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DEADLINE: 1st

May 1986

FACTORY NEW! FIRST QUALITY • NO OBLIGATION—NO SALESMAN WILL CALL • Better than shampoo

Dave Nieman, Akron NY 14001-9529 (EST)

February 1986		February 1986		March 1986	
22 Tr	0111 WXMI-17 MI 355	22 Tr	0256 WVTU-18 WI 450	12 Tr	0117 WTTE-28 OH 310
	0130 WUHQ-41 MI 345		0332 WGV-24 WI 450		0800 WGV-35 MI 355
	0131 WFCB-38 IL 450		0600 C----16 ON ??		(under WSEE)
	0137 WFLD-32 IL 450		0623 WSYM-47 MI 305		0845 WCFB-38 IL 450
	0139 WCIT-26 IL 450		0631 WKBS-47 PA 175	15 GW	0947 CICO-53 ON 90
	0200 WIFR-23 IL 550		0637 WILX-10 MI 305		Belleville (TVO)
	0207 WQRF-39 IL 530	March 1986			1000 CICO-38 ON 125
	0246 WBBS/WPWR-60	12 Tr	0100 WRGT-45 OH 370		Kingston (TVO)
	IL 455		0102 WKBF-22 OH 370	1731	WKAP-68 NY 115
			(under CIII)		Syracuse

"Only one really good day of tropes in this report. Strange--during the January 21 good tropes we had a full moon. Then there was a full moon on the 22nd of February and some good tropes again. Just a coincidence? Or does the full moon affect tropes conditions?" (No, only DXers. I myself tend to grow hair on my palms and forehead and notice a slight lengthening of the incisors. A real bother--I have to carry a razor if I go out anywhere---jfc)

"I think that the channel 16 I had was Little Current ON by antenna heading plus the word Saturday (in EE) and the CBC logo on the slide. 16 Wawa is in the same general direction, but repeats CBLPT which is French. There was another 17 with Grand Rapids; my guess would be Rockford IL. Another 18 with Milwaukee; probably Davenport IA. And at 0200 EST I saw a channel 40 running one of those famine fund-raisers for Africa, which I guess was Dubuque IA." (These on 2-22---jfc)



Some WTFDA members who own computers have expressed interest in the possibility of a WTFDA Computer Bulletin Board Service (BBS). I have been offered a sub-board on an already existing system by the SysOp of that system. Since I'm the one who pursued the idea (lucky me), I've been asked to more or less feel out the membership on the subject. How about it? Would any of you be interested in a BBS for leaving public messages, sending electronic mail, downloading ASCII text files, etc? I figure that if your level of interest is high enough, you'll be willing to (a) splurge 22¢ on a stamp and (b) mutilate your copy of the VUD by clipping the form at the bottom of this page, filling it out, and mailing it to me at the above address. (If you REALLY don't want to injure your VUD, you could just drop a post card and also save 8¢ in the process for Junior's operation.)

Whether or not I take up the SysOp on his offer depends on the level of support among the WTFDA members, so if you ARE interested, let me know A.S.A.P., OK?? Thanks!

John

COMING SOON IN THIS COLUMN:

• Build Your Own Woodchuck • Roach Races

• Do females choose mates with the fewest parasites?

• BRAIN-MIND EXPANSION

• AND OTHER TRASH

SPONSORED BY:



CLIP HERE WITH SHARP INSTRUMENT (If they don't let you have sharp instruments, just tear)

COMPUTER BBS QUESTIONNAIRE (Mail to address at top of column)

Your name _____ Address _____

City _____ State _____ Zip _____ Shoe size _____

What kind of computer do you own/use? _____

Do you currently own a modem? Yes _____ No _____

ONKYO T-9090

Computer Controlled FM Tuner

A TUNER REVIEW BY DANNY BUNTIN

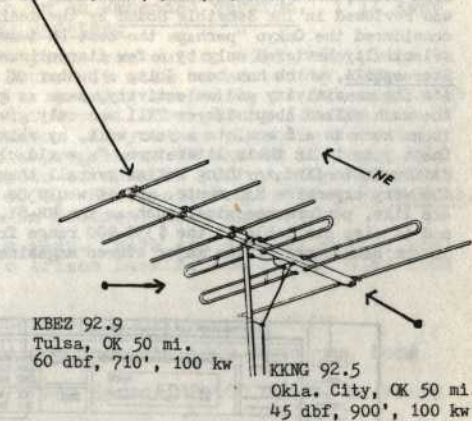
Combining rarely before attainable high performance without a Mac price, while offering electronically advanced frills, usually helpful with DXing, the Onkyo T-9090 tuner is surely the most noteworthy new tuner for DXing to come along since the Carver TX11. Receiving the most attention, and deservedly, the Onkyo's phenomenal adjacent channel selectivity, a characteristic becoming more and more desirable in my locale as more new FM stations sign on and established ones increase power. After purchasing the Onkyo, I compared its performance side by side to my old Pioneer TX-9100 tuner (for newcomers to the hobby, one of the best tuners from the 70's) and found the Onkyo just blew away the Pioneer in terms of selectivity. Weak signals on the Pioneer, inaudible, covered up by adjacent channel spill over from both sides came through clearly, even in stereo, on the Onkyo, with only slightly audible spill over present. At any rate it made the Pioneer sound like cheap junk. For an example, note below the illustrated reception of KZCC 92.7, formerly 92.7 difficult to hear weak stations on.

In terms of local overload rejection, the Onkyo also dominated the Pioneer, though less dramatically. 14 overload spurs cluttered the Onkyo versus 18 for the Pioneer. However, unlike the Pioneer, the Onkyo's local/DX switch gives it some versatility in dealing well with overload situations. For instance, when DXing toward the south and southwest where all my overload problems come into play, tuning to 94.5 reveals a distorted overload spur. But switch from DX to local and like magic in comes regular KDNT of Gainesville, TX, 175 mi. away. This little Onkyo trick suggests that weak signals are not too adversely affected through the local mode, though weak signals barely audible in DX are silenced in local. It's a good thing, though, that DXing in the local mode wipes out 12 of the 14 spurs. This solution to my overload problems is much preferable to the tunable FM trap occasionally used on the Pioneer but usually abandoned due to its inconvenience to use, and signals were weakened too much near the signal trapped. Besides, I all too often would forget to tune the trap out when not needed. Bear in mind, my area with only two strong locals probably isn't a heavy duty test for overload resistance. How the Onkyo would happen to perform near or under the shadows of a big city antenna farm, I wouldn't know, but surely much better than other fine tuners without local/DX switching. While on the subject of overloading, if the various stereo magazines conducting FM tuner tests ever get a hold of an overload proof model they will never be able to discover and report it, since evidently all their test sites are far removed from the menacing shadows of locals. (cont.)

Specifications

Tuning Range:	87.9 - 107.9 MHz (200kHz steps)
Usable Sensitivity:	Mono: 12.8dBf, 1.2µV (75 ohms) Stereo: 17.2dBf, 2.0µV
50dB Quieting Sensitivity:	Mono: 15.8dBf, 1.7µV Stereo: 37.2dBf, 20µV
Capture Ratio:	1.0dB
Intermodulation:	110dB
Image Rejection Ratio:	100dB
IF Rejection Ratio:	100dB
Signal-to-Noise Ratio:	Mono: 95dB (IHF) Stereo: 85dB (IHF)
Alternate Channel Att:	80dB IHF (±400kHz, IF: super narrow)
AM Suppression Ratio:	60dB
Total Harmonic Distortion:	Mono: 0.009% (IF: wide) Stereo: 0.02% (IF: wide)
Frequency Response:	30 - 15,000Hz +0.5dB, -1.0dB
Stereo Separation:	55dB at 1kHz (IF: wide) 33dB at 70 - 10,000Hz (IF: wide)
Output Voltage:	0 - 1.5V
General	
Power Supply:	AC120V, 60Hz
Antennas:	75 ohms unbalanced
Semiconductors:	FETs: 18 Transistors: 38 ICs: 22 Diodes: 86 LEDs: 41
Dimensions (W x H x D):	450 x 99 x 388mm (17 3/4" x 4" x 15 3/8")
Weight:	6.6 kg., 14.5 lbs.

KZCC 92.7, Osage City, KS 190 mi.
9 dbf, 340', 2300 wts.



KBEZ 92.9
Tulsa, OK 50 mi.
60 dbf, 710', 100 kw

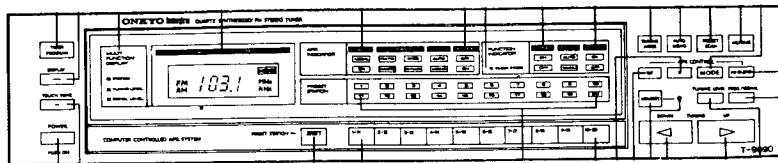
KKKK 92.5
Okla. City, OK 50 mi.
45 dbf, 900', 100 kw

• Specifications and features are subject to change without notice.

