jackson, "I-94," ID
    1621 KYSM 103.5 MN Mankato
                                                  1013 KTIZ 96.9 LA Alexandria, ex KSLI, now s
    1622 WWRW 103.3 WI Wisconsin Rapids, r,
                                                   (was m)
                                                  8/1 Es
    1629 WMUK 102.1 MI Kalamazoo
                                                  1000 WDYN 89.7 TN Chattanooga
    1631 WDUZ 98.5 WI Green Bay
    1633 KNXR 97.5 MN Rochester, m
    1636 WDEZ 101.9 WI Wausau, EZ
                                                  0859 KRUN 103.1 TX Ballinger, ex-KCWB, TSN
   1640 WJEZ 104.3 IL Chicago, "$ Country," ID
                                                  nx, auto k
    1642 WGCI 107.5 IL Chicago
   1648 WGRD 97.9 MI Grand Rapids, r
   1649 WKHQ 105.9 MI Charlevoix, "KHQ"
                                                  0913 CJBX 92.7 ON London, "BX-93 Country," wx
   1656 WAPL 105.7 WI Appleton, p
                                                            92.1 OH Wapakoneta-St. Marys, wx
   1659 WYEN 106.7 IL Des Plaines, nx
                                                  0918 WGTC 92.3 IN Bloomington, psa, ID, k
   1700 WFNN 104.7 MI Escanaba, r, "Fun-104"
                                                  0944 WYCA 92.3 IN Hammond, g
   1702 WOOD 105.7 MI Grand Rapids, wx, "Wood-FM"
   1710 WLAV 96.9 MI Grand Rapids, p
                                                     July 17th kept the month from being a
   "97-LAV-FM"
                                                  complete disaster, with the best skip heard
   1715 WRLO 105.3 WI Antigo?, r, brand new
                                                  coming for NY, PA and Toronto, NY is state
   station not listed in new Atlas
                                                  #41 here and the last one under 1400 miles
   1718 WCBY 105.1 MI Cheboygan
                                                  to be logged.
371728 KANY 106.3 IA Ankeny
                                                                      cont....
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Some recent correspondence from KRVS station manager, Charles W. Huebner, has added some insight into the operation of that station: "We began operating at 3000 watts on Nov. 6, 1979. Our antenna height is 100 feet and on April 7, 1979 we were still operating at 10 watts with the same 100 foot antenna." Oddly enough, the 4-7-79 reception was probably about the best I've ever encountered from this station. No mention of the 88.3 to 88.1 freq. change was made, but one has to assume that this also occurred on 11-6-79. Gounting the freq. change which I didn't in last month's report, I have 53 LA loggings. KGCL 107.3, Lake Jackson, TX commenced operation with 100 kw and(presumably)its new antenna on June 27th. This gospel station will now eliminate some 600-1000 mile FL tr that had been fairly common on that frequency. 73s, Rick

Vernon Eaton, 82 Springhill Acres, Benton, AR 72015 - June 25 to July 23 Equip: Sony 5130 tuner, Quad Finco FM 5's, coax on rotor, @60 ft. 617 logged. phone no.: 501/847-2066

May, June and July have been utterly fantastic. Starting in May I had 439 stations logged. It seemed tough to get more than 1 or 2 new loggings per week. (was hard for me to get 1 or two new ones per month with me. DB) About the middle of May things started happening. Things like tropo in all directions lasting for days at a time. Es for 180 degrees and lasting 8 to 10 hours at a time. All this I had only heard or read about. In three months time, I logged more stations than I had logged 20 months prior. I am a person who will not fool with the radio unless it's hot. I may be in one of the best all around DX spots in the U. S. I have logged many Es catches out of Canada, prior to June, no catches. June 25, an all time record breaking heatwave started in TX, OK, AR, KS and MO all at once. This created hot air rising to a dome of cold air that created fantastic tr from south to east 270 degrees that lasted 10 days. It blanketed all of TX, OK and KS. I doubt if we have any complainers, with all the tr and Es for June and July. This will go into the records as one of the all time best.

I taped a 10 watter WNMC of Traverse City, MI at 850 mi. It wasn't in the FM atlas, and I got call letters and city. Fantastic. Same night Es accross the band thru 107.9.

I got call letters and city. Fantastic.	same night as accross the band thru 107.9.
6/24 tr	6/28 tr
2245 KUHF 88.7 TX Houston, ID. \$ 350	0258 WFBQ 94.7 IN Indianapolis, ID, \$, r
2250 KPFT 90.1 TX Houston, ID, \$, k 350	0259 WXTZ 103.3 IN Indianapolis,\$ 550
2252 KTSU 90.9 TX Houston, r	0300 WTHI 99.9 IN Terre Haute, \$ p 475
2255 KYKR 93.3 TX Port Arthur, ID, \$, k	0301 WPFR 102.7 IN " ", ID, \$, p
2259 KFMK 97.9 TX Houston, ID, \$, r	0302 WVTS 100.7 IN , \$, r
2301 KLOL 101.1 TX Houston, ID, \$, r	0303 WDDD 107.3 IL Marion, ID, k 290
2303 KQUE 102.9 TX Houston, \$, m	0306 WBCL 90.3 IN Ft. Wayne, \$, c 640
2307 KAJN 102.9 LA Crowley, ID, \$, g 300	0307 WPTH 95.1 IN " ", \$, r
2310 KRBE 104.1 TX Houston, \$, r 350	0308 WMEF 97.3 IN , ID, \$, m
2320 KMCV 106.9 TX Conroe, \$ g 340	0310 WETL 91.7 IN South Bend 650
2324 KWIC 107.7 TX Beaumont, \$, r 350	
2325 KYND 92.5 TX Pasadena, \$, m 350	0315 WNDU 92.9 IN " " \$ 0316 WWJY 101.5 IN ID \$ m
	0330 KVAR 104.5 TX San Antonio, ID \$ 550
6/25 tr	0334 KRTU 91.7 TX " ",
1930 WSOF 89.9 KY Madisonville, ID, g	0335 KITY 92.9 TX , \$ r
2000 WOI 90.1 IA Ames, ID g 550	0336 WOAI 97.3 TX \$ m
2015 KWKI 93.3 MO Kansas City, g 350	0336 WOAT 97.3 TX
2017 KCUR 89.3 MO Kansas City, \$, C	0338 KTFM 102.7 TX \$ r
2033 KMBR 99.7 MO Kansas City, ID, m	0344 KUT 90.1 TX Austin, \$, j 450
2045 KBEQ 104.3 MO Kansas City, ID, r	0345 KLBJ 93.7 TX " ", ID \$ r
2110 KTFX 103.3 OK Tulsa, ID, \$, k 200	0346 KOKE 95.5 TX \$ k
2150 KKNG 92.5 OK Oklahoma City, ID 350	0347 KASE 100.7 TX \$ p
2151 KAFM 92.5 TX Dallas, \$, r 275	0405 WVUB 91.1 IN Vincinnes, ID, \$ p 425
2152 KYND 92.5 TX Pasadena, \$, m 350	0406 KSEL 93.7 TX Lubbock, \$ 575
2300 WIBW 97.3 KS Topeka, ID, \$, r 410	0407 KSCS 96.3 TX Ft. Worth, ID, \$, k 285
2330 KFDI 101.3 KS Wichita, ID \$, k 390	0410 WIKY 104.1 IN Evansville, ID,\$ 360
	0411 WVHI 105.3 IN Evansville, k
6/26 tr	0500 KWMU 90.7 MO St. Louis, ID, j 350
1225 KYYS 102.1 MO Kansas City, ID, \$, r	321 311 311 321
2300 KXCV 90.5 MO Maryville, ID, \$, c 450	1010 KIXS 93.3 TX Killeen, ID, p 400
2305 WUOL 90.5 KY Louisville, \$ 450	1030 KOKE 95.5 TX Austin, ID 450
2310 WBHM 90.3 AL Birmingham, \$, c 350	1032 KWJS 94.9 TX Arlington, ID 275
	TOJE MINOS /YES IN ALTENGOOM, IN
6/28 tr	6/29 tr
0240 WVJC 89.1 IL Mt. Carmel, ID, \$ 485	0152 WENN 107.7 AL Birmingham, \$ j 350
0250 WFMS 95.5 IN Indianapolis, ID, \$	0153 KWIC 107.7 TX Beaumont, \$, r 360
0252 WIAN 90.1 IN " ", ID 550	0154 WABD 107.9 KY Ft. Campbell 310
0257 UNAD 02 1 TH	
0237 WNAP 93.1 IN , \$ P	0156 WQLT 107.3 AL Florence, ID, \$ r (cont.) 3