T-9090=super selectivity, demonstrated above

In other key performance areas the Pioneer rose up and met the Onkyo challenge well with both tuners coming to equal terms in sensitivity, stereo quieting and capture ratio. Looking elsewhere, the Onkyo has an attractive number of advanced features seldom if ever found in tuners at any price. For instance, the probably unique computer controlled Automatic Precision Reception system (APR) automatically senses the signal and adjusts the RF gain (local/DX), selectivity (wide/narrow/super narrow), stereo/mono modes and hi blend (on/off) to the best combination of settings according to signal quality. All settings are manually resettable, and the computer very seldom goofs except when dealing with overloaded frequencies, sometimes in such cases remaining stuck in DX mode, and keeping audible an overload spur, rather than switching into local and uncovering a DX signal, if present, lurking behind the spur. While not doing so consistently, it is intriguing how fairly often the computer is smart enough to pick DX over spurs. Reading in single units of dbf's, the digital signal meter is much more useful than a short row of LED's and its wider range makes it also better than an old fashioned needle meter but comes with one inconvenient disadvantage. A button must always be pressed to switch from frequency to signal strength meter. Onkyo should have used separate LED's for continuous signal reading. The S-meter starts at 5 dbf's for little or no signal, 25 to 35 for Wichita, KS stations, 40-60 for Tulsa, on up to 60-80 from the Oklahoma City tower farm and finally 100-130 for locals, making for an impressively wide range. Then there is the 20 station pre-sets, not too many for my area. If you don't want to be bothered with selecting the 20 stations, then let the tuner do it for you in less than 30 seconds. Pre-sets are scanable. I use some of them for trop indicator stations. One of the least important frills is the touch tone that sounds every time a button is pushed. A redundant feature since the buttons are not ultra light touch, and when pressed make enough mechanical noise for positive feedback. The touch tone like every thing else is defeatable. One of the most unwelcome characteristics of the Onkyo is the muting that always sets to on when the tuner comes on. It's irritating to always have to switch off the muting to DX when powering up the tuner. Another unattractive characteristic of the Onkyo is that its fabulous selectivity can not be fully exploited since there is no means for detuning. Tuning can only be done in full channel steps. Not being able to carefully detune to bring in more intelligibly a weak station suffering interference from a much stronger neighboring station takes away some of the fun in DXing, I think. I often used that DX trick quite effectively on my old Pioneer. How great it would have been if Onkyo had a fine tuning feature like Yamaha's T-80 with its .01 tuning steps. However, the more I use the Onkyo the more it seems that its super selectivity is so sharp that its inability to detune won't make much, if any difference, in many reception cases. But it is evident that spill over from the strongest stations can prevent the weakest signals from being heard. Interesting to note though, that when my strongest local (100kw) is putting out dead air or at a very quiet program level, it is hard to tell if the local is really on when tuned to the adjacent frequencies. Fortunately for me my best DX direction faces away from the strongest stations. An fortunately for the Onkyo, it can be taken in for service, should I choose to do so later, and modified to tune in steps of .05 MHz, the European standard. Whether that is fine enough to have much beneficial effect, I don't know.

Ignored, so far, by the major stereo magazines, the Onkyo has received favorable notice from lesser known publications. According to Bruce Elving's last June FCC column, the Onkyo was reviewed in The Sensible Sound by the designer of the legendary McIntosh MR 78. He considered the Onkyo "perhaps the best FM tuner currently available", its adjacent channel selectivity bettered only by a few discontinued tuners such as the McIntosh MR-78. In Stereophile, which has been doing a number of interesting tuner tests, the Onkyo was given A's for sensitivity and selectivity, same as given for the McIntosh MR-78. Surprisingly, the much talked about Carver TX11 was only given B's (now tends to be difficult to find, sub-to as much as a 6 mos. to a year wait, my wait for the backordered Onkyo--3 weeks.) And as Onkyo puts it in their literature, "a world class performer." It would probably be difficult to find anything better overall than the Onkyo, unless one is willing to go the very expensive Mac route, and it would be interesting to know what the newest Macs are like, performance wise, such as the MR-81, but the Onkyo T-9090 can be had for \$600 and is also available in the \$350-400 range from the mail order discounters that advertise in the back pages of the major stereo magazines.



ANARC UPDATE

RANDOM THOUGHTS

Steven P. Sprachman
15 Berry Lane
Hicksville, NY
U.S.A. 11801

It's April 1st, 1986. The weather outside is warm, much warmer than expected for this early in the summer. But, the weather is not what is important. It is what is going on in the house. For the weather has provided us with the perfect conditions for some great TV DX. My television set is being bombarded with signals from stations from Boston to Baltimore. I watch in excitement as I receive stations I've never seen before. Have you ever tried to explain this excitement to a non-DX'er. The reactions one gets are varied. "Aren't there enough things to watch here?" "Oh, I get Atlanta on cable." "Why watch a long distance station when the same thing is on local TV?" "Sometimes I get channel 8!" "Big deal, what's so great about that?" "I get FM stations on channel 6." And finally, "I've gotten channel 55 once." It's too bad we can not get other people interested in our hobby. They really don't know what they are missing.

WTFDA was featured on the Voice of America recently. Gene Reich, host of the program Worldwide Shortwave Spectrum was planning a show on TV and FM DX'ing. ANARC's Executive Secretary, Terry Colgan, gave him my name and phone number. Gene called me and we spoke about TV and FM DX'ing for about a half hour. We talked about the equipment one needs for our hobby, propagation of TV and FM signals, QSL'ing FM stations, and of course I went into great detail about the benefits of being a member of WTFDA. I tried to express my interest and excitement in TV DX'ing to him and his listeners. Well, by the time the interview was broadcast on March 13, the half hour shrank to 7 minutes. He took the part of the interview on propagation to broadcast to the rest of the world. I thought that was the weakest part of the interview. Gene mentioned WTFDA and he gave the club's address several times. I had a great deal of trouble getting the broadcast. Reception conditions were very poor that night. When I finally found it, I thought I missed my interview. I hope reception was better in the target areas.

I've heard WTFDA mentioned on several shortwave DX shows. Glen Hauser often uses information from the VUD for his program World of Radio. This show as well as the other DX programs on shortwave are highly recommended for those with a shortwave receiver. I'd like to thank Glen Hauser, Gene Reich, and others for publicizing WTFDA. We can use all the publicity we can get.

Update on HR 3378- The Electronic Communications act of 1985. ANARC submitted an additional statement in February. The latest word from the committee is that the U.S. Justice Department has come out against the bill as being nearly unenforceable. It is still necessary to write to your representatives to show you opposition to this bill. It is not dead yet. I can assure you that it will reappear again in an amended version. I'll keep you up to date on this in future ANARC Updates.

ANARCON '86 is almost here. This years convention will take place in Montreal, Canada between July 18 and 20th. It will be hosted by Radio Canada International. And, although it is being hosted by an international shortwave station, I've been told that there will be plenty for the non-SW DX'er. This is where your help is needed. If you are planning to attend this year's convention, let's present a program on TV and FM DX'ing. For more information on the convention, write to ANARCON '86 c/o Ian McFarland Radio Canada International, P.O. Box 6000, Montreal, P.Q. H3C 3A8, CANADA. I hope to see many members from WTFDA in Montreal this summer.

Why not join a local DX club this year. Here are several good clubs:
1) Washington Area DX Association, c/o Arlene Luskin, 606 Forest Glen Road Silver Spring MD 20901

2) Chicago Area DX club, 6524 South Sacramento, Chicago IL 60629

3) Southern California Area DX'ers, c/o Bon Schmidt, 3809 Rose Ave, Long Beach CA 90807-4334

4) Michigan Area Radio Enthusiasts, c/o Don Hosmer, 24500 Union, Dearborn Mich. 48124

5) Minnesota DX Club, 5212 Drew Ave, South, Minneapolis Mn 55410
And whenever you send for information from these clubs, send a SASE and mention you heard about them from WTFDA!

Well, that's it for another month. Best of spring DX to everyone. ^{73's}
7 Steven P Sprachman

UT Roy 107.9 KRGO-FM (KRGO-FM; AM now has new call letters)
UT Tremont 104.9 KKVU-FM (KBCM-FM)
VA Winchester *91.7 WVVU
WA Cheney 101.1 KEYF-FM (KEYF)
WA Long Beach 94.3 KLPB (KCCW)
WV Grafton 95.9 WTBZ-FM (WTTB)
WY Milwaukee 95.7 WOMN (WZUW)
WI Buffalo 92.7 KLTG (KLGM)
NF Goose Bay, Lab. 89.5 CFGB-FM* (CFGB-FM; because of deletion of AM station CFGB Happy Valley NF)

NETWORK DELETIONS, sent by Roger Winsor, and not keypunched. Only four call letters listed, not the "FM," with this list supplementing what was printed previously.

- AL Auburn WKRR 97.7 no E
AL Decatur WDRM 102.1 no A
AL Sylacauga WMLB 98.3 no I
AZ Tucson KRQQ 93.7 no Y
AR Berryville KSOC 107.1 no I
AR Fayetteville KKEG 92.1 no A
AR Hot Springs KSFA 96.7 no I
AR Sealey KSER 98.5 no E
AR Stamps KMSL 100.1 no E
CA Bakersfield KQXZ 4.1 no E
CA Camarillo KZTR 95.9 no D
CA Carmel Bay KHTZ 103.7 no D
CA Escondido KOWN 92.1 no A
CA Goleta KMGC 102.9 no D
CA Lompoc KXCC 92.7 no A
CA Los Angeles KIIS 102.7 no Y
CA Mojave KAVS 97.7 no E
CA Oceanville KGMG 102.1 no D
CA Oroville KEWE 97.9 no E
CA Pismo Beach KPFA 95.3 no E
CA Salinas KTOM 100.7 no I
CA San Diego KSON 97.5 no I
KSDD 102.9 no D
KLZZ 106.5 no A
CA Santa Barbara KRUZ 103.3 no E
CA Santa Paez KXZ 96.7 no I
CA Seaside KMBY 107.1 no A
CA Sonora KZSQ 92.7 no A
CO Alamosa KALQ 93.5 no I
CO Colorado Springs KILQ 93.9 no I
CO Trinidad KORT 92.5 no I
CO Longmont KILMO 104.3 no A
CO Pueblo KKMG 98.9 no A
KVUU 99.9 no D
KZLO 100.7 no E
CO Sterling KNNG 104.7 no D
CO Trinidad KORT 92.5 no I
CT Groton WQGN 105.5 no E
CT New Haven WYBC 94.3 no A
DE Seaford WSUX 98.3 no Y
FL Big Pine Key WYU 104.7 no Y
FL Clearwater WNLN 95.7 no Y
FL Fort Lauderdale WYFL 100.7 no A
FL Fort Pierce WKGR 98.7 no E
FL Green Cove Springs WWSV 92.7 no E
FL Miami WAIA 97.3 no E
FL Milton WKBM 102.7 no I
FL Naples WRGI 93.5 no I
FL Orlando WBWV 105.1 no Y
FL Palatka WNEF 99.9 no A
FL Pompano Beach WMXJ 102.7 no Y
FL Riviera Beach WNJY 94.3 no E
FL Tampa WRBQ 104.7 no A
FL Vero Beach WQYL 93.5 no A
FL West Palm Beach WIRK 107.9 no A
FL Williston WJRW 92.1 no I
FL Winter Haven WPCV 97.5 no A
GA Blue Ridge WPFL 103.9 no E
GA Carrollton WBTR 92.1 no Y
GA Dawson WAZE 92.1 no E
GA Waycross WACI 105.3 no A
GA Waynesboro WYFA 100.9 no E
ID Boise KJOT 105 no I
ID Grangerville KORT 92.7 no Y
ID Orofino KLER 95.3 no A
ID Payette KQPD 100.5 no A
ID Salmon KRRA 92.7 no A
ID Sun Valley KSKI 93.5 no A

This column is designed to coincide with the FM Atlas deadline, and no news in it is not also in the new, Tenth edition of my "Atlas." Next month will be a catch-up month. I still don't have my computer working yet, mainly because of lack of time to learn the program, but above you will see several IBM Composer format codes: flush left, centered, flush right, justified and ragged right (in which half the space is used between words, and the other half at the end of the line).

REPORTS FROM READERS AND FM INDUSTRY NEWS

Dave Nieman kindly sent a copy of "MAF FM-TV," a Spanish-language DX magazine, published in Europe. Not a word of it is in English, but there is a construction article on "Recepcion FM," and how to mount your antenna and point it for best reception. And some European FM station slogans, logos and receptions noted. He also sent a book on shortwave listening, "Hear all the Action."

From "Radio World" newspaper is a mention that most comments to the FCC oppose Moody Bible's petition for satellite feed of FM translators, and now I hear the FCC is turning down translator applications by stations in the 88-92 part of the band. Who would like to establish translators between 92-108 mhz. WXPR *91.7 Rhinelander has had its application for a 100.9 mhz translator in Ironwood MI turned back. I have advised WNCB *89.1 Duluth on several translator opportunities; they want to establish a translator network from St. Cloud MN to Ironwood MI and up the north shore of Lake Superior; similarly, I advised WKLK-FM 100.9 Cloquet of a possible translator frequency for them to apply for in Moose Lake MN, and I warned WCMP-FM 92.1 Pine City MN of plans by KDNW *90.5 Duluth to change its Moose Lake translator frequency to *91.9 from *88.5. A Southern California broadcast engineering newsletter said FM stations fearing interference from translators need only show to the FCC that some listeners would be affected, not that the proposed translator would prevent reception within a certain signal contour. But it cautioned that stations who complain should try to do so before the translator actually goes on the air. In the same paper is word that KERG 104.7 Garberville CA is facing problems during the forestry season because of possible radio frequency radiation to people who man a forestry lookout tower near KERG's tower. KERG has been told to lower its power by summer, from 51 kw to 2 kw, and to look toward a long-term solution of using a taller tower, so their radiation won't spray out opposite where humans work. More and more, we will be hearing about possible ill-health effects of being close to FM transmitting antennae, because the human body is resonant (because of the statute of most of us) to FM (88 to 108 mhz) radio's wavelengths. Warning: FM radio may be hazardous to your health! Mike Reid noticed in the Jan. VUD column that a 104.9 translator of WCLV Cleveland was granted in Erie PA, and he wondered if it is on yet. I am not sure; have not noticed that it is licensed, but it could be on the air anyway. He mentions that the NRC Domestic Log comments about ABC's network lists: "ABC's lists of affiliates do not include every station that carries the various networks. WILY-1210 has been Ai for at least 8 years; WCIL-1020 has been Ac for the same period, but has never shown up in an affiliates list from ABC!" Mike suggests my using two letters for networks, such as the NRC does, but it is my plan to eliminate them, after having them only in the by-frequency part of the FM Atlas, 10th edition. "As far as I know, there are no official two-letter abbreviations for Canadian provinces. The DOC uses some in its lists, but I've never seen anything from the Canada Post Corp. mentioning them."

"I've been holding back about writing to you about Stephen Tuura for some time. I don't know him and have heard of him only from your column. Commenting about other people is not one of my favourite pastimes. Alas, the information he has given you ranges from half-right to complete garbage. I dug out as many VUDs as I could to see exactly what he has said before. Comments follow.

Sept. '84 97.3 will not be in Richmond Hill 104.9 Niagara Falls may be in St. Catharines "I will break at this point to say that a friend was at the CRTC hearings last November and checked the applications. What I can remember forms a lot of my info. here. Oct. '84 CKLN Toronto was 13 w ERP. They said 50. It was really the equivalent of 50 w. Low power FM stations have a maximum power of 50 w with EHAAT of 60 m. Their tower was higher, so they had to use a lower ERP. They say they are now 250 w. I can still get the same null with my dipole as I could before. Maybe they are still at 13 w. It wouldn't be the first time a station has claimed a power increase when they hadn't done it yet. Maybe CKLN is at higher power. Ask Nieman.

Jan. '85 The runner up on 97.3 will not get 90.3. There was nothing on the agenda of the hearings about the CBCF \$ station on 90.3. I was told to assume it is already approved. CIAO: This station never existed. It was an application that was returned years ago. It never came on. The owner has tried again. History will repeat itself. It won't make it. 101.1 is not allocated to Buffalo. It is to Ridgeway (Fort Erie and area, Ont.)

Jun. '85 CFMX does not want 102.9 in Toronto. Martin Rosenthal, the owner, wants a station on 97.3. CIUT is not yet approved. . . . CFMG has no plans for a religious station in Toronto. This is what got me concerned about Tuura. First, the CRTC does not licence religious stations. Second, CFMG has a Toronto station, CILQ. [But see news about an Alberta broadcaster wanting to change CRTC policy and have a gospel-music station; it appears farther on in this column.—ed.] Sept. '85 No 103.7 here either. CBPB is not moving. About the CRTC Tuura said 'it changes its mind until the final decision is made'. In truth, it says nothing until the decision.

Nov. '85 CHUM is steamed about 104.9 in St. Catharines. . . . Seems one DOC engineer told one of the applicants to go for it. CHUM doesn't like the short spacing and has another DOC engineer on its side.

Dec. '85 CIAO equipment does not exist, unless Domenic Morabito actually built the thing thinking it would be approved. Or possibly delusion on Tuura's part. No one will get 101.1 [not even Ridgeway area?—ed.].