SCUTHERN FM DX	Eaton	, cont.	SEPTEMBER, 1	980
6/29 tr 0214 KDNT 106.1 TX Denton, ID, \$ k	280	7/4 tr 0835 KRVS	88.1 LA Lafayette	31
0216 KNTU 88.1 TX Denton, ID, r 0220 KMMK 95.3 TX McKinney?? \$ 0227 KESS 93.9 TX Ft. Worth, \$ 0230 KEAN 105.1 TX Abllene, ID, \$ k		7/5 tr 0108 WIVK 0110 WUOT	107.7 TN Knoxville, ID \$ k 91.9 TN Knoxville, c	55
0230 KEAN 105.1 TX ADJiene, ID, \$ k 0232 KFMN 107.9 TX ADJiene, r 0240 KQIP 96.9 TX Odessa, \$ m 0241 KOYL 97.9 TX Odessa 0802 KSUC 88.3 TX Keene 0825 KSJT 97.5 TX San Angelo, \$ 0828 KWLW 93.9 TX San Angelo, \$ 0910 KOKE 95.5 TX Austin, ID \$ k 0912 KLBJ 93.7 TX Austin, ID, \$ p 0915 KTBC 92.1 TX Nacogdoches, ID, \$	650	7/12 tr		
0241 KOYL 97.9 TX Odessa	640	2103 WTSU	90.1 AL Troy, ID, \$ c	50
0802 KSUC 88.3 TX Keene	280	2111 WRES	105.7 AL Troy, ID, r	50
0828 KWLW 93.9 TX San Angelo, \$	540	2125 WWNO	89.9 LA New Orleans \$ c	40
0910 KOKE 95.5 TX Austin, ID \$ k	450	five other	relogs from New Orleans also	
0912 KLBJ 93.7 TX Austin, ID, \$ p	450	2244 WBAD	94.3 MS Leland, ID	13
0915 KTBC 92.1 TX Nacogdoches, ID, \$ 1000 KKNG 92.5 OK Oklahoma City, ID,	g	2345 WREY	95.5 AL Dothan, ID, \$ k	51
	350	0003 WPMO	99.1 MS Pascagoula, ID	144
relogged		0020 WKMX	99.3 GA Atlanta 99.1 MS Pascagoula, ID 106.7 AL Enterprise, ID	51
2258 KGOW 92.1 OK Broken Arrow, ID,	\$ m	7/15 1-		
2305 KPYN 99.3 TX Atlanta, p	175	0243 WOITE	03 3 LA New Orleans ID \$	Lie
2325 KREK 104.9 OK Bristow, ID \$	180	1000	,,,,,	1
plus six others from Okla. City relogged  2258 KGCW 92.1 OK Broken Arrow, ID,  2303 KACW 99.3 TX Paris, ID, \$  2305 KPYN 99.3 TX Atlanta, p  2325 KREK 104.9 OK Bristow, ID \$  2343 KCSC 90.1 OK Edmond, ID \$ p  0030 KPAN 106.3 TX Hereford, ID, k  7/1 tr  0200 KSWT 107.7 KS Topeka, ID, \$  0204 WIBW 97.3 KS Topeka, ID, \$  0204 WIBW 97.3 KS Topeka, ID, \$	365	7/16 tr	20 0 0 0 1	
00)0 APAN 106.) TA Hereford, ID, K	600	0.533 KAND	88.7 TX Houston, \$ j	33
2/1 tr	11.11.71.71	0735 KPFT	90.1 TX Houston, \$	3
7/1 tr 0200 KSWT 107.7 KS Topeka, ID, \$ 0204 WIBW 97.3 KS Topeka, ID,\$ 0204 KTFK 106.9 KS Topeka \$ 0205 KBRA 97.9 KS Wichita, \$ 0206 KICT 95.1 KS Wichita \$ 0208 KFDI 101.3 KS Wichita, \$ 0209 KARD 107.3 KS Wichita, \$ 0209 KARD 107.3 KS Wichita, \$ 0208 KFCI 90.1 KS Hutchinson 0209 KSKU 102.1 KS Hutchinson, ID \$ 0212 KBHL 95.3 NE Lincoln, \$ 0213 KFMQ 101.9 NE " \$ 0218 KHAT 106.3 NE \$ 0220 KVNO 90.7 NE Omaha, \$ 0225 KGCO 99.9 NE \$ 0235 KGCO 99.9 NE \$ 0250 KGBI 100.7 NE \$ 0300 KEZK 102.5 MO St. Louis, ID, \$	330	0736 KTSU	90.9 TX Houston, \$ j	100
0204 WIBW 97.3 KS Topeka, ID,\$		2/12 P-	1 1 1 2 1 1 1 1 1	
0205 KBRA 97.9 KS Wichita. \$	350	1555 WLVE	94.9 WI Baraboo. ID \$ m	70
0206 KICT 95.1 KS Wichita	350	-1605 WJMC	94.9 WI Baraboo, ID \$ m 96.3 WI Rice Lake, ID 101.1 MN Bemidji	80
0208 KFDI 101.3 KS Wichita, \$	100	1613 KBHP	101.1 MN Bemidji	98
0209 KARD 107.3 KS Wichita, \$	400	1620 KKDQ	92.9 ND Grand Forks, ID \$	104
0209 KSKU 102.1 KS Hutchinson, ID \$	400	1633 KFJM	89.3 ND Grand Forks. \$	104
0212 KBHL 95.3 NE Lincoln, \$	520	1635 WDAY	93.7 ND Fargo, \$ m	95
0213 KHMU 101.9 NE " " \$	15	1636 KYTN	94.7 ND Grand Forks m	104
0220 KVNO 90.7 NE Omaha, \$	530	1638 KFYR	92.9 ND Bismarck. ID r	102
0225 KEZO 92.3 NE " " \$		1639 KSJM	93.3 ND Jamestown m	99
0208 KFDI 101.3 KS Wichita, \$ 0209 KARD 107.3 KS Wichita, \$ 0208 KHCC 90.1 KS Hutchinson 0209 KSKU 102.1 KS Hutchinson, ID \$ 0212 KBHL 95.3 NE Lincoln, \$ 0213 KFMQ 101.9 NE " \$ 0218 KHAT 106.3 NE \$ 0220 KVNO 90.7 NE Omaha, \$ 0225 KEZO 92.3 NE " \$ 0235 KGOR 99.9 NE \$ 0230 KGEZ 100.7 NE \$ 0300 KEZK 102.5 MO St. Louis, ID, \$ 0305 KSLQ 98.1 MO St. Louis, ID \$		1640 KNDR	104.9 ND Mandan m	10
0300 KEZK 102.5 MO St. Louis. ID. \$	350	1641 KMAV	93.7 ND Minot TD "2'94"	11
0305 KSLQ 98.1 MO St. Louis, ID \$		a file from man	mate a committee of the	433
0300 KPRS 103.3 MU Kansas City \$	350	1700 KQSK	97.5 NE Chadron, ID	Q.
0800 WMOT 89.5 TN Murfreesboro, ID,	\$ "	1708 KLAN	96.1 ND Welliston, ID	115
7/2 tr		1749 KQDY	94.5 ND Bismark, ID, k	10
0100 WIRH 89.3 AL Huntsville, ID, \$	340	1750 KAWY	94.5 WY Casper,ID	10
0222 WKDF 103.3 TN Nashville ID	340	1815 KTAR	93.5 WY Riverton, ID, m	100
0800 WMOT 89.5 TN Murfreesboro, ID,  7/2 tr 0100 WLRH 89.3 AL Huntsville, ID, \$ 0205 WCKW 92.3 LA Laplace, ID 0222 WKDF 103.3 TN Nashville, ID 0227 WACG 90.7 GA Augusta	250	1831 CKCU	93.1 ON Ottawa. French	125
0234 WZZK 104-7 AL Birmingham, ID 0250 WZXI 102-3 MS Ripley, ID 1920 WSKZ 106-5 TN Chattanooga, ID \$ 1921 WITC 88.1 TN "	350	1834 CBOF	93.1 ON Ottawa, French 102.5 ON " " ID	
0250 WTXI 102.3 MS Ripley, ID	200	1835 CBO	103.3 ON c	100
1921 WUTC 88.1 TN " " c	405	1845 CBKD	103.5 SA Buffalo Narrows, Fren	ch ch
1922 WDYN 89.9 TN g		(Note: Bo	th stations would pop in and ou	t.
1924 WQEZ 96.5 AL Birmingham, ID m	350		ing in French, only other Cana	
1927 <u>WTUN</u> 100.1 AL Selma 1928 <u>WALX</u> 100.9 AL Selma	380		ONE. Es opening to NE)	170
	~~	1855 CHOI 1900 WENU	98.1 PQ Quebec, ID 89.1 MI Ypsilant, ID	150
7/3 tr		1903 CBV	95.3 PQ Quebec, French	150
0125 KPAS 93.9 TX El Paso, \$ 0126 KSOI 93.1 TX " " \$	875		95.3 IL Ottawa, ID	000
0127 KAMA 95.5 TX \$		1915 KCMM	89.5 MI Mt. Pleasant, ID 89.9 MI Grand Rapids	820
0128 KPAS 96.3 TX \$		1917 WCSG	91.3 MI " "	1
0130 KACV 89.9 TX Amarillo	560	1918 WJFM	93.7 MI	
7/4 tr		1919 WLAV 1924 WSMM	96.9 MI 101.3 MI Sault St. Marie	000
0830 WUTC 88.1 TN Chattanooga, ID	405	cont		990

SOUTHERN FM DX	Eaton,	cont. SEPTEMBER, 1980
SOUTHER THE SH		2040 CKAT 101.9 ON North Bay?? "City of Trees"
7/17 Es 1925 WSUE 99.5 MI Sault St. Marie 2000 CEGS 99.9 ON Sudbury 2015 WRVM 102.7 WI Suring, ID 2020 WGNM 103.1 MI Gladwin, ID  -A 10 WATTER VIA Es!- 2025 WNNC 90.9 MI Traverse City, r (Taped ID! 10 watter, NW Michigan Colle Rocks you) 2030 WCCW 92.1 MI Traverse City 2031 WIDR 101.9 MI Traverse City	990 810 840 850 850	10.5 OKNE 10.5 O
		-2550
John Zondlo, 1802 N. Rockwell, Apt. 10 7/17 Es 1939 WFLS 93.3 VA Fredericksburg 1958 WEZR 106.7 VA Manassas-Fairfax 2000 WITO 107.1 OH Ironton 2004 CILQ 107.1 ON Toronto, "Q107" 2025 CKO 106.9 ON Ottawa 2029 WCLW 105.3 OH Mansfield 2034 WMPO 92.1 OH Middleport, Reds bi 2038 WXIL 95.1 WV Parkersburg  All catches new. Times CDT. Equip Master stereo probe 9 antenna.	b	any, OK 73008 7/17 Es 2044 WKKW 106.5 WV Clarksburg 2101 WHRO 89.5 VA Norfolk 2104 WHIC 94.3 KY Hardinsburg 2109 WYFI 99.7 VA Norfolk 2110 WABX 99.5 MI Detroit 2118 WJNL 96.5 PA Johnstown, Pirates bb 2135 WHOK 95.5 OH Lancaster, Reds bb 2148 WKBN 98.9 OH Youngstown 2203 WXLE 94.3 AL Abbeville, k stic STA-42 receiver connected to 1/2 Channel
Rouing Realistic STA-42, with a 3 ft	<ul> <li>twin l</li> <li>new und</li> </ul>	), Parkersburg, WV 26101 - July 8 to Aug. 6 ead at 45 ft. AGL (5 miles east of the city erlined, ND=Neil Dickerson, Sharptown, MD, 304/422-2923
7/8 2009 WPME 105.5 PA Punxsutawney, w/WX 2021 WCHO """" OH Washington Court of (came back from Charleston, WV to fin- most of our stns were off due to these lousy storms we keep having! -hi) 1355 WIBZ off w/WSKQ booming, w/gener- enhancement on all area stns, this on	ff d out e al	7/14-15 0155 KWMU 90.7 MC St. Louis 0202 WVUB 91.1 IN Vincennes 0232 WVJC 89.1 IL Mt. Carmel 0240 WSIU 91.9 IL Carbondale 0335 KWNI still in! 0355 WVCC 101.7 PA Linesville in w/"Liberty Lobby" conservative commentary
7/11-12 0212 CJCM 88.7 ON Windsor 0215 WECL 90.3 IN Ft. Wayne 0242 WTLC 105.5 IN Indy 0302 WART 98.3 IN Plainfield, g 2240 WWKX 104.5 TN Gallian, great tro 2256 WZEZ 92.9 TN Nashville 2302 WSIX 97.9 TN " 2306 WFLN 90.3 TN 2330 WIVK 107.7 TN Knoxville 2343 WCKI 100.3 TN Oak Ridge 0030 WEZC 104.7 NC Charlotte 0130 WSPA 98.9 SC Spartanburg 0200 WGLD 100.3 NC High Point 0219 WSOC 103.7 NC Charlotte 0220 both WFMX & WEZC are in \$!! all day stuff in from 300+, WKJXWWKJI 1950 and WBBY 103.9 in by 2136		1038 WVUB in beside monster WCUB! Shocker! 1200 WKTA 106.9 TN McKenzie, booming in! 1953 WIKS 99.5 IN Indy 1004.1 IN Evansville 1213 CJOM 88.7 ON Windsor 1010 WGTC 92.3 IN Bloomington 1015 WLOS 99.9 NC Asheville 10026 WLBC 104.1 IN Muncle 10032 KGRS 107.3 IA Burlington 10032 KUNT back in again! 10100 WDAV 89.9 NC Davidson (Elving's right) 1019 WKMS 91.3 KY Murray, w/defective stereo 10206 WHOT 98.7 KY Hopkinsville 10206 WDNI 102.1 IL Danville 1020 WXIE 92.1 MD Oakland, in loud! all of the 1032 WTOR 104.1 NC Greensboro
7/13-14 2132 KUNI 90.9 IA Cedar Falls!! (Called ND to let him in on it but he nothing, also let him hear it "LIVE". 2236 KRES 104.2 MO Moberly, g. boomin	.)	7/16 0000 WAIF 88.3 OH Cincinnati hearing all or most Cindy stns in! 0248 WNSDt w/our typical jock MUMBLING into the mike.