Mar. '86 CIUT, CING stuff just applications. The other applicant for 104.9 is a company owned by the owners of CHIN/CKRN (AM) and CHWO (AM). I am getting a bit steamed about Tuura."

Finally, Mike says he once asked someone at the DOC why they didn't publish things like EHAATs and call assignments in their area in Canada Gazette. He said "It

would mean more work for them." Mike says: "I won't comment about that; I'm steamed enough already."

From western Canada reports in Eldon Sanders Luoma. He enclosed an article about CHRK K-97.975 Kamloops BC, which told everything about the station except whether or not it had stereo. "The FM pirate relay stations are still on air in Parsons, Radium Hot Springs and Boston Bar BC. They relay USA rock satellite programming, CFMI-FM and other stations at times. Western Canada is slower though than the rest of North America [in getting new FM stations]. The economy of Alberta was looking good until its recent oil price downfall. . . . BC has improved some and with Expo '86 may see some economic boosting. Right now Nelson BC has 24% unemployment, and Trail, Castlegar, Kimberley, Cranbrook and the Creston areas of BC has 20% unemployment. On the western Canada FM band there are still NO LOCAL COMMERCIAL FM STATIONS IN: Cranbrook BC (area population 50,000 at least); Kimberley BC (50,000 pop.); Creston BC (5 to 10,000); Nelson BC (12,000 to 15,000); Castlegar BC (10,000 population); Trail BC (just CBC-FM); Salmon Arm, Revelstoke, Golden, Dawson Creek BC (60,000 area population); Smithers, Fort St. John, Vernon, Campbell River, Courtenay, Port Alberni, Port Hardy, Nanaimo (previous five on Vancouver Island) and Powell River BC (The Sunshine Coast).

In Alberta: Grande Prairie (pop. 24,411); Medicine Hat (pop.44,000); Drumheller (pop. 6671); Lloydminster (16000 population); Brooks (9421); Hinton (9000); Jasper (3269); Peace River (6043); Rocky Mountain House (5126, with no local station of any type). "Anyway, that gives you some idea of the potential for FM still available in two provinces of western Canada in March, 1986!"

He sent an article, "A Hot One for the CRTC, If all-rock radio is okay, why not all-gospel?" which was in "Alberta Report," March 17, 1986, with Eldon saying: "Presently no (absolutely none) gospel radio stations on air or carried on cable from U. S. A. allowed in Canada. CRTC policy. Freedom on the air? CRTC way behind the 8-ball on this; pity only in Canada!" Anyway, evangelist Allan Hunsperger, 38, is trying to change a 50-year-old CRTC policy that was formed when Edmonton's Beulah Alliance and Vancouver's Jehovah's Witnesses had outlets, that blasted other churches, as well as the government itself. "Mr. Hunsperger's latest project requires not only \$1 million, which is the easy part, but also a license from the CRTC, which is so much the harder part as to be almost impossible. To have any chance for a licence he must convince the CRTC that his intentions are in no sense 'religious'. Mr. Hunsperger's one hope of succeeding where others have failed seems to be in gospel music, observably popular these days among baby boomers, some of them not terribly religious. As he carefully explained, he will be proposing an ordinary commercial station, specializing like other ordinary commercial stations in a certain type of music, which would account for something like 50% of broadcast time. The usual staples like news, weather, sports (and of course advertising) would fill the rest. No sermons, no gospel harangues in pulpit voices, certainly no pitches for donations—although such, in fact, are carried on many existing commercial stations." The article mentioned other FM applications filed which were religiously-oriented—Ralph Jacobson, for a Vancouver "family radio" station, which the CRTC turned down in 1980, and the application of two years later by Douglas C. Main, for a station in Edmonton. Although dealt some setbacks, the Main application is still alive, but the CRTC will not entertain new applications in the area "until the economy improves and the CRTC is assured of the financial health of existing stations. 'A really crazy business,' says he. Over such a span investors lose interest, move away, even die."

George Mileson sent an article confirming that WCRX *88.1 Columbia College, Chicago, has increased to 100 watts [directional—ed.], and claiming to reach "all of Chicago and most adjacent peripheral suburbs." Al Parker is chairman of the radio department, and presumably the one to send reception reports to. John Combs sent an article analyzing Jacksonville FL radio, discussing the roles of consultants and ratings services. "Without a question, with what has happened in FM growth in the last six or eight years you are going to see that AM stations are going to make a come back. But I don't think they will overtake FM," muses WQJK's Mize (first name not given). The article mentioned how jazz disappeared from WFAM, now WKTZ-FM *90.9, and that AM station WZAZ is looking for an FM adjunct. "But the price has to

be right. Despite the fact that blacks make up 35 percent of the market's demographic and that women of all races like the format, the price advertisers will pay for time on an urban-contemporary station is less than that of a similarly competitive adult-contemporary, country or rock station." Says WZAZ's general manager Mark Picius: "One thing that is true in this business is that black radio does not get the same [advertising] dollars as white radio." Then John revealed something about himself:

"I am a member of ACE (Association of Clandestine Enthusiasts). I think the FCC's basic policy on pirates is this: choose a clear frequency, don't interfere with legitimate services, and don't broadcast too frequently, and we'll look the other way. The FCC is perennially understaffed, just like any government agency. However, if you cause interference to maritime frequencies, or MARS networks, or hams, or whatever, and complaints are filed, you can bet they'll hunt you down. My feelings about pirates are thus: as long as they cause no interference and do no harm, why harass them? It is a free society. Anyway, the FCC's original function was merely as a propagational 'traffic cop'—making sure that no two stations interfered with each other's transmissions. . . . But if you broadcast at the high end of the FM band and interfere with airport communications, or if you want to use 15050 kHz when Air Force one is using 15048. . . . well, I have no sympathy. Besides, one good reason for pirate stations is that they are probably the most challenging DX targets around!"

Another reader about the pirate issue takes issue with my discussion of the recent pirate bust by the FCC:

"First, as you well know, we disagree on the aspect of pirates, but I respect your right (and mine) to be able to disagree. . . . Secondly, knowing how you are a stickler for detail, I am surprised that you erred on the timing of the bust. I know you were using your memory, but the actual date was Nov. 26, a Tuesday. By slanting the story toward the erroneous weekend angle, I feel it made the FCC look bad in that they appear eager to 'get' pirates. . . From all appearances, the FCC treated you very lightly in Nebraska, even with a 6 month wait for them to respond.

"Finally, by injecting what you thought should have been done (or what you would [?] have done), casts a very negative tone to my action. I also considered tracking down KSMR, but in reality, why should I spend my time and effort to do a 'favor' for an illegal operator cluttering up the band with no regard for other people? In my opinion, a station is either legal or illegal. . . .

"Bruce, this was not the first pirate in the area! I have been bothered by several others over the past few years. Fortunately, they ceased operating, even though I knew where they were via the direction finding method. I have usually followed a policy of tolerating a pirate for about six months to see if the novelty wears off and they cease operation. KSMR was first logged back in March of 1985. Can you imagine the chaos which would result if only a small percentage of the population of Duluth (or any other fair sized city) decided that they wanted to establish a low power FM (or AM) operation to inundate the immediate area? It would almost certainly spell an end to tropo for the unlucky DXer who happened to reside in the area. As far as the KUMD stint, that was of another time and under different conditions than exist today.

"In my humble opinion, the law is the law and, sad to say, KSMR is in violation of that law. One can be a 'little bit illegal' no more than a woman can be 'a little bit pregnant'. Understand, I am not defending the FCC, as I do not agree with some of their actions, but I do agree with the activity of law enforcement."

There you have two sides to the pirate story. I might mention the pirate broadcasting I have done has been of such low power I am sure no DXer's tropo would have been affected. Next time I turn myself into the FCC, I may ask them to come up and check to see if I am really radiating in violation of Part 15 of the rules or not; it's possible "KSMR" had such a powerful transmitter that it created a potential for interference over quite a wide geographical area and involving a large population. Yet, I don't believe such pirates are operating in disregard for the rights of others. I think many of them are quite altruistic—genuinely concerned about programming in a way not available over professional stations (music, neighborhood appeal, etc.), without regard for any financial remuneration. Such is the amateur spirit that started broadcasting, both AM and FM, in this country, and I hate to see the "law" stand in the way of creative people who might have a positive influence on radio in this country.

Maybe the law can be changed, to allow pip-squeak stations to squeeze into the MHz channels with powers a little bit higher than allowed wireless mikes and garage door openers. A subsequent article said the operator of "KSMR" was fined \$750 by the FCC.

And Waldo Bisop writes to say he gave the wrong information on WANM, "top rated station in Tallahassee. It is owned by WGLF 104.1, not by WAMF *90.5, the voice of Florida A & M University. Waldo has had no luck tuning in WPCI 105.5 Perry FL, but gets WYKS ("Kiss 105"), which is "sometimes 105.4" as the only station on that frequency to the east or southeast. Assume WPCI not yet on the air.

Writes Frank Merrill: "I believe the calls of that new 130-watt station in Yellowknife (NWT) are CHON, and they ARE on the air as 'Shone, original radio for the original people'—in English at least sometimes, show them as rik mixture. Neve Never heard an official ID. How do I know about this station? [Yes, how do you know about them, being ensconced in Toledo OH?] After all, I didn't go to Yellowknife and there wasn't a big Es opening up there. This station shows up as a subcarrier on one of the video services on Anik D! That is the Canadian communications (TV) satellite that operates in the 'C' band (4 GHz). Many interesting things on that bird!" [I am still not considering the CHON information "official." and await further word as to what Frank really heard, although it all sounds plausible.]

In Minnesota news, the newsletter put out by Central Theological Seminary mentions a new tower will be built for WCTS *100.3 Minneapolis. "WCTS has good news for those who have had trouble receiving us since the tower toppled in 1980. We now have the opportunity of a lifetime to share the tallest FM broadcast tower located just north of Anoka, we will be able to reach an area south to Owatonna, north to Brainerd [sic], west to Wilmar [sic], and east to Menomonee. The presence of a good FM signal will mean that our listeners should be able for the first time take WCTS along with them when they vacation in the north woods lake country. Many of our friends that have not been able to receive the Bible Station for the last five-years will now be able to enjoy our Bible-centered preaching, teaching and music. . . We will be expanding great sums in the next few months. The cost for new equipment will be \$200,000. This does not include the cost of rental space on this 1144-foot tower. We will need a different antenna as the old one was damaged when our tower in New Brighton fell. The increased height to reach out this far necessitates a larger transmitter to power this facility. It will be state-of-the-art so as to clearly and powerfully deliver the old-fashioned Gospel you have learned to expect from the Bible Station."

A new station with a different type format for its type of station—now on the air and DX ready—is WGNV *88.5 Milladore WI. If you can, tune it in before I mention more about it next month. Changing formats is WTBX 93.9 Hibbing MN. The only thing I know for sure about this one is that its 67-kHz Seeburg music SCA stays intact.

John Ebeling sent an article saying "Ratings give WCCO AM a bit of a start." Seems WCCO, although still No. 1, had just an 18.5 share of the audience, the first time in memory this station has been below a 20. "Those numbers looked bad for a station that has suffered a slow audience erosion for years. Faced with the general decline of AM radio stations, increasing competition from FM formats and the aging of its audience (most of its listeners are over 50) WCCO has been fighting bravely to stave off the inevitable for years. The fall ratings survey, though, led to whispers that 'Real Radio' is now on a slide that could end up with the station going right down the radio tubes. . . [But things may not be all that bad.] Although the survey showed that WCCO lost listeners in the Twin Cities area, it also showed that the station picked up listeners in a 55-county area that surrounds the metro area. . . but 90 percent of radio advertising is sold on the basis of metro audience ratings." The article goes on to point out that the ratings decline was helped by the Minnesota Vikings switching from WCCO to KSTP-FM, with the Vikings being "one of only a few NFL teams whose flagship radio stations are on the FM radio band."

Other stations in the ratings, in order, are KSTP-FM, KQRS-FM, tied with WLOL-FM, WAYL-FM, KEEY-FM, KDWB-FM, KSTP (AM), WLTE (FM), and WDGY (AM).

Rockefeller Group will sell its stations; the group, formerly known as Outlet Communications, will be selling KIQQ 100.3 Los Angeles, whose SCA future in carrying Chinese may be jeopardized. Another article W. R. McIntosh sent is

"Board of KPFFK (90.7) asked to Resign." The station has been suffering audience erosion, and seemingly its sense of direction. Reported earlier was news of WBAI *99.5 New York changing its programming to ethnic and news, with the ethnic being mainly folk music of many lands. A similar shake-up in KPFFK's programming may have occurred by the time you read this. And G-E and RCA seek an 18-month FCC waiver to swap stations with less time pressure. FM stations involved are WYNY New York, WKYS Washington and WKQX Chicago.

Paul L. Gaines says a group of 46 members of a Masonic Lodge (black) has sued the widow of the lodge's founder, seeking control of WGPR 107.5 Detroit and WGPR-TV. The suit "alleges that Ivy Banks, widow of William Banks, has denied lodge members 'any information regarding the financial affairs' of the stations and other lodge assets. Wm. Banks, who died last Aug. at 82, founded the lodge in 1950. He reportedly bought the radio station in 1964 and the TV station in 1975. He operated both stations in the lodge's name. It is one of the few black-owned radio stations and the first black-owned TV station in the U. S. The suit said lodge members virtually ousted from the organization by Ivy Banks. Keep up the great column." And I was fully aware of an article Paul sent about WCXI 92.3 when I printed their "Country music... no bull" logo in the new 10th edition. Paul's article said WCXI's new owner, Charles Fritz, who also owns WXYT 1270 AM, intends "to replace the country format with some type of adult contemporary/easy listening mix," but I have not heard when this might take place and what exact format will evolve on 92.3.

WCXI AM (1130) is being sold to the same people who have WWWW 106.7, and WCXI AM will stay country, meaning that the country market in Detroit will reside in one AM-FM combination. Michigan's pioneer FM station WJ01 97.1, formerly WWJ-FM, which came on the air in 1941, has been sold to a group of local investors known as Federal Broadcasting, Inc. Both stations have studios in suburban Southfield on Nine Mile Road. And Paul sent a picture of a Mexican bumper sticker showing a map of that country and the letters "SEB." He wonders what this might be, an AM, FM or TV station or company? Dave Nieman also sent a bulletin from the Antique Wireless Association (AWA), which is quite interesting. Dave joined the organization shortly after touring their museum. "They put out a great-looking bulletin, don't they?" During the Feb. 8 aurora opening Dave heard a CBF Montreal repeater on 91.9, which I think was CBF-9 Mont-Laurier PQ. And a mystery on 104.9. It "is a commercial outlet with mid-of-the-road and rock in Stereo (English and French) all announcing is done in French. The only call letters I've heard have been CFCF Montreal's. They have network news which sounded like 'CPN?' Station on 104.9 was first heard on Feb. 12. Maybe the guys in Canada can help on these?" Could this be CJLA La Chute PQ—but why the CFCF call letters?

I helped Keith Pugh solve a mystery. He was getting WAPX *91.7 Clarksville TN on 98.5 with no mention of being on 98.5, just "91 Plus," and owned by Austin Peay State University. He was really getting W253AA *98.5 Birmingham AL after primary WBQM *91.7 Decatur AL had signed off, and tropo was bringing WAPX to the W253AA site, and the same tropo was bringing the 1-watt W253AA to Keith's place. Keith does not have a rotorator now and was unable to turn his antenna to get WAPX directly. "W253AA would be the first translator I've received. I don't think I can receive it without some real good conditions."

"As of Feb. 18, KABF 88.3 Little Rock is still mono. Under Facilities Changes in the Feb. VUD, KY Hazard-WSGS 101.1 and the S? — I checked and WSGS is still mono. Funny station, with coverage like WSGS has, would not go stereo. I told you about WCRQ 92.7 Arab AL signing off now. That's still true and fine with me, but after a week or two of a clear frequency of 92.5 to DX with WDEF on 92.3 in Chattanooga must have found out, so WDEF-FM decided to go 24 hours! So much for meteor scatter on 92.5. WDEF-FM packs a heck of a signal here, as do all of the Chattanooga stations, except for 88.1 WUTC. Hope your work on the new Atlas goes smoothly." [Would a more selective receiver help cut down the Chattanooga adjacent-channel slopover?]

John Jefferson came through with much CA news, including the fact that KIWI 92.1 Bakersfield is on with c, but not known if Stereo or not. K202AP *88.3 McCloud is confirmed as on, and KSCO 99.1 Santa Cruz now on from Loma Prieta (about 3800' above sea level), co-sited with KBAY

100.3 and KKUP *91.5 Cupertino, as well as KWSS 94.5 Gilroy). "But K257BE Los Gatos is still operating, which can't be legal [?]. KJAZ-1 92.7 Orinda is on the air. Haven't logged it, but an article in the Oakland Tribune mentioned in connection with the periodic station ratings. Presumably KJAZ's static ratings (1.1) will show a noticeable gain due to addition of the Orinda and Lafayette audiences [?—b.e.] . . . KSOL-1 107.7 Pleasanton is on. They're on Monument Peak, south of here, not on Wiedemann Hill (NW) with the others. Also on is KRQR-1 97.3 San Ramon. . . . There is no clear evidence of it here, but one day KRQR appeared to have an unusual amount of multipath to the north, so I called and confirmed the cause. Doubtless you read about our storms around Valentine's Day. Several stations suffered, though all are back now: KXPR 90.9 and KXOA 107.9 Sacramento had their transmitters flooded and were running off their exciters for almost a week each. KRFD 99.9 Marysville was off for over a week, and KFIC *89.7 Los Altos Hills lost over two weeks. Even KIOI 101.3 San Francisco was off twice, and that was rare! Jim Korn advises me that KYA 93.3 SF is now located on Mt. San Bruno (with KQED 88.5, KSCAN 94.9, KKHI-FM 95.7, etc.). Their ancient AM-FM tower on Candlestick Point blew down 2-14, leaving nothing higher than a telephone pole on the site, so they apparently relocated under emergency conditions and will be getting FCC authorization after the fact! . . . KHIP 93.5 Hollister is no longer k, at least not in the conventional sense. They seem to be emulating the late, lamented KFAT 94.5 Gilroy with very offbeat sounds."