2236 KRES 104.7 MO Moberly, g, booming!

2359 WCCM 101.7 OH Urbana
0052 WJMM 106.3 KY Versailles
0059 WKIR 104.1 TN Jackson
0108 WMEE 97.3 IN Ft. Wayne
0130 WVEZ 106.9 KY Louisville

after 1630 driven out of my room due to extreme heat!! 110+!!

7/17 SUPER ES OPENING!!
1310 KIVY 92.7 TX Grocket, cont....

SOUTHERN FM DX

7/15 tr 1240 WKQV 92.1 NJ Vineland, ex WDVL

95

1435 KBID 92.9 TX Wichita Falls

1503 KORQ 100.7 TX Abilene

7/17 Es	2000 KNXR 97.5 MN Rochester
1322 KLBJ 93.7 TX Austin	2010 KQIC 102.5 MN Willmar
1324 KROZ 92.1 TX Tyler	2016 KEEY 102.1 MN St. Paul
1329 KVTT 91.7 TX Dallas	
1335 KWTX 97.5 TX Waco	2018-2055? things get severely jammed!!,
1337 KHOO 99.9 TX Waco	3 to 6 stns on each freq.! FM going berserk!
	2057 KCLD 104.7 MN St. Cloud
1339 KPLX 99.5 TX Ft. Worth	2059 KORN 107.3 SD Mitchell
1346 KNFO 95.5 TX Waco	2116 KYSM 103.3 SD Mankato
1351 KNUS 98.7 TX Dallas	2127 KQRS 92.5 MN Minneapolis, "KQ-92"
1352 KPXI 100.7 TX Mt. Pleasant	2147 KYTN 94.7 ND Grand Fords
1353 KAFM 92.5 TX Dallas	2250 KEZO 92.3 NE Omaha, "Z-92"
1354 KIKT 93.5 TX Greenville	2252 KMCR 92.9 NE Scottsbluff
1359 KMGC 102.9 TX Dallas	2310 The super skip opening is out!!!
1408 KNOK 107.5 TX Ft. Worth	finally, tired from all of this 11 hour dxing
1410-1433? MUF leveling off to 93 MHz	phewthank's for the call John Buehler, OH
1439 KZEW 97.9 TX Dallas	
1445 KMEZ 100.3 TX Dallas	7/26
1448 KTXQ 102.1 TX Ft. Worth	0932 KKNG 92.5 OK Oklahoma City
1453 KVIL 103.7 TX Highland	0935 KBEZ 92.9 OK Tulsa
1459 KFMN 107.9 TX Abilene	1011 stuff out (While I was at our usually
1500 KEAN 105.1 TX Abilene	lousy 4H Wood County fair, ND tries to call me
1535 KBUC 107.5 TX San Antonio	to let me in on RJR 90.5 Jamaica!-DAMN!! what
1548 KWMJ 103.3 TX Midland	stundd luck on now DE didnik - I/Amn: What
1602 KCOT 104.7 TX Lamesa	stupid luck, anyway RE didn't notice anything
1615 KLBK 94.5 TX Lubbock	out of the ordinary so I don't know.)
1639 KHOM 104.1 LA Houma	7/20
	7/28
1700 KTXT 88.1 TX Lubbock	2008 KYKR 93.3 TX Port Arthur
1705 KQKY 105.9 NE Kearney, "KQ-106"	2010 KHYS 98.5 TX Port Arthur
1712 KWAS 101.9 TX Amarillo	2011-2100 several unIDs but f/out by 2100
1800 KTTL 93.9 KS Dodge City	
1807 KDCK 95.5 KS Dodge City	7/31
1832 KFMG 107.9 NM Albuquerque	1147 WQXE 100.1 KY Elizabethtown
(spot for their TV/23?) state #26	1150 WAKQ 101.1 KY Russellville \$
1843-1900? MUF lull below 88 MHz	1155 WLAP 94.5 KY Louisville
1900 CBC stuff on 98.3 & 100.9	1158 WMC 99.7 TN Memphis, 570 mi. tr, \$ too!
1910 KEZK 102.5 MO St. Louis, "Z-102"	1215 WSKV 104.9 KY Stanton, all out by 1330
1915 KHLB 107.1 TX Burnet	
1925 UNID French on 93.5	8/1
1936 WBHP 101.1 MN Bemidji, "KB-101"	1845 UNID 90.3 in SS, 2032 I get a call from
state #27	ND saying RJR 90.5 is back in but I don't hear
1937 KFNF 101.1 KS Oberlin	it. DAMN-not a sign of 'em, maybe under WDUQ.
1942 WSCD 92.9 MN Duluth, NPR feeds	8/4
75.7 75.7 10. 2024VIII 121. 10000	0005 CJEXt 92.7 ON London, "BX-93" k
	성도 그 그 그는 것은 그는 그는 그는 그것은 그는 그것 중에 가장으로 그렇게 가득하고 있었다.
Hello there! This is turning out to be ;	pretty fair skip season. The July 17 opening was
the most intense I have ever experienced t	to date. Naturally heard Hauser on RCI mention
the MUF hit 186 MHz for a period.	

Well, my "satellite screwup" was confirmed for me while I was down in Charleston, WV.

That special feed I heard was PBS, not CNN.

Celebrated the 4th with the people at WQBE 97.5 at their remote site. Yours truly got some interesting and exciting photoes, etc. Got some promotional stuff while I was there. so if anyone wants stickers from this area, feel free to write me stating your requests. I have tons of WIBZ stickers and WKYG so no problem. I would also like to trade for some of your area station stickers as well. I also would like to thank all of you who continue to write to me and call me as well. Anyone want any WKYG T-shirts? For \$5.00 you can't beat it! Just let me know how many you want, and I'll do the rest. (Do we have choice

It seems as though some people out there don't believe that Neil Dickerson received a \$6.00 in postage on a package..trust me he did.

Wishing to each and all the best of DXing!! Sincerely yours. RBC

#### Hank Holbrook, 7211 Chestnut St., Chevy Chase, MD 20015 EDT

Equip: Scott 310E FM tuner w/Blonder-Tongue FM booster, Finco 10 elemt. single bay FM yagi w/CDE rotor.

Last month I decried the fact that in the past couple of years FM DX had been very poor when I was able to get down to the cottage to DX. Guess it's just a case of being in the right place at the right time. Spent the week of 7/14/80 on vacation and the following logged and reported at our cottage at Fair Haven Cliffs, MD, overlooking the Herring and Chesapeake bays 15 miles below Annapolis, MD: (begins next page...)

THE RESERVE OF THE PROPERTY OF THE PARTY OF		370
7/16 tr, Es		370 990
	1922 WCCN 107.5 WI Neillsville, MUF here	265
2107 WBNM 90.3 NF Marystown, 1st NF 1180	1903 WMEG 92.1 WI Menomnie	875
	1042 KDAA 94.9 SD Aberdeen 1	215
7/17 Es 1255 VCSC 90.1 OK Edmond 1180	2005 KIXX 96.1 SD Watertown 1	140
Good but then covered by KERA, already	2123 KDLO 96.9 SD Watertown 1	140
QSLd, which dominated channel rest of day.)	1952 KKGKt 95.7 MN Morris, wx, no ID	060
1345 KKAJ 95.7 OK Ardmore 1185	1853 KQDE 92.1 MN Waseca, ad	935
1414 KTEN 93.3 OK Ada 1135	1900 WYRQt 92.1 MN Little Falls	
1414 KIEN 9313 OR Made		_
John Jefferson, 4016 Crest Ct., Pleasanton, C	The state of the s	-
1/21-80 ms (new underlined, new to Pleasanton	starred:)	025
0430 KWDE 96.1 CO Montrose, ID 740	1335 KAPI 107.1 CO Pleblo, ads	935
2/26 ms		915
0325 CJAZ 92.1 BC Vancouver, gave 820	1340 *KIIQ 102.7 CO Manitou Springs, ad 1342 *KPLV 98.9 CO Pueblo, "Love-99"	935
xmitter site o/test tone	1350*KQIX 93.1 CO Grand Junction, annc.	725
3/22 ms	1350 FVRH 92.1 CO Salida	860
0425*KZZP 104.7 AZ Mesa 630 "Good morning Phoenix"	1352 KCME 88.1 CO Manitou Springs, c	
"Good morning Phoenix	(verified by phone)	
0544 KXKQ 94,1 AZ Safford, ID 775	1353 <u>KCIC</u> 88.5 CO Grand Junction, ID 1355* <u>KUNC</u> 91.5 CO Greeley, ID 1357* <u>KILO</u> 93.9 CO Colorado Springs 1403* <u>KCFR</u> 90.1 CO Denver, ID	725
	1355*KUNC 91.5 CO Greeley, ID	930
1200 KLBS 104.7 CA Los Banos, ID, newfq 90	1357*KTLO 93.9 CO Colorado Springs	915
1200 ALDS 104.7 OR DOS DANOS, 1D, NORTA 70	1403*KCFR 90.1 CO Denver, ID	915
5/29 Bs	TAND KOMU AT A MT CHRONET TO	100
0915 KWOA 95.1 MN Worthington, ad 1390	1405 KREX 92.3 CO Grand Junction, ID	725
0925 KIJV 92.1 SD Huron, ID 1285	1408 KPPL 107.5 CO Lakewood, "K-people"	915
0927 KLOH 98.7 MN Pipestone, ads 1380	1410 KADX 105.1 CO Denver, ID	915
0930 KJAM 103.1 SD Madison, ID at 0940	1412*KBPI 105.9 CO " " ID	
0935 KOLL 93.5 WY Gillette, ad 945	1/413*KAZY 106.7 CO ID	
0936 KSDZ 95.5 NE Gordon, ID 1056	1415*KOAQ 103.5 CO Q line	
0940 KIOV 104.7 SD Sioux Falls, wx,ID 1370	1418 KICX 95.9 NE McCook, ID	1110
0947 KRSW? 91.7 MN Worthington, MPR nx	1545 KXL 95.5 OR Portland, ID	250
0953 KGGG 100.3 SD Rapid City, "KG-100"	1546 KLCC 89.7 OR Eugene. loc. ann.	445
1000 ???? 93.3 ? ad for Sonora Real	100 Miles (100 Miles (	
Estate in Laurel	6/19 Es	
1005 KYYY 92.9 ND Bismarck, "Y-93" 1230	0950 KYEZ 93.7 KS Salina, "Z-94, wx	1310
1005 KOLY 99.5 SD Mobridge, ID 1210		1315
1010 KOLL 93.5 WY Gillette, WY wx, 945	1000 KZED 93.5 KS Wellington, ID	1315
"93 Rock"	that =	
1015*KIZZ 93.7 ND Minot, local ad 1260	6/26 Es 1955 KUWR 91.9 WY Laramie, ID	000
1022 KMIT 105.9 SD Mitchell, local ad,	1955 KUWR 91.9 WY Laramie, ID	1220
(ID at 1040) 1285	2005 NNID 96.9 OK Enid, ID	1320
1030 KIXX 96.1 SD Watertown, local ad	2040 KATT 100.5 OK Oklahoma City	1355
1035 KDLO 96.9 SD Watertown, ID 1340	"Okie City" wx	1355
1058 KQAA 94.9 SD Aberdeen 1240	2041 KXXY 96.1 OK Oklahoma City	+322
2 Mar -	station promo, verified by phone 2045 KCSC 90.1 OK Edmond, ID	1355
6/15 Es	2058*KDKQ 104.3 TX Borger, "Q-104", wx	1145
1330*KSNM 95.5 NM Santa Fe,loc. ann. 890	2105 KXXK 105.5 OK Chickasha, s/off	1340
6/16 Pc	240) AAA 103.) OR OHIOROSHIA, 070.	-
6/16 Es 1205*KNFM 92.3 TX Midland. ID 1175	7/18 Es	
1205*KNFM 92.3 TX Midland, ID 1175 1217 KRIZ 97.1 NM Roswell, ID 1040	0645 KUER 90.1 UT Salt Lake City, ID	560
1220*KWGO 99.5 TX Lubbock, KD 1160	1000*KLBK 94.5 TX Lubbock, ID	1150
	1005*KLLL 96.3 TX Lubbock, ID	1150
(in Spanish 1221*KLYT 88.3 NM Albuquerque, "K-Light"	1007 KEAN 105.1 TX Abilene, local refs.	1275
1230 KYTX 98.7 TX Amarillo, "KY-99" 1115	1023 KJAK 92.7 TX Slaton, ID	1160
1248 KQIZ 93.1 TX Amarillo, "Z-93"		
1250 KWHW 93.5 OK Altus, ID 1235	7/20 Es	
1255 KQTZ 105.9. OK Hobart, "KQ-106" ads	1515 KGRE 92.5 CO Greeley, ID, new freq	. 930
1259 KXIT 95.9 TX Dalhart, ID 1045	1530*KVCD 99.5 CO Denver, c	915
1300 KMRE 95 3 TX Dumas 1090	1542*KOSI 101.1 CO Denver, ID	
1315 KSIW 93.5 OK Woodward, ad 1200	1600 KRKY 92.1 CO Castle Rock, ID	920
1330 KEZS 105.5 KS Liberal, ID 1105	1601 KADX 105.1 Denver, ID also*KLIR in	915
1333*KAVI 95.9 CO Rocky Ford, ID 980	1605*KSPN 97.7 CO Aspen, Aspen nx	815
777	ont.	
		,