News from the FCC: The Field Operations Bureau can now issue fines as high as \$10,000 to stations that are found to be violating the FCC's technical rules. The previous fine limit was \$2,000. Radio pioneer Max Engel: "I'm glad that I sent you the Hartford Times of 1948 and that you enjoy its features. Greg Hardison's column in the March VHF-UHF Digest makes sense. Unfortunately, Greg stays away from the subject of having at least the ABC owned stations such as WABC New York clear time to carry the program in full." [Max, I don't think Greg has the power to get WABC to carry the entire show. This is probably due to the time zones, with KGU Honolulu joining the program well after it was underway; a better idea might be to persuade WABC's FM outlet, WPLI 95.5 to offer the show in its entirety on SCA, as I would like to see WAKX 98.9 do locally—b.e.]

Nick Lombardi sent station news and a proposed ad copy approach for "Audio" magazine. Since I publicized the book in my last column, the page total has gone up to 164, so the book you advance orders send in for will be thicker than you may have expected (and my costs higher to have it printed). Then Nick says: [note on page 4 of the March VUD that you again seem to be having alignment problems with your Composer. See middle column for [examples of call letters running seemingly up and down]. Hopefully, you will get this fixed before starting production on the new Atlas." The reason for that is the spare type element I have for my most used size and style (10-point medium condensed). Where I quoted you above I used this font, while this sentence (the one before it were with my regular font. I never thought the difference was one a person would even notice, but now I know and I used the spare font sparingly in production of the new book.

Richard and Franklin Reese point out several stations which must change frequencies: FL Key West WAIL 95.5, because of Homestead 95.7 [WAIL to go to 99.5]; IN Auburn WIFF-FM 105.5, because of Lagrange 105.5 [WIFF-FM to go to 102.3]; CO Colorado Springs KKFM 96.5, because of Evergreen 96.5 [KKFM to go to 98.1].

Dave Alpert, ABC, sent a news flash on PRN (Physicians Radio Network) shifting from land-lines to satellite to its network of SCA stations, with a claimed improvement in broadcast quality. And he sent an article on how Australian commercial AM broadcasters want also to be able to operate on the FM band. The government there is studying ways to more equitably distribute TV and radio services throughout the continent nation. The study would indicate ways new stations could be introduced alongside existing stations. "Under present regulations, AM operators are locked out of the FM arena, and the Federation of Australian Radio Broadcasters has been lobbying for their right to switch . . . particularly for regional AM stations that feel threatened with the introduction of an additional FM station under the government's plan . . . with an interim report expected by [the time you read this]."

More on Steve Tuura. Dave Nieman checked out the Sky-lon Tower in Niagara Falls, Ontario. "There is no sign of any FM transmitting antenna on it or the other observation tower." John Leon, says my SCA installation in his G-E table radio "sounds great," and he mentioned a classified ad in "Radio World" newspaper from the Christian Radio Network, East Rochester, NH, wanting to buy SCA receivers. I have been in contact with R. Malone, and sold him several Elif-I adapters and G-E Superadjos for his own converting to SCA. In a classified ad in *Religious Broadcasting*, it says: "South-central Alaska needs Christian radio. KGOD has CP for 60,000 watt noncommercial station. Need \$200,000 for equipment to place on air. Excellent investment potential. Write KGOD, PO Box 870989, Wasilla AK 99687 or call (907) 376-1195." It looks like even God can use help.

Fred McCormack sent a long pitch on behalf of KILI *90.1 Porcupine SD asking for financial help. The letter is signed by 77-year-old Nellie Red Owl, saying how her life has been helped for the better by KILI. "Your money can be added to that already donated by our own community to assure KILI's survival. It costs \$45.66 for us to broadcast for one hour. Your gift of \$25 would pay for one news broadcast, \$50 would bring a tribal council meeting live to the entire reservation, \$100 pays for one week of maintenance on our equipment. Any amount you can contribute will provide opportunities for our youth and companionship for our elderly. . . I know you will feel rewarded when you know that somewhere on this vast land, there once we lived and prospered on 100 million acres, there is a small territory where hope is returning. . . If we are known to you only as the people of Sitting Bull, Crazy Horse, Black Elk, or Wounded Knee, you have the chance now to make us the people of KILI." No pretty KILI logo emblazoned the letter (as KINI *96.1 Crookston NE uses), but if you feel impelled to donate KILI's address is Box 150, Porcupine SD 57772.

The Denver Post mentioned KILI: "Even now, it's difficult to remember reservation life before KILI, so pervasive is its signal. Everywhere you go, in tribal offices, gas stations, and homes—some without electricity—KILI is on. Before KILI (the Lakota word translates roughly as 'all right, right on'), the reservation listened to white broadcasters from Rapid City or Nebraska. There was rarely news about their neighbors—except in scandals. And no Indian language."

Phil Boersma says the call change of WABM 101.7 to WQWQ (Muskegon Heights MI) "is a direct attempt to cash in on the WQWQ call letters—which belonged to a highly visible station with a reputation as a beautiful music station. All the recent changes on 104.5 have come in spite of the old WQWQ's ratings! WABM is trying to woo the disaffected beautiful music fans, without spending big bucks on promotion, so the call change to WQWQ is one way to do it, and probably a good way to 'cheat' on the Arbitrons, too."

Says Roger Winsor: "WEIU, as you can see, is a rock-based jazz, blues, rock progressive format. No mention of \$ in verie. Still 4-12 p. m. M-F only. I have re-joined the WTFDA. . . Broadcasting is pitiful. They don't even print grants except in vague wording with no details. I see Kankakee is getting 92.7. That is a mess of WMLA-WTJY most of the time."

In Pete Nolan's M Street Journal is quoted the FCC as announcing a "crackdown on stations not giving proper station identifications at the top of each hour and/or at sign-on and sign-off. Stations heard not complying with ID regulations during routine monitoring will be subject to fines of \$500 or more."

St. Louis area readers: Check out WMRV 101.1. Has it dropped jazz in favor of pop? A clipping Rich Noelke sent indicated it has. WICN Worcester MA has the same 67 kHz

NEW ALTERNATIVE MUSIC OUT OF THE COUNTRY
NEW 88.5 FM

400 to MIDNIGHT, MONDAY thru FRIDAY

- 400-4000 WGNV
- 50-50 WOL-FM
- 55-55 WYLS-FM
- 60-60 WYLS-FM
- 65-65 WYLS-FM
- 70-70 WYLS-FM
- 75-75 WYLS-FM
- 80-80 WYLS-FM
- 85-85 WYLS-FM
- 90-90 WYLS-FM
- 95-95 WYLS-FM
- 100-100 WYLS-FM
- 105-105 WYLS-FM
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- 160-160 WYLS-FM
- 165-165 WYLS-FM
- 170-170 WYLS-FM
- 175-175 WYLS-FM
- 180-180 WYLS-FM
- 185-185 WYLS-FM
- 190-190 WYLS-FM
- 195-195 WYLS-FM
- 200-200 WYLS-FM

talking book SCA as WERS Boston. "Also on main channel, they are announcing transmitter location at Worcester Science Center," says Larry Weil of this *90.5 station. "Pirate 90" 89.9 Toronto Island seems to be leaving carrier on fulltime . pretty risky business," says Saul Chernos. "Actually, I'm surprised they've not been busted. Windsor FM stations CRZC 93.9 and CJOM 88.7 have enjoyed some loosening of CRZC rules to allow for less Canada content in music so as to compete more effectively against Detroit stations, whether the changes are enough to give CKEZ a new format listing remain to be seen. Saul says he hopes to see me in Jamestown this summer, and I hope to be there, and see him again (as well as other WTFDA people).

George Mileon came through with a long article on college radio stations in the Boston area, such as WMBR 88.1, WDJM 91.3 and WMFO 91.5. Eight stations are listed, all between 88 and 92, and you might want to look at your "FM Atlas" to see what they might be. Sorry, no prizes for guessing them right!

David Sinclair writes about Canada time zones and sent a page from the BC phone book. It shows Sask. divided into two time zones and he says: "To my knowledge all of Canada observes DST—except the northeast portion of BC, and I believe eastern Saskatchewan. Note that the province of Newfoundland has its own time zone, one half hour ahead of Atlantic Time." [The same time as observed in St. Pierre and Miquelon—ed.]

From farther south, Waldo Bishop says WWBA 107.3 St. Petersburg FL "is a superior station—their stereo separation is best I've heard (on par with WKTZ) announcers are suave—the format reminds me of WQXR-FM New York City, except for content of music, of course. The clown I heard on WQZ [94.3 Q-94 Greenville AL] should do himself a favor and tune in WWBA and learn a few things."

Tracy Wood says WFGG *88.3 Fort Gordon GA is temporarily off the air. "I gess I heard WFGG during an unlicensed 'burn-in' period. The station will play mostly rock n' roll with some black-formatted programming . . . No sign of the 107.7 WMHK relay in North Augusta. It would be a real spectrum waster, as WLPE and WMHK are both Moody full-timers.

OFF THE AIR: James E. Thomas sent an article on an "AM-FM (commercial) going off air due to lack of funds—a first for this area! I had been trying to pick the stations' signal up the last couple weeks, then came across this article; no wonder I never found them!" He promises to send any other articles he sees about the Branson (MO) station, and I will pass news on that I might hear. Article from the Springfield MO, "The Daily News," is entitled "Static Filling Radio Station's Time on Air—Lack of Cash Halts Taney County Sound." This is the second shutdown in a month for KRZK 106.3 FM and KLCO AM; the first was caused by employees not being paid. They were then paid a portion of their checks, according to need and as money came in, and then Contel Telephone cut off service at 2 p. m. Mar. 24, rupturing the link from the studio to the transmitter. Owner Don Holley of Fort Smith AR could not be reached for comment; he had no phone listing at home. The article quoted George Enont, assistant chief of engineering for the FCC FM branch in Washington that reports of a station going off the air can affect future FCC licensing. "That information and other items such as complaints from listeners could have a bearing on the FCC's review when a station's license is up for renewal." The owner was reportedly trying to sell the stations to a CA company. The Springfield paper had a large, half-page photo of Jae McFerron, former program director, seated at the station's console, but he has since left and taken another job. "I feel there are a lot of people in this town that want to listen to a (local) station," he said.

New on air with 100 watts is WXPL *91.3 Fitchburg MA, located on the campus of Fitchburg State College; (617) 345-0276. I show them as 100 watts horizontal only at minus 135 feet and no stereo. Other information from Michael A. Burke.

Mike Beckett reported on several central TX format

changes, and "as of 11-85 KRCT 94.3 Ozona TX was still mono. I went thru there on my way to Austin. I couldn't believe it; a mono FM station!"

Greg Monti sent an article, "Public Radio Web is LIU Goal," mentioning attempts to link WPBX *91.3 Southampton, WCWP *88.1 Brookville and WXBA *88.1 Brentwood NY. This would bring NPR programming to areas of NY that are not reached by WNYC-FM or by CT Public Radio. Officials make the point that Long Islanders should not have to rely on New York city or Connecticut stations for NPR programs, and that the network would upgrade the quality of student training in broadcasting. But the proposal has drawn protests from students at WPBX, with 23 of 28 workers signing a petition arguing that NPR would crowd out their own programming. "Full NPR membership would mean a deejay sitting and flipping switches to get the satellite tuned in, and that's not what an educational experience is about," said Jennifer Blanc, WPBX's music director and a student spokeswoman.

To counter the protest, LIU would start an AM carrier-current station on the campus, as is already the case at the C. W. Post campus in Greenvale. Each FM station would increase its broadcast day to 18 hours. Nothing said about stereo, whether WXBA and WCWP would embrace it or not.

I have the program guide from KANZ-KZNA in western Kansas, and Jim Skinner, chief engineer (and one of my SCA customers) advises people on improving FM reception, such as checking to see if your TV antenna might be designed to block FM, and to consider replacing your radio. "Radios vary greatly in sensitivity, and the quality of reception is not necessarily indicated by the cost." He is interested in tunable SCA radios, which the FCC told him is OK in his part of the state, since the primary station and translators (all with the Kansas Audio Reader, originating at Lawrence) are on widely varying frequencies. KCGN 101.5 Ortonville MN tells me that the Clara City MN translator has not been approved yet, "and everything takes time."

Ralph Strobel tells me that 106.3 in Columbia City IN is still off the air, and he too mentioned that WSGS 101.1 Hazard KY is still without stereo.

Larry Fuss: "I found the 'tower' of WMVV in McDonough (GA). It's one bay mounted on a pole atop a Hallmark Card shop in downtown McDonough. There's even a TV receiving antenna on the mast above the FM bay." And he enclosed an article concerning WBUS 96.7 Newnan GA. "SIGNAL PROBLEMS: WBUS FM, the Newnan-based station which started trying to broadcast its black-oriented programming to the Atlanta area in mid-October, told its on-air employees this week that they're all going to lose their jobs and be replaced by a satellite-delivered syndicated programming service. The change . . . is the result of problems with the station's transmitting signal, General Manager Rich Greener says. 'We had planned on competing as a major station in a major market, but when we turned the station on, we discovered we had a major signal problem and nobody was hearing us. So we were spending a great deal more money every month than we were making.' It turns out the station's spot on the dial, 96.7, is too close to 96 Rock's 96.1 for listeners in Atlanta to be able to tune it in clearly. The only solution, Greener says, is to try and get the FCC to give WBUS a new frequency, an iffy process that could take more than a year." Current programming is a black-oriented oldies format heavy on Motown hits, and this will enable the station to cut costs and stay in business. Larry says: "It's hard to believe that the owners and manager of WBUS could be so stupid! A 'major signal problem' indeed! As a matter of fact, WBUS has a good signal, but it just cannot penetrate the tall buildings and congestion in downtown Atlanta, 30 miles away. Their plans to have WBUS 'competing as a major station in a major market' appear to have been wishful thinking at best. Perhaps these supposedly knowledgeable radio people should reevaluate their plans and let WBUS revert to being a Newnan radio station, because that's all it ever will be anyway. As for a possible frequency change . . . gimme a break! These people need to quit dreaming and come back down to

earth. The 96.7 allocation at Newnan is already short-spaced to WKLS-FM (it was grandfathered). There are NO other FM channels that will work on the south side of metro Atlanta."

Nick Lombardi: "Since you have eliminated networks from Part I of the Station Directory (in the 10th ed. FM Atlas) and have added 92 kHz SCA, the amount of space available is the same. The way you have decided to show the two SCA frequencies (separated by commas) is excellent provided you can maintain exact and accurate column alignment. Be sure to remember, however, that you will need a separate listing of 57 kHz SCA stations, indicating whether they are data (†X) or ARI (†RT). I think ARI is sufficiently unique to warrant its own code." And so does Blaupunkt-ARI, but I disagree. All ARI is a dead carrier, unless a tone is used to activate something else the rare times it is used. For the reason I do not list telemetry stations with rare tones or other SCA stations with dead carriers I do not list ARI, but I may mellow some day! And 57 kHz paging is tone only and does not seem sufficiently interesting at this time to warrant its own column in a book where space and typing time are both at a premium.

Fr. Charles Manning, Newman House chaplain, State University of New York-Genesee: "I hope the info I've given you will help you in compiling the massive material you must have as you prepare the 10th edition of the 'FM Atlas.' You have my prayers and best wishes for your efforts. There are many of us 'out there' all over the continent anxiously awaiting the next 'FM Atlas.' Your work in the electronics and broadcasting field excites me. I seem to have an insatiable and unrelenting appetite when it comes to SCA, subcarriers and FM broadcasting stations . . . After more than 10½ years as a priest, I kind of see myself as a 'frustrated broadcaster.' One of my parishioners is the program director of WUHF-TV, channel 31, in Rochester. He says that I know more about what is going on with Rochester's stations than the 'professionals' do! Hang in there! And thanks." He speaks of WUWU 107.7 Wethersfield as his favorite station. "Excellent sound quality. They play big bands, jazz, light pop-rock, easy listening, comedy cuts and have live announcers. Polka music on Saturday/Sunday mornings. No network."

Public Radio Web Is Planned by LIU (see story preceding page)



Jenny Blanc, left and Ethel Wagner confer at WPBX



Chief Engineer of the Kanza Society, Inc. Jim Skinner and Bogue, Kansas, volunteer Doug Kysar are hard at work already at the tower site near Hill City. Sign on of KZNA-FM, KANZ's sister station is expected by early summer. The station will broadcast a full 100,000 watts.