SOUTHERN FM DX

7/20 Es 1607*KWBI 91.1 CO Morrison, nx 915 1623 KILO 93.9 CO Colorado Springs, ID " 1640 KCCY 97.9 CO Pueblo, ID 935 1730*KRWN 92.9 NM Farmington, ID 750 7/22 Es	7/22 Es 0927 CHFM 95.9 AT Calgary, ID 1025 0929 CJAY 92.1 AT Calgary, psa & "CJ-92" 0931 CKRA 96.3 AT Edmonton, loc. annc, "FM96" 0935 CKO6 101.9 AT Edmonton, CKO nx 1175 0936 CIRK 97.3 AT Edmonton, ads 1175 "Circuit" program
0645 KBIL 92.9 TX San Angelo, ID 1285 1848 ? 90.9 AT? Coutts? CBC AM net 0912 CBYG 91.5 BC Prince George, 1140 CBC Br. Col. (phone verie from CBU-AM) 0923 CKO5 103.1 AT Calgary, CKO nx 1025	7/24 Es 2000 CFMQ 92.1 SA Regina, ID o/CJAY 1240 7/25 Es 1012 KNUW 89.1 KS Wichita, ID, wx 1315 7/28 ms 0150 ? 96.1 96-Rock, DJ Dan Herrera

CFMQ gives me a new political unit, the first since Wyoming, in 6/77. And yes, it was in on top of what had to be CJAY Calgary(no ID, but music was right, and Calgary was in on TV at the time). Strange. And how about that 6/19 segue from Laramie, WY to Oklahoma in a 5 minute span? Had just gotten home from work, so may have missed most of a big one. Almost all of above done with new Winegard CH-6065 FM antenna 15' up. Bought it in late '79 to replace old SC-650 when the latter's elements began to blow out of position in the wind. Plastic braces were shot. As always, the tuner was the old Heathkit AJ-15, now in its 12th year.

That 93.3 unID from 5/29 baffled me. KSJM Jamestown, ND seemed obvious, but they didn't know of any such sponsor. KYYA Billings is near a Laurel, but there's no Sornora Realty there. The 96.1 unid should be identifiable once I get the new FM Atlas and figure out who is 96-Rock. Hoped to go over 500 by mid-season, but the total sits at 498.

#### John"Khush" Hart adds:

Note: on calculating distances from home QTH: Carlin, Nevada at 40-43N, 116-6W Distances in report taken directly from the Computer generated great circle bearing chart giving short path miles/kilometers bearing and retro-bearing from the abovekiven for 660 world wide locations, available from Bill Johnston, NSKR, 1808 Pomona Dr., Las Cruces, NM 88001 for \$2 3rd class mail, \$2.50 ist class. (He didn't ask me to advertize for him,hi!) For in-between points estimates are made from the above. 73s

#### Danny Buntin, 1312 N. Skyline, Stillwater, OK 74074 CDT July-Aug.

Equip.: Pioneer TX-9100 tuner, Antennacraf	t 10 el. up at 30 ft. with rotor 7/17 Es
0040 WQUE 93.3 LA New Orleans, ID, nx	1946 WJYE 96.1 NY Buffalo
0045 WBYU 95.7 LA New Orleans, ID 595	1954 WTWR 92.3 MI Detroit, "Tower 92"
"Bayou \$" (both quite weak)	1959 CJRT 91.1 ON Toronto, c, ID
the state of the s	2005 WFLS 93.3 VA Fredericksburg
7/17 Es	2022 <u>CKO1</u> 106.9 ON Ottawa
1650 WHWL 95.7 MI Marquette	2024 CILQ 107.1 ON Toronto, ad "Q107"
1659 WYSU 88.5 OH Youngstown 970	2030 WMUZ 103.5 MI Detroit, g
1715 WBEA 107.3 OH Elyria, ID	2031 CFNY 102.1 ON Brampton, ID
1716 WAMO 105.9 PA Pittsburg, ID 990	2040 CHUM 104.5 ON Toronto
1722 WRKY 103.5 OH Steubenville, ID	2050 WNIC 100.3 MI Dearborn-Detroit
1727 CFLY 98.3 ON Kingston, "Y-98" 1220	2058 CKNX 101.7 ON Wingham, ad
1732 WSEN 92.1 NY Baldwinsville	2104 CKFM 99.9 ON Toronto
1735 CKOT 101.3 ON Tillsonburg	2114 CKQM 105.1 ON Peterborough 1140
1746 WDBN 94.9 OH Medina, ad, ID	2115 WLEN 103.9 MI Adrian, ID 805
1830 CJFM 95.9 PQ Montreal, ID 1440	2125 WHDG 103.7 MD Havrea de Grace, ID
1832 WJOI 9317 PA Pittsburg, ID	2129 WWDC 101.1 DC Washington, "DC-101" 1105
1836 WKWK 97.3 WV Wheeling, "WKFM"	2204 CBM 93.5 PQ Montreal, "CBC" 1440
1850 WEZO 101.3 NY Rochester, ad	2207 CHAY 93.1 ON Barrie, nx 1040
1855 WVOR 100.5 NY Rochester, ad	2216 CFMP 101.5 ON Peterborough, ad 1140
1856 CFLY 98.3 ON Kingston	
1859 WKSU 89.7 OH Kent	7/19 tr
1859 WGUC 90.9 OH Cincinatti, ID	1330 KBEK 107.3 MO Lexington, ads, k 280
1905 CING 107.9 ON Burlington, nx, wx	1334 KAOL 101.1 MO Carrollton, ID 305
1908 WJZZ 105.9 MI Detroit, j	303
1916 CJET 101.1 ON Smith Falls, mentioned	7/21 tr
that CJET was sister station of CKUE and	1200 KELE 100.1 MO Aurora, ID 195
frequently IDed as CKUE	1206 KMOE 92.1 MO Butler, wx, ad 210
1922 WKKW 106.5 WV Clarksburg, ID k	
1936 WCLG 100.1 WV Morganstown, ad	7/23 tr
1940 WWWW 106.7 MI Detroit	1935 KRDF 98.3 TX Spearman, ABC nx, ID
WMZQ 98.7 DC Washington	cont.

BOTTOM THE BA	Duni	SEPTEMBER, 1980
7/26 Es 0900 WFLS 93.3 VA Fredericksburg 0900 WFFW 89.3 DC Washington 0905 WASH 97.1 DC Washington, wx 0935 WMFR 88.1 SC Sunter 0936 WFZI 95.1 SC Charleston 0938 WZZW 103.1 GA Augusta, ID 0941 WEAW 101.7 SC Barnwell, ad 0944 WJEW 103.1 SC Hampton 0946 WDZD 93.5 NC Shallotte, ID 0954 WFOX 97.1 GA Gainesville 0955 WBEU 98.7 SC Beaufort 0957 WCEW 90.9 SC Charleston	1060 1105 1030 890	7/26 Es cont. 1045 WSRZ 102.5 FL Sarasota 1060 1047 WLYF 101.5 FL Miami 1230 1049 WQIK 99.1 FL Jacksonville 990 1108 WCKS 101.1 FL Cocoa Beach 1110 1116 WRNB 89.3 FL Boynton Beach 1118 WHRS 90.7 FL Boynton Beach, ID  7/28 Es 2025 WINZ 94.9 FL Miami Beach, ad, "Zeta 4" 2030 WKQS 99.9 FL Boca Raton, wx, ID, m 2201 WGH 97.3 VA Newport News, ID, cs 2214 WFVA 95.3 VA Petersburg, ID, k
1000 WXTC 96.9 SC Charleston 1003 WJCT 89.9 FL Jacksonville	1035 990	7/30 tr
1005 WAFT 101.1 GA Valdosta 1017 WDBO 92.3 FL Orlando, ID, m 1021 WGYL 93.5 FL Vero Beach 1030 WWFM 94.1 FL Lakeland	1070	0931 KRGK 104.9 MO Carthage, ID, nx, \$ 170   1003 KCTO 103.1 LA Columbia, ID, g, 400   "Gospel 103", weak   1027 KNIF 95.3 TX Gilmer, ad, ID at 1031
1032 WFLA 93.3 FL Tampa	1040	Other stns in, relogs, from ne TX, nw LA on up to north central MO and KS City well in.

The July 17 Es was a dandy, but the June 18 super Es was a good deal better in my case. Totals have now swelled to 1150 from 47 states. Tr conditions really wound down since mid July, and former Hurricane Allen along with a front in the area have not helped things to any noteworthy extent as of this writing. WHCM of Mt. Washington, NH at 1470 miles is actually my furthest Es catch, not Edmonton, Canada as indicated last month. It sure has been a great season in these parts. I guess those atmospheric gremlins who delight in throwing monkey wrenches in the great DX machines in the sky had to take a breather, hi.

I noticed in one or two reports that out of date call letters were listed. I didn't have time to check and correct old call letters with this being the 2nd biggest SFM ever. Surely by now, every FM DXer should be using the newest FM Atlas.

My thanks goes to Bob Seybold, host, and those who participated in the '80 WTFDA convention, which I attended. Until next month, 73. DB

REPORT YOUR FN DX TO THIS COLUMN IF YOU'RE FROM: AL AR AZ CA CO DE FL GA KS KY LA MD MS NC OK SC TN UT VA & WV.

#### EASTERN TV DX (continued from page 18)

June 20, 1910 Dean Martin western movie on 4, 1914 Reinker's ad, 1201 W. Walsh; Keskus (?) County Fair, 1918 end of adstring! from Thunder Bay, 1927 CHFD-4 Big Movie slide; awful big bunches of ads every few minutes; thank god for NAB 1932 on 3, Porcupine Mall and South Porcupine ad=mice clues, who can ID? 1959 WJNN-3 Escanaba MI ID. \*June 22, 2112, Odessa ads in Big 2 News (and weather), so KMID Midland TX. 2128 Big 2 News Update, 2130 into Tales of the Unexpected (a very good syndicated series--watch for it!). 2137 Great Bend J.C. Penney so KCKT-2. June 28, "Canada" ad same offset, same direction as WRCB-3, so Mexico (where Canada is a brand of shoe); 1601 net-13 ID on 4, so Merida, Yucstan likely; 1608 on 4 ABC Wide World of Sports. 1635, on 3, full color bars, about 15 kHz offset to WRCB, still going at 1650, 1700. 1729 KDIH-3 Duluth MN ID. 1731 on 3, CBC sports opening; 1758 CBC French NNW, 1759 CBWFT ID. 1830 KXJB-4 ID. 1800 and afterwards "FH" or Food for the Hungry program with 800 number, Arizona address, on ch. 4. 1931 KDLO-FM-97 promo on 3, so KDLO SD; 2000 on 3, Keloland Newsbreak.

July. Finally some tropo! July 7, 2205 CBS on 2 with WV political ad! No 2s there, so I think it must have been KDKA Pittsburgh PA, which gets into parts of WV. WSAZ-3 WV in; At 2222 on 22 (!) a non-net movie, so Pittsburgh's indie; at 2223 on 2, an ad for something in Dalton GA, but I still think KDKA; 2228 on 22, Mickey Mouse Disco, Pittsburgh; 53, movie, Pgh's other indie; 2234 on 40, news, Pittsburgh stock market, that other new suburban indie I've reported before. Also at 2234, NBC to W/SW, likely WOWL-15 Florence AL. At 2241 noted ABC to north on 12, same offset as WDEF; WBOY Clarksburg WV likely; and CBS-8, WCHS Charleston WV likely. At 2300 on 22, Super Pittsburgh ID. 2301 on 7, Wheeling mailorder, so WTRF. July 15, 2100 WDBJ-7 Roanoke Va in all evening; also PBS-15, so WBRA. Around this time my rotor control on the UHF antenna conked out after a very close lightning strike. July 18, big highband Es opening, see above. July 22, 2100 CKOS-3 ID; 2234 WLBZ-2 ID over WNGE semilocal. July 28 2200, KDUH-4 NE with Newsline Update; PBS-3 in earlier.

Fred Nordquist 7945 Boxford Road Clay, NY 13041

FRED	PROP	CALL	LOCATION	MILES		LOCI	FREO.			LOC	CATION	MILES	DXER	LOC
38.1	Es		TX Lubbock		F. No	NY	90.9	Es			Warrensburg			CA
-	Tr		Guatemala, Guat	1125	M.Da	FL		Tr			Cedar Falls			NY
	MS		IA Des Moines		G.Ha	TX		MS			Warrensburg			
	Au		MO Pt Lookout		J.Eb	MN		Au			Cedar Falls			ND
8.3	Es		TY Keene	1380	J. P4	CA4	91.1	Es			Houghton		G. Ha	TX
-	Tr		TX Keene	930	M.Da	FL		Tr			Jacksonvill			TX
	" MS		WI Colfax	855	L.Vo	VA		MS			New Brighto			TX
	Au		NY Syracuse		A.Bo	IL		Au			Vincennes		F.Mc	NI
8.4	Es		Guatemala, Guat			TX	91.3	Es			San Juan		C.Ho	OF
8.5	Es		DC Washington			CO	0.000	Tr			Miami		G. Ha	T2
	Tr		GA Atlanta		G. Ha	TX		MS			Highland	740	L.Vo	V
	MS		NC Winston-Sal			TX		Au			Syracuse	525	R.Br	M
	Au		DC Washington		J.Eb	MN	91.5	Es			New York			NI
8.6	Es		D.R. Santo Dom			FL		Tr			Tallahassee			T
8.7	Es		TX Houston		J.Pi	CA<		MS			Suring		G. Ha	T
3.1	Tr		Hond. Tegucig	1035		FL		Au	WRPI				F.Me	M
	MS		WI Madison		G. Ha	TX	91.7	Es			Worthington			C
	Au			685		ND	7-11	Tr			Stillwater			M
8.8	Es		Guatemala, Guat			TX		MS				880		NI
0.0	Tr		Guatemala, Guat			FL		Au			Stillwater		R.Br	M
8.9	Es			2000		CA	91.9	Es				1725		C
0.9						FL	74.07	Tr			Carbondale		G. Ha	T
	Tr		DF Mexico City					MS			Rib Mountai			
	MS		TN Chattanooga			TX								L
	Au		TN Chattanooga		F.No	NY	02.0	Au			Carbondale		F.Mc	N
	Es		ES San Salvado			TX	92.0	Es			Victoria, Ta			0
9.1			ME Houlton			FL	92.1	Es			Mexico City			CI
	Tr		Jal.Guadalajar	a1480	M.Da	FL		Tr			Hayward		R.Co	01
	MS	None						MS			Racine	715	R.Co	O
	Au		KS Wichita			MI	00 15	Au			Sun Prairie			П
9.2	Es		Tampico, Tams		G. Ha	OK	92.15				ena, Cuba	1330		0
9.3	Es		MO Kansas City			BC	92.3	Es			Orlando	1740		NI
	Tr	WPCS	FL Pensacola		R.Br	MI		Tr			Orlando		G.Ha	T)
					C.Ho	OH		MS			Montgomery			M
	MS		WI Chilton		G.Ha	TX		Au			Portland	1030		NI
	Au	WCAL	MN Northfield		F.Me	MI	92.5	Es			Panama City			NI
9.4	Es	TGD	Guat. Quetzalt	1095	G. Ha	TX		Tr			Pasadena		R.Br	MI
9.5	Es	KWGS	OK Tulsa	1425	J.Je	CA<		MS			Dallas		J.Je	CA
	Tr	WMOT	TN Murfreesbor	0 840	G. Ha	TX	100	Au	MMHE	OH	Toledo		F.Mc	NI
	MS	WNIU	IL DeKalb	1035	G. Ha	TX	92.7	Es			Alameda	2375	M.Da	FI
	Au	WPKN	CT Bridgeport	790	A.Bo	IL		Tr	CKSO	ON	Sudbury	610	D.Mo	I/
9.6	Es	TGDX	Guatemala, Quat	1130	G. Ha	TX		MS	WDUX	WI	Waupaca	430	P.Sa	01
9.7	Es		MA Boston		F.Mc	ND		Au	KBRX	NE	O'Neill		F.Mo	NI
770	Tr		FL Miami		G. Ha	TX	92.9	Es	WSCO	MN	Duluth	1640	J.Je	C
	MS		TX Denison		L.Vo	VA		Tr			Mobile	890	N.Di	MI
	Au		MA Boston		A.Bo	IL	108				Atlanta		G. Ha	TY
9.9	Es		FL Jacksonvill			ND	1	MS			San Antonio			OF
	Tr		FL Jacksonvill			TX	100	Au	WVNY		Burlington		A.Bo	п
	MS		WI Brule		L.Vo	VA	93.1	Es	KAMA		TI Paso	1780	N.Dt	MD
	Au		WI Brule		F.Me	MI	,,,,,	Tr			Syracuse		B.EL	M
0.0	Es	YSU	ES San Salvado			TX	400	MS			Sturgis	1175		L
						FL		Au	WDRO	MT	Detroit		J.Eb	M
0.1	Es		CA San Luis Ot	860			93.2	Es						
	Tr		TX Houston		J.Co		7,114	Tr			Monterrey			M
	MS		IL Chicago		G.Ha		93.3	Es			Monterrey		G. Ha	T
	Au		IL Chicago		F. No		73.3		KTEN			1435		M.
0.3	Es		BCN Tijuana		M.Da	FL	Men	Tr	WFLA		Tampa		G. Ha	TX
	Tr		WI Holmen		L.Vo			MS			Port Arthur			O
	MS		WI Holmen		G.Ha	TX	00 -	Au			Youngstown		J.Eb	M
	Au	WBCL	IN Ft.Wayne		F.Mc	ND<	93.65	Es			Parsons	1440		CA
0.5	Es	KXCV	MO Maryville	1500	W.Ry	BC.	5/10	Tr			Hancock		F.Mc	NE
	Tr	WKAR	MI E. Lansing	930	R.Wo	LA		MS			Clinton	940	P.Sa	ON
	MS		MO Maryville	970	F. No	NY		Au	WLIH	WI	New London	340	A.Bo	II
	Au		MO Maryville		L.Vo		93.7	Es			San Juan	2275		OK
0.7	Es		MO Joplin		J.Je		7.4	Tr			Houston	1090	C.Ho	OH
	Tr		TN Collegedale		G. Ha	TX	1	MS			Lawrence	1475		OK
			WI Delafield		W.Bi	FL		Au			Winner		A.Bo	IL
	MS													

93.9	PROP	CALL LOCATION	MILES DXER,L	od FREQ	PROP	CALL LOCATION WBGW ME Bangor WEZB LA New Orleans	MILES DERE L
	Es	KPOL CA Los Angeles	s 2145 M.Da F	L 97.1	Es	WBGW ME Bangor	1400 M.Da F
	Tr	WBUS FL Miami Beac	1155 G.Ha T	X	Tr	WEZB LA New Orleans	865 R.Br M
	MS	WWWL FL Miami Beach	1045 R.St I	N	MS	WALT MS Meridian	HRS P.Se O
	Au	KKLS SD Rapid City				WCOW WI Sparta	595 F.Mc N
94.0	Es		1375 J.Eb M			WIOD FL Miami	1585 B.KL M
94.1	Es	KCLK WA Clarkston				KEEZ TX San Antonio	1100 R.Br M
	Tr	KEZQ AR Little Rock			MS	KPAT SD Sioux Falls	1015 F. No N
	MS	KBPO TX Beaumont				WIBW KS Topeka	545 F.Me N
	Au	WQXI GA Smyrna	585 R.Br M	I 97.5	Es	KINT TX El Paso	
94.3	Es	KVFM CA San Fernan	to 1495 D.Mo I		Tr	WPCV FL Winter Haven	
	Tr	WOWW FL Riviera Be	ach 1155 G. Ha T	X			1140 A.Bo I
	MS	WUUU TN Oak Ridge	1220 F.Mc N	D		WNCQ NY Watertown	
	Au	CFRW MB winnipeg	745 R.Br M	I 97.7	Es	KPUP TX Kingsville	1460 P.Sa 0
94.5	Es	KLEF TX Houston	1610 J.Je C	A	Tr	XHGL Merida, Tucatan	
	Tr	KSMB LA Lafayette			MS	WVOP GA Vidalia	835 F.No N
	MS	KROK LA Shreveport			Au	CHOM PQ Montreal	680 R.Br M
	Au	WRVQ VA Richmond			Es	XETIA Guadalajara, Ja	1 2020 R.Se N
94.7	Es	KYTN ND Grand Fork				WJNO FL Palm Veach	
SUNTANA.	Tr	KTTS MO Springfield			MS	WNCI OH Columbus	
	MS		1065 G. Ha C		Au	WNCI OH Columbus	
	100	WKXI MS Jackson	tie F.No N		A COLUMN TO SERVICE	WTOF OH Canton	2015 F.Ad 0
	Au	WPTF NC Raleigh	510 F.Me M		Tr	KSLQ MO St. Louis	
94.8	Es	TGDX Guatemala, Gu				WLEX KY Lexington	
94.9	Es	WINZ FL Miami Beac	1935 F.Mc N		Au	KUDL MO Kansas City	550 F.Me N
200	Tr	WOCN FL Miami Beach	1160 G.Ha T			WSUX DE Seaford	1460 G.He T
	MS	WPCH GA Decatur			Tr	CBW MB Winnipeg	849 A.Bo T
	Au	KFMG IA Des Moines			MS	None	or, Ribo a
95.0	Es		nuda 1375 R.Br M		Au	CKLC ON Kingston	690 A Bo T
95.1	Es	KRDO CO Colorado S				KPAC TX Port Arthur	
22.2	Tr	WJAX FL Jacksonvil				KLAZ AR Little Rock	
	MS				MS	KQKQ IA Council Hluff	
	Au	WLST WI Marinette KICT KS Wichita			Au	WSB GA Atlanta	
05 2	120V						
95.3	Es	WPVA VA Petersburg			Es	TGHR Guatemala, Guat.	
	Tr	WILN FL Apopka	1035 G. Ha T	X 98.7		KBBC AZ Phoenix KNUS TX Dallas	
	MS	None	207 0 0 0		Tr		
or 1.	Au		375 S.Re C		MS	WMDE NC Greensboro	1000 G.Ha 0
95.4	Tr	XHOX Tampico, Tams			Au		550 M.Bu C
95.5	Es	KOKE TX Austin					1360 F.Me N
	Tr	WTVY AL Dothan	800 G.Ha T	X	Tr	WBCM FL Tallassee	
		KOKE TX Austin	tie W.Bi F		MS	WSPA SC Spartanburg	
	MS	KBCM IA Sioux City			Au	WSPA SC Spartanburg	
	Au	KBCM IA Sioux City					2075 M.Da F
95.7	Es	WKEZ VA Norfolk	1510 F.Mc N		Tr	KODA TX Houston	//
	Tr	KXXA AR Little Rock	1040 F.No N	Y	MS	WQBK FL Jacksonville	1175 F.Eb M
	MS	KCOM MT Scobey	1140 J.Je C		Au	KGVM ID Idaho Falls	595 F.Me N
	Au	WPTW OH Picqua	465 F.No N	Y 99.3	Es	WPLZ VA Petersburg	1440 F.Mc N
95.9	Es	WISZ MD Glen Burnie	1390 F.Mc N	D	Tr	WEZY FL Cocoa	1080 G.Ha T
	Tr	KRSL KS Russell	665 G.Ha T	X	MS	WMFC AL Monroeville	960 J.Eb M
	MS	CJFM PQ Montreal	845 A.Bo I	L	Au	WAEW TN Crossville	300 A.Bo I
	Au	KDHL MN Faribault	480 F.Mc N		Es	WLOL MN Minneapolis	
96.1	Es	WKTZ FL Jacksonvill			Tr	WQYX FL St. Petersbur	
	Tr	WKTZ FL Jacksonvill				WGAY DC Washington	
	MS	KFMC UT Provo	1050 G.Ha T		Au	WKDQ KY Henderson	570 J.Eb M
	Au		590 R.Br M			WOOF GA Dothan	1450 F.Me N
96.3	Es	KFSG CA Los Angeles			Tr	WMC TN Memphis	
	Tr				MS	WMNI OH Columbus	
		KLLL TX Lubbock				WMC TN Memphis	590 F.Me M
	Ave	WMYQ FL Miami	1050 A.Bo I				1645 R.Se N
96.5		WJR MI Detroit	540 J.Eb M			KTSM TX EL Paso	
		WMDD PR Fajardo	1990 A.Bo I	-	Tr		1170 R.Br M
		KIOU TX Corpus Chri				WVAF WV Charleston	895 G.Ha C
		KIOU TX Corpus Chri				KFAB NE Omaha	550 F.Me N
96.7		WTIC CT Hartford	555 F.Me M			WIVE VA Ashland	1420 F.Me N
100 W. F.	Es	KGTN TX Georgetown		AC		KMHL MN Marshall	565 G.Ha C
-	-	WSTC CT Stamford	tie R.Co O	K		CBRX AT Lethbridge	955 J.Je
	Ir	WFOB OH Fostoria	580 B.EL M	N<		WIVE VA Ashland	555 R.Br M
		None			Es	KIQQ CA Los Angeles	2150 M.Da I
	MS						
	Au	JJCL IL Joliet	345 J.Eb M	N		KBER TX San Antonio	955 M.Da F
	Au Es	JJOL IL Joliet KVMV TX McAllen	345 J.Eb M 1465 B.El M	N		KBER TX San Antonio KBOX TX Dallas	1100 F.Mc N
96.9	Au Es Tr	JJCL IL Joliet	1045 G. Ha T	N N<	MS		

FIL WA	VITO	TICS	-	100745				TANCE				APTON	WIT DO	DVED TO
FREQ	PROP	CALL	LOX	Norfolk	MILES	DXKR	LOC	PHOD I	HOP	CALL	LOC	ATION	MILES	DXER LO
100.5	Es	WCMS	TT	Jacksonville	810	F Mo	MD I			None				
				Huntington				104 1	Au			Houston	+100	T D4 C4
	Aus	WAGE	TN	Kokomo	605	P.Me	ND<	104.1	25	PRDD	TA	Houston	080	D P- WT
100 2				Патра								La Grange		
100.7				Jackson					Au	MTWA	TH	Evansville	1025	
				Ft. Lauderda				104.3		MIDDO	CA	Augusta	1/1/10	J.Eb MN F.Mc ND
	Au	KGRT	NE	Omaha	550	F.Mc	ND	104.5		MADDA	AT	Athens	330	R.Sa TX
100.9	Ee	KSRT	CA	Tracy	1420	G. Ha	TX			MOMO	MT	Detroit	885	G.Ha OK
10017	Tr	WOST	AT.	Union Springs	720	N.Di	MD		An	MONC	MT	Detroit	245	F.Mc ND
	MS	None						104.5				W. Palm Beach		F.Mc ND
	Au	KOAD	MN	Luverne	420	F.Mc	ND	104.5				San Antonio		
101-1	Es	CEMI	BC	New Westmins	1815	R.Br	MI			KEYT.	TY	San Antonio	1100	
	-			Houston					Au	WIST	OH	Wooster	635	J.Eb MN
				New Orleans				104.7		WREO	FI.	Татра	2260	J.P1 CA
				Green Bay						WRRO	M.	Tampa	990	P.Dy TX
101.3	Es	WWDM	SC	Sumter	1480	F.Mc	ND	di =3		KRES	MO	Moberly	825	G. Ha NM
77.77	Tr	KMIO	TX	Sinton	900	M.Da	FL	BM 750		KIOV	SD	Sioux Falls	520	A.Bo IL
				Wichita				104.9				Donaldsville		F.Me ND
				Rochester								Circleville	680	B.EL MN
101.5				Brownwood				DE VE					-	
(B. 100)				Miami				No. of the	Au	None				
	MS	W.TBA	WI	Madison	-770	S.We	PA	105.1	Es	WAVA	VA	Arlington	1390	G.Ha TX
	Au			Marietta				100		WWQS	FL	Arlington Orlando	1045	G.Ha TX
101.7	Es	KTLQ	OK	Tahl equah	1415	J.Pi	CAC					Coral Gables		R.Sa TX
	Tr	WIGR	SC	Myrtle Bch	620	S.Re	CT	12. 115	Au	WSOM	OH	Salem	680	J.Eb MN
		None		Nectable 3 To 1				105.3	Es	WDEN	GA	Macon	1415	F.Mc ND
	Au	WILS	MI	Lansing	295	A.Bo	IL	A1 11		WVSL	LA	Slidell	840	R.Br MI
101.9	Es	WCIE	MA	Falmouth	1580	F.Mc	ND	TO SEPTEMBER	MS	KXKX	TX	Dallas	1100	F.Mc ND
	Tr	WWL	LA	New Orleans	905	C.Ho	OH	0.3 -3.0	Au	WDAS	PA	Philadelphia	605	R.Br MI
	MS	KFMQ	NE	Lincoln	845	J.Eb	MN	105.5	Es			Tappahannock		F.Mc ND
	Au			Wausau						WGUL	FL	New Port Rich	965	G.Ha TX
102.1	Es	KLYX	TX	Houston	1485	J.Pi	CA	2.7	MS	TMEW	TN	Sparts	740	J.Eb MN
	Tr	KLYX	TX	Houston	980	R.Br	MI		Au	WXEZ	OH	Sylvania	280	A.Bo IL
	MS	KEEY	MN	St. Paul	1025	R.Sa	TX	105.7	Es	KHCB	TX	Sparta Sylvania Houston	1485	J.P1 CA
	Au			Ft. Worth				17 44	Tr	WOOD	MI	Grand Rapids	915	R.Wo LA
102.3	Es	WWSR	VI	St. Albans	1380	F.Mc	ND	11 100	MS	KHCB	TX	Houston	1065	J. Eb MN
	Tr	KBIC	TX	Alice	970	M.Da	FL	100	Au	KHCB	TX	Houston	1050	J.Eb MN
	MS	None						105.9	Es	WXRA	VA	Houston Woodbridge	1380	G. Ha TX
				St. Albans		R.Br	MI		Tr	WAXY	FL	Ft. Lauderdale	e1155	G.Ha TX
102.5	Es	WISE	FL	St. Petersbu	1415	B.EL	MNK			WLAC	TN	Nashville	1120	F.Mc ND
	Tr				1085					KBPI	CO	Denver Guelph Denton Corvallis	685	J.Eb MN
	MS			Pittsburgh		J.Eb		106.1		CJOY	ON	Guelph	1415	G. Ha TX
	Au			Buffalo		J.Eb			Tr	KDNT	TX	Denton	935	M.Da FL
102.7	Es.			San Antonio		P.Sa		12.0	MS	KL00	OR	Corvallis	480	J.Je CA
	Tr			San Antonio				7.0	Au	KDNT	TX	Denton	655	A.Bo II
	MS			Richland		G. Ha		106.3	Es	KTON	TX	Helton	1345	J.Pi CA
E of				Richland		F.Mc		12 0		KPAN	TX	Hereford	1250	M.Da FI
102.9				Houston				SK 20		None				
	Tr			Houston				162 10	Au	KAMO	WY	Cheyenne	940	R.Br MI
				Columbus				106.5		WSFL	NC	Cheyenne Bridgeton Washington Salisbury	1545	F.Me ND
				Minneapolis				12. 4		WPML	IN	Washington	975	F.Mc NI
103.1	Es	KSRI	CA	Santa Monica	1315	F.Mc	ND	73. 4	MS	WSTP	NC	Salisbury	965	G.Ha OF
				Augusta		R.Le	LA	35.14		ADFR	MI	Marshileld	595	F.MC NI
	MS	None		mela Mar Bit				106.7				Manassas	1380	P.Dy TX
10 46	Au	KJAM	SD	Madison	360	F.Mo	ND	65.75	Tr			Ft. Lauderdal		R.Sa TX
103.3	Es	WESE	VA	Tasley	1485	F.Mc	ND	200 14	MS			Detroit	885	G.Ha OF
				Nacogdoches				1	Au	KAZY	CO	Denver	700	J.Eb MY
				Wichita Fall				106.9	Es	KNRO	TX	Conroe	1475	J.P1 CA
				Buffalo		A. Bo		12. 3	Tr			Conroe	1070	C.Ho OF
				Denver		R.Se		18.4	MS	None				
				Ft. Lauderda				1	Au		IL	Peoria	560	F.Mc NI
15,00	MS	KOA	CO	Denver	895			107.1				Greenville	1320	G.Ha TX
	Au	KOA	CO	Denver	695	J.Eb	MN	pool 1	Tr			Ames		C.Ho OF
103.7	Es Es	WEZS	VA	Richmond	1425	F.Mc	ND		MS			Hutchinson	620	G.Ha OF
	Tr			Little Rock					Au	None		Orange Control of Control	137	
				Dallas	1165			107.3				Poteau	1440	J.Pi CA
	Au			Atlantic	570			1	Tr			Anderson	1000	
103.9				Crete		J.Je		1 2	MS			St. Petersbur	A 1 4 4 1	
				Cleveland		M.Da			Au			Elyria		J.Eb MN

#### ALLTIME FM DISTANCE RECORDS

MILES DXER.LOCIFREQ PROP CALL LOCATION

FIGURE FROM CALIFORNIA	A COMMUNICATION TO LEGISLA &	Man Lateral Trees.	Particular Street Control of the Con	A COURT COLD STREET TOTAL BAD OF
107.5 Es WBYO PA Boyertown	1500 G.Ha	TX 107.7 MS 1	KWIC TX Beaumont	1185 P.Sa ON
Tr WDWQ CS St. George	960 D.Bu	OK Au I		
MS WTRF WV Wheeling	915 G.Ha	OK 107.9 Es V	WWEL MA Medford	1440 D.Bu OK
Au KPPL CO Lakewood	705 J.Eb	MN Tr	WIRK FL W. Palm Beach	1150 G. Ha TX
107.7 Es WBIV NY Wethersfield	1450 P.Dy	TX MS V	WBT NC Charlotte	950 G. Ha OK
Tr WNCT NC Greenville	835 R.Le	LA Au	WAUR IL Aurora	815 M.Bu C7
Guide to DXer initials/location				
Frank Aden, Bend OR	lenn Hauser, V	on Ormy TX	Jim Pizzi, Santa Ma	aria CA
Waldo Bishop, Tallahasse FL	at wood E	inid OK	Orcutt 0	A4
Andy Bolin, Charleston IL			Shelby Remington, N	New Haven CT
Russ Brown, St. Joseph MI				
			H Rick Samford, Burne	
	John Jefferson,		Peter Sawatzky, Wat	
John Combs, Orlando FL	The control of the co		< Robert Seybold, Dur	
Robert Cooper, Okla. City OK	Ron LeHlanc, Ma	rrero LA	Ken Simon, Lake Wor	rth FL
	lint McAuliffe		Richard Steinberger	, Hudson MA
Neil Dickerson, Sharptown MD			Ralph Strobel, Muno	ie IL
			Larry Yogt, Springs	Mield VA
John Ebeling, Bloomington MN			Steve West, Haverto	
Prosit MN<			Steven Wiseblood, S	
Bruce Elving, Adolph MN			Richard Wood, Bator	Rouge LA
Duluth MN<		Clay NY	Medic	
Joseph Fela, S. Plainfield MJ			v	04 NO

## TVSIRIUS

Michael L. Hogan 13910 Chippewa Ave. Apartment 1 Burnham, Illinois 60633 Deadline: the 10th Phone# 312-868-4392

DXer, Location	Total	UHF	XLTR	Es	MS	Au	YB	As of
Bob Seybold, Dunkirk NY	794	350	70	180	30	6	50	7/79
Bill Draeb, Kewaunee WI	724	326	65	181	113	1	53	5/79
Marvin Shults, Toulon IL	492	203	27	123	26	0	65	
Don Ruland, Kenosha WI	472	222	29	87	31	0	71	7/79
Tom Yingling, Jr. Baltimore MD	425	135	18	181	30		69	4/79
Robert Kramer, Chicago IL	388	160	10	90	15	0	??	
Paul Petosky, Trout Lake MI	348	41	44	129	5		54	
Fred McCormack, Des Lacs ND	313	16	22	205	45	0	63	
Jim White, Waukesha WI	301	87	2	79	16		64	4/79
Mike Reid, Willowdale ON	288	93	12	80	6	0	??	5/79
Frank Wheeler, Erie PA	275	57	1	121	5		55	7/80
Michael Hollis, Ft. Campbell KY	275	116	2	14		0	78	4/79
B.W. Battin, Duluth MN	251	109	0	68	3	0	76	
Bob Langridge, Durant IA	219	126	16	31 45	0	0	77	7/80
Mike Scheel, Davenport IA	198	96	9	45	0		72	4/79
Jim Pizzi, Orcutt CA	197	48	23	113		0	63	4/79
Fred Nordquist, Clay NY	194	59	??	68		0	69	10/79
Ed Brindle, Latrobe PA	1.69	53 42	0	53	1		75	5/79
William Hepburn, Niagara Falls ON	163	42	2	60	0	0	76	4/80
Michael Hogan, Burnham IL	153	84	1	32	0	0	73	8/80
Neil Kazaross, Pawtuckut RI	150	??	?	??		?	??	7/80
Steven Shaffer, Hammond IN	128	34	0	66	0	0	77	
Robert Goodman, Chicago IL	123	66	0	32	0	0	76	7/80
Dave Hascall, Fortville IN	72	22	0	33	0	0	74	7/79
Robert Ross, London ON	51	21	8	5	0	0	77	4/79

The above listing grew by a few reporters since June 1979; but it would be much better if the list was twice as big. So, let's get with it and send in your totals; It really takes a few minutes. For those of you that sent in totals for two locations, I only listed the location with the greater number of stations seen. If you want both of your listings included, just drop me a note and I'll oblige you. The October VUD will list DXers by the # of political units seen. In the December VUD an update of new distance records will be listed. So go out there and do your best.

43

Baltimore, MD 21221 phone 301-574-2714 IN SEARCH OF PSB..... This month's feature will focus in on the Maryland State Department of Natural Resources fire and parks frequency network. I am sure this will be helpful in at least Maryland. Lack of other material makes this

Maryland Department of Natural Resources

necessary.

151.46 Channel 1 Fire Operations 151.325 Channel 2 Park Rangers and Operations

East Caroline, Somerset, Wicomico, Worcester

West Allegheny, Fredrick, Garrett, Washington

East + West Regions

Donald L. Blevins 1715 Earhart Road

151.355 Channel 4 Fire Operations 151.415 Channel 5 Park Operations and Services

North Region

North Baltimore, Cecil, Harford

151.25 Channel 6 Fire Operations 151.31 Channel 7 Park Rangers and Operations

South Region

South Anne Arundel, Calvert, Charles, Howard, Prince Georges, St. Marys

Location	Frequency	Call
Dares Beach	151.31	KUD 718
Annapolis	151.31	KJP 531
Catonsville	151.31	KGH 411
Florence	151.31	KZO 350
Germantown	151.31	<b>KQP 646</b>
Jonestown	151.31	KFI 531
Laurel	151.31	KJP 530
Leonardtown	151.31	KDX 420
Lusby	151.31	KZO 351
Marriotsville	151.31	KAQ 782
Point Lookout	151.31	KJP 532
Rison	151.31	KQP 642
State Forest	151.31	KDS 643
Anne Arundel County	151.325	KGA 540
Berlin	151.325	KJP 525
Big Pool	151.325	KQP 649
Burkittsville	151.325	KTS 632
Cotoctin Furnace	151.325	KRM 935
Crisfield	151.325	KQP 643
Cumberland	151.325	KXK 338
Denten	151.325	KQP 645
Fredrick	151.325	KBU 666
Fredrick	151.325	KGA 556

	151.325			KRP 883	
dilburn Landing	151.325			KWF 683	
fount Lena	151.325			KQP 650	
akland	151.325			KRM 934	
Dakland	151.325			KRU 978	
Queen Annes	151.325			KZE 767	
Snow Hill	151.325			KJF 524	
Thayerville	151.325			KGA 544	
Thurmont	151.325			KKI 501	
Chevy Chase	151.34			KXX 541	
Baltimore	151.355			KGA 548	
Bel Air	151.355			KJP 528	
Chestertown	151.355			KIA 918	
Elkton	151.355			KZJ 887	
Ellicott City	151.355			KGA 539	
Madonna	151.355			KGA 548	
Northeast	151.355			KGA 553	
Chase	151.415			KJP 526	
Cub Hill	151.415			KVV 861	
Elkton	151.415			KZJ 887	
Forest Hill	151.415			KLW 353	
Level	151.415			KWF 935	
Wortheast	151.415			KDK 778	
Anne Arundel County	151.355			KGA 540	
Bel Air	151.415			KJP 528	
Madonna	151.415			KGA 548	
Allegheny Airways	460.70		412	Baltimore	M-27- 0
Eastern Airlines	460.75	KLN	592	Baltimore	Airline Operations
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KGC 422

Columbia

Howard Security

461.975

TV unID's

Bill Fahber 536 Atlantic Street Bridgeton, NJ 08302 1980 unID's

Thu Jun 19 Es ch 3 1559 EDT--"Somerset Maughnum" in fancy print 3 1600 EDT--promo for "M\*A\*S\*H\*" 6:30 PM Mon-Sat ch

3 1608 ED"--"Gilligan's Island" 3 1608 EDT--"M\*A\*S\*H\*" PTA: Kansas ch ch 1612 EDT-- "Bonanza"

ch 2 1901 EDT--"Dick Cavett Show" Fri Jun 20 Es ch PTA:Nebraska ch 2 1900 EDT -- "Oral Roberts Special" 2204 EDT -- "Gibsons Discount" ad ch

Sun Jul 6 Es ch 1100 EDT -- "Old Time Gospel Hour" PTA:NE,SD,MN ch

4 1213 EDT--old "Juperman" series 2 1248 EDT--Circle-wedge TP (Most likely KGFE- SL) 2 1828 EDT--end "Dick Cavett" Mon Jul 7 Es ch

1831 EDT--"Allen's" Ad-Ø offset 1833 EDT--"Tic Tac Dough" + offset ch PTA:LA.OK.MO 2 1957 EDT-- "Eusche Subaru" ad ch

3 1839 EDT--"M\*A\*S\*H\*" Thu Jul 10 Es ch ch

ch 3 1844 EDT -- "Tic Tac Lough" + or - offset

ch 4 1847 EDT-- "PM Magazine" ch 2 1848 EDT -- "Happy Days" reruns

Tue Jul 15 Tr ch 56 0109 EDT--Spanish station-same program as WXTV (This is a new SIN translator in Wash-

ington, DC- SL) ch 63 0700 EDT--Faint trace, but definitely a signal (Probably the WAVY-10 xltr in Craddocks-

ville, VA- SL NEWSFIVE Thu Jul 17 Es ch 3 1708 EDT--"Adam-12"

ch 3 1710 EDT--"Muppet Snow" ch 5 1716 EDT--"Hogans Heroes"

ch 4 1719 EDT--"Mary Tyler Moore"

PTA:MN,MO,SD, ch 6 1736 EDT--news, Paul Long reporting - offset ch 6 1801 EDT -- "The Big News"

ch 6 1829 EDT -- "Andy Griffith"

ch 2 1830 EDT--begin "Macneil-Lehrer Report"

ch 2 2040 EDT--"Buffalo Bill and the Indians" movie ch 5 2220 EDT -- "Newscenter 5"

Sat Jul 19 Es ch 2 2339 EDT -- "700 Club"

Fri Jul 25 Es ch 2 2200 EDT--begin "Dick Cavett Show" + offset

ch 4 2214 EDT -- ad "Red Lobster, for the seafood lover in you" poss. KTIV or WHBF PTA:OK,NE

ch 5 2230 EDT -- see drawing ch 3 2358 EDT -- Wrestling match

Sat Jul 26 Es ch 2 0907 EDT -- "Sesame Street" poss. KETS \*\*\*\*\*\*\*\*\*\*

1980 unID's

Tue Jul 8 Es ch 4 2119 EDT -- ATV ad, CFL highlights (likely CJCB in Sydney, NS- SL)

ch 2 2300 EDT--NBC logo followed by "Newscenter" at top of screen-WLBZ?

Sat Jul 20 Tr ch 3 0231 EDT -- "Don Kirshner's Rock Concert" ads for NASA Space Center tours and "PM Magazine"

with Bert \_\_ and Marcia Bradley .Sat Jul 27 Es?ch 2 0730-0830 EDT--Recurrent logo-"2 Country Kidsworld" 

September, 1980

Randy Miltier 1068 Fairview Avenue San Jose, CA 95125 1980 unID's

Mon Jun 16 Es ch 6 1341 FDT--"Donahue"

ch 4 1400 PDT--ad "American Furniture Warehouse" Sat Jun 28 Es ch 4 0615 PDT--cartoon program 

Robert Grant

Sat Jun 2 Tr ch 9 0700 EDT -- "Mid-Canada Television" slide Id'ed as CKNC-9, Sudbury, ON

Sat Jun 30 Es ch 3 1300 EDT--ATV slide

Saul Chernos doubts that this is CKLT, probably CJOX. (I think CJOX is affiliated with the Newfoundland Broadcasting Company, if it is also a member of ATV, I'm not sure. Does anyone have an up-to-date ATV station list? - SL)

Mon Jan 7 Es ch 3 1155 EDT--"Mr. Dressup"

This program is only on CBC. (So maybe CBHT- SL)

Above Id's sent in by Saul Chernos. 

Mark and I would like to thank Bob Seybold for a great convention, Fred McCormack for forwarding sandy Miltier's unId's, and Les Prus for more help with TV Guides.

Please try to report using the same format you see in the column. Be sure to include day of the week.

Good DX to all.

Scott & Mark













WJBK T



# PHOTOGRAPHING TVDX USING A

## **PRIMITIVE CAMERA**

## by ROBERT KRAMER

Many of you may have desired to photograph your TV DX, but due to the fear that your camera may not produce the results you would like, or to poor results in past tries, you let that DX go by without pictures. Actually any camera, even that old instamatic Aunt Martha (or your family's equivalent) gave you when you graduated from the 8th grade will work. All the camera needs is a flash attachment or built in flash. All cameras (which have no user adjustments) use a shutter speed of 1/30th of a second for flash pictures. This is the same speed as the TV screen scan (1 full image every 30th of a second). This means that your camera will take a full image. All you need to do is put a used flash cube in the built in flash (or flash bulb in the flash attachment). Do not use a good bulb or cube; this will cause a reflection off the TV screen, resulting in a big white blotch in the middle of the picture. Some cameras have a manual adjustment for taking flash pictures. If it does, a used cube is not necessary. Look for such things as "Flash" "F" or "B" around the lens of the camera (be careful that it doesn't say "f", which is how the lens opening is measured). If your camera adjusts, just flip the switch to the flash position and shoot away.

When photographing TV DX with a camera of the type described above, be about 3-5 feet away from the TV set when shooting photos. The reason for this is the camera is not able to focus in closer. It's what we call fixed focus. Because of the lack of focus adjustment, your pictures may not be completely sharp, but they will for the most part be satisfactory. Only the smallest call letters should be unreadable (those are hard for a 35 mm camera to get sharp). You may want to try a close-up attachment to get clearer pictures. Try a large camera store in your area. The cost is very low (about \$2 or so).

The biggest problem you are likely to come across in TV photography is in getting the pictures developed. Nearly every commercial photo lab (Photomat, the neighborhood drug store, etc.) processes the film according to the specifications of the manufacturer. Thus, Verichrome Pan (B&W) film will be processed in D-76 developer at 7 minutes. For normal film this would produce good results. However, TV shots taken with a primitive camera are greatly under exposed, due to the small lens opening on the camera. This means your negatives will be very thin (almost clear, very light, no contrast, very little detail. When it gets to the automatic printer (usually computerized), the negative will be rejected and no print will be made (or probably could be). What is needed is custom processing. This is why I started Tele-Photo Custom Lab. For a price well below a commercial lab, we develop the film using a special developer and varying the development times according to the needs of the individual DXer (through the use of a couple of test rolls). This is not meant to be an advertisement for my photo service. You may try your local drug store,

#### PHOTOGRAPHING TV DX USING A PRIMITIVE CAMERA

but I think you'll find the results much as I described them (by the way, I only can process B&W film). For more info on TV DX photos, write to me at

Robert Kramer 4639 N. Albany Chicago, IL 60625

If you're interested in having me do your processing, shoot a couple of test rolls (non 35 mm users). If there are any prints you want made, tell me which negatives and I will make them and bill you for these only. The test rolls are developed free (as are any photos that will be used for publication in VUD).

#### Some Tips for TV DX Photography

- 1. Make sure your camera is loaded properly. For 35 mm users, check to see that the take up reel has caught (if you aren't sure, it can be checked by taking the camera into a completely dark room, such as a closet. When you open the camera, the numbering will get messed up, but just remember what shot you were on when you opened the camera and add that to what your frame number says when you continue shooting. If it wasn't loaded properly, reload and move it up an extra frame or two--you probably lost the first two shots to multiple exposure). For instamatic and other camera type users, check the number of the exposures shot (in the window where the film number shows). If the number keeps going up, then the film is loaded properly. If not, reload.
- Take your photos only in a completely darkened room. Don't have any lights on. This causes a reflection off the TV screen.
- For 35 mm users, don't rely on a photo meter. Shoot all TV DX photos at f8, 1/30th of a second and use Tri-X or a 400 ASA film.
- Have a minimum of 100 shots in extra film. You never know when a big opening will happen, and you don't want to be without film.
- 5. Shoot more than one shot of an ID slide. You will find (especially if you are using a cheaper camera) that some will come out with more sharpness and detail than others. This even happens with 35 mm.
- 6. Submit your pictures to PHOTO NEWS. Everybody wants to see them.

#### **TECHNICAL TOPICS**



Q: "This may sound crazy, but my FM DX antenna seems to work well on high-band VHF TV. In fact, it seems to be even hotter on channels 7-13 than an all-channel antenna that I have compared with it. Why?"

A: Many DXers have noticed that the best FM antennas also are quite good on channels 7 through 13. The FM broadcast band frequencies from 88 to 108 MHz are the basic reason for this. If you double this frequency range, you come up with most of the 17½ to 216 MHz highband TV spectrum, and thus, a very close relationship. The basis for any good FM DX antenna would be a half-wavelength in the 88 to 108 MHz range; in addition to being resonant around this wavelength, the antenna also exhibits resonance at twice the wavelength. Although it will not have as much gain when operating at twice the wavelength, it still may have more gain than a smaller antenna designed for highband VHF TV. It's not uncommon for a ten element FM yagi to show as much as 6 db of gain in the middle of the highband VHF TV range-much more gain than can be found on some of the cheaper "all-channel" antennas, which always have to compromise gain in favor of wide frequency coverage. Two stacked ten element FM antennas may produce results equal to or better than that of a single highband VHF TV antenna-so if you stack antennas for FM DX, you may also have a good array for highband TV DX.

Q: "I don't see too many FM DXers listing preamps along with their DX gear in VUD. Can you recommend models that give good DX results, such as the UHF low-noise amps used by UHF TV DXers?"

A: The reason that TV DXers like to use low-noise preamps (antenna mounted) for UHF is the fact that UHF TV tuners are not very sensitive, when compared to the average FM tuner. With a good FM tuner, you don't have to worry about the noise figure or gain of the receiver-all you need is a good antenna. In fact, using a broadband antenna-mounted preamp for FM isn't a very good idea in areas with FM locals; your receiver is likely to be so good to begin with, the added local signal from the preamp will just cause overload and cross-modulation problems in places where you never had them before. Unless you live in an area with no local FM, using a broadband preamp is not advisable-unless you have an unusually long run of lead-in. If you want to use a preamp for FM DX, shop around carefully-for DXing purposes, you want a unit which will have a noise figure lower than that of your tuner. Contrary to what many DXers think, the noise figure--and not the gain--is the more important consideration.

Q: "The signal strength meter on my FM receiver is calibrated 0 to 10. The weaker, fluttery signals barely move the needle, and the locals all peg the needle, most semilocals are 7 to 9. Do these numbers have any relation to actual signal strength?"

A: The signal meters on most FM receivers are merely relative signal strength meters--nothing more. There's no real industry standard for these meters, so no two are likely to agree on models made by different manufacturers. Some units have scales of 1 to 5, 0 to 5, 1 to 10, etc. What could be of use to the FM DXer would be a communications receiver type "S-meter"--but no two of these are alike either. Still, such a meter on an FM DX rig could be of use if calibrated in db--that would come in handy when comparing antenna gain, checking front-to-back ratio, etc. Communications receiver S-meters usually reach "S9" at some point around mid-scale, and then are marked in db increments. You can learn to expect a certain level of signal from your semi-local stations under "deadband" conditions, and compare it with improving DX conditions--but remember, all the meter is showing you is relative signal level. You don't need a meter to tell you when a DX station sounds like a local!

# CADX

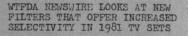
announcing the reformation of CADX (Chicago Area DXers). After nearly 7 years, the club that served the world's DX center is being revived. We will devote ourselves to SWBC, BCB, & TV, with a possibility of FM. The upper Hz section is being handled by none other than WTFDA's own Robert Kramer. In addition, Karl Porth will handle BCB, and the SWBC sections will be handled by an internationally renowned DX staff. The club will be restricted to members living within 150 miles of Chicago. In addition to featuring the outstanding loggings of some of the world's top DXers, there also will be articles about DX topics, with specific applications to the Chicago area. That is the advantage of a local club, we can write our articles and gear our columns to every member. Additionally, our two commercial artists and photo features (by staff photographer Robert Kramer) will make this the best DX publication in the world. The amazing thing, the first two issues are free. That's right, F-R-E-E. All we ask in return is that you contribute regularly. After the first two issues, contributors will be invited to join, noncontributors will not. So, do you live in the Chicago area and want to receive a top notch, professional publication? Then write to Robert Kramer now.

Address inquiries to:

4639 N. Albany Chicago, IL 60625

The first issue goes out 9/15. The Publisher is Mike Nikolich, internationally renowned SWBC DXer, with nearly 200 countries logged.

NEXT MONTH in the V.U.D.



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REPORT ON WTFDA'S 1980 CONVENTION IN DUNKIRK, NY

MORE REPORTS ON GREAT TROPO CONDITIONS IN WIDE AREAS OF NORTH AMERICA

MUCH, MUCH MORE!



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