CONTRIBUTORS: David R. Alpert, New York NY; W. M. Beckett, Monahans TX; Waldo F. Bishop, Tallahassee FL; P. L. Boersma, Spring Lake MI; Michael A. Burke, Westminster MA; Saul Chernos, Paris ON; John F. Combs, Jacksonville FL; John Ebeling, Bloomington MN; Max Engel, New York NY; Eric Fader, New York NY; Larry Fuss, Jackson GA; Paul L. Gaines, Detroit MI; John M. Jeffarson, Pleasanton CA; John Leon, New York NY; D. Gary Leonard, station manager, KMBI-FM Spokane WA, who says their SCA is used for telemetry from their remote transmitter site (107.9). Also: Nick Lombardi, Atlanta GA; Charles B. Lowell, Minot ND; Eldon Sanders Luoma, Port Coquitlam BC; W. R. McIntosh, Granada Hills CA; Fr. Charles T. Manning, Genesee NY; Fred McCormack, Fargo ND; Frank Merrill, Macomb IL (formerly of Toledo OH); George J. Mileon, Lynn MA; Gregory P. Monti, Arlington VA; David J. Nieman, Akron NY; Rich Noelke, Washington MO; Pete Nolen, Houston TX; new club member Alain Petit, St. Johns PD; Keith O. Pugh, New Hope PA; Michael Reid, North York ON; David A. Sinclair, Vancouver BC; Ralph Strobel, Muncie IN; Brain M. Taber, Rochester NY; James Eric Thomas, Republic MO; Lois Tollefson, KCGN, Ortonville MN; Larry Weil, Acton MA; Phil Walls, chief engineer, KLZZ San Diego CA; Ben R. Wilkie, York ME; Roger Winsor, Champaign IL; Tracy Wood, Hephzibah GA.

The skip season's just about here! 731h,

Bonus

WESTERN TV-DX

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

Deadline: 6-6-86

May 1986

There is some nice DX reported this time around. Pat Dyer reported F2 and possibly TE reaching channel 2 during the geomagnetic storm of February 8th.

The balance of the DX is primarily tropo with good dates including February 20, 26 in Texas and February 21, 22 and March 11, 12 in the midwest.

New _____ New Mode _____ Tent. - t Unidentified - unid S/On - + S/Off - =
ID Color Bars - @ - Unid Color Bars - % IHTP - ø Misc. Test Patterns - &

SO = Sonora

Pat Dyer, 5315 Silvertip Drive, San Antonio, TX 78228 (WA5IYX) CST

Equipment: 1980 model Penncrest 9" black and white, Archer V-100 and eight bay bow tie UHF array at 20 feet with rotor.

February 1986		20 tr		26 tr	
8 F2 1315-1328 unids ch2 se	2004	WLAET 32 LA	26 tr 2137	WLPBT 27 LA	
?? 1741 unids ch 2 se	2059	KL.PAT 25 LA	2159	KADN 15 LA	395
F2 bs 1810-29 unids 2 sw	2159	KLTL 18 LA	325	WMPV 21 AL	630
F2, TE? 1920-2045 unids 2 (Southeast)	2204	WNOL 38 LA	510	2200	WJTC 44 FL 685
	2205	KLFY 10 LA	395	2233	WRBT 33 LA 450
10 Es 1125 unids ch 2 sw	2206	KPLC 7 LA	325	27 tr 0034	WVUE 8 LA 510
1136 XHPDT 2 SO 895 (Puerto Penasco)	2210	WVUE 8 LA	510	0116	WGNO 26 LA 510
	2216	WMAUT 17 MS		0138	KPLC 7 LA 325
1155 fade/outs	2225	WMPVT 21 AL			
15 tr 2215 WAPTT 16 MS	2227	WJTC 44 FL 685			
	2227	WRBT 33 LA 450			
	2233	WNOL 38 LA 510			
	2305	WMAH 19 MS 570			
		KL.PB 24 LA 395			
		WRBT 33 LA 450			
		WAFB 9 LA 450			
		WDSU 6 LA 510			
		0438 KATC 3 LA 395			
		0050 KBMT 12 TX			
		0105 KPLC 7 LA			
		0110 WLAE 32 LA 510			
		0131 WAFB 9 LA 450			
		0151 KPLC 7 LA 325			
		0203 KLFY 10 LA 395			
		0221 KL.TJt 49 TX			
		0234 WGNOT 26 LA			
		0304 WTVA 9 MS 665			
		0308 KNOE 8 LA 450			
		0633 KFDM 6 TX 275			
		0713 KADNt 15 LA			
		KLTLt 18 LA			
		KL.PBt 24 LA			
		0812 WLAE 32 LA 510			
		0813 WNOL 38 LA 510			
		0816 WJTC 44 FL			
		0820 WMAHt 19 MS			
		0824 WMAUT 17 MS			
		0829 WRBT 33 LA 450			
		0829 WMPV 21 AL 630			
		1027 KADN 15 LA 395			
		1032 KARDt 14 LA			
		1034 KBMTt 12 TX			
		1058 KPLC 7 LA 325			
		1059 KVHP 29 LA 395			
		1943 WBRZt 2 LA			
		WGNOT 26 LA			
		WJTVt 12 MS			
		2001 KADN 15 LA 395			
		2108 KVHP 29 LA 325			
		2110 WLAE 32 LA 510			
		2132 WNOL 38 LA 510			
		21 tr 0123			
		0159 KADN 15 LA 395			

The February 8-9 magnetic storm is likely to have been the strongest of this sunspot cycle (judging by the Boulder A indices). Aurora from the New York City area was noted on

Western TV DX

May 1986

Pat Dyer (continued) 50 MHz, though it was likely an Es link into it (unlike the direct TV seen here on July 13, 1982). The F2 effects on the TV were just as frustrating as always without any audio for the ID's, etc.

Very hot weather in February (upper 90's at times) created a good bit of tropo up to the 600+ mil range on several days.

73, Pat, WA5IYX

Nathaniel Ely, 1237 East Johnson St., #2, Madison, WI 53703 (608)-257-5220 CST

Equipment: Quantum 1110, Spartan II VHF preamp (0061) from Chmstr; C.M. 7' dish with 4990 preamp at 61', 70'/30' runs of .412/RG-11 cable, H-D 73 rotor. Winegard DA-405 post amplifier (when locals off the air), 3 Channel Master 7206 "Hi Q" traps (UHF). Tower, QDMX MD-56 (free standing).

January 1986		22 tr		12 tr	
12 Es 1859	WCBd 2 SC 890	0518	WTVV 33 OH 460	0206	WJET 24 PA 465
20 tr 1451	WKSO 29 KY 480	0536	WKBN 27 OH 460		(AN music video)
	1453 WKHAT 35 KY	0600	CBCE 16 ON	0226	WDLI 17 OH 420
	1456 WGRBT 34 KY		(ID - "MCTV-CBC")		@WAKR 23 OH 420
24 tr 0215	WKDSM 17 IA 245			0251	WPXI 11 PA 505
	(x KCBR)			0335	WTOV 9 OH 485
				0430	@WTTT 28 OH 405
					@WOIO 19 OH 400
					0445 W26AA 26 NY 510
					(Jamestown WNET-17)
					0516 WPTT 22 PA 505
					0520 @WNEO 45 OH 445
					@WEAO 49 OH 415
					0551 @WOAC 67 OH 420
					0558 +CIC059 59 ON 350
					0627 @WBNX 55 OH 420
					0157 @Etumwa 33,74,76
					(33 w/WISN, 74 w/WQAD)
					0209 KSHB 41 MO 400
					0220 K5HAF 54 IA 200
					(Keosauqua KIIN-12)
					0235 K6OCLT 6 IA
					(Keokuk PTL?)
					(Rel mx o/WBBS)
					25 tr 0130 WMMT 3 MI 165
					(x WKZO)
					29 tr 0844 KDSBT 16 SD
					0844-1030 Many s MN x1
					1030 KWCM 10 MN 355
					(Pioneer Public TV rolling through KTTC)

Frank Merrill swung through here in January on one of his marathon record forays. It was fun talking DX with him though he could stay no longer than a night.

The evening of March 11th into the early morning of the 12th brought some very good off season tropo. Apparently tornadoes swept through northern Kentucky, southern Indiana, and southern Ohio earlier that day. The tropo conditions continued to build throughout the night and allowed reception of a number of stations that hadn't been seen in almost two years.

On WJBS-47 from Altoona, Pennsylvania; they are religious programming and are parallel to WPCB-40 from Pittsburgh. These two stations refer to themselves as "CTV" which stands for "Cornerstone Television." They give a dual ID, so perhaps WKBS-47 should be considered a satellite of WPCB-40.

Probably the best catch of the night was W26AA in Jamestown, New York. I signed them on and got a rather weak photo. It's interesting to note that this allocation will someday be turned over to WNOD-26 and will become a new DX target.

I hooked up my digital multimeter to the AGC of my Zenith 1310 as per Tim McVey's article. It was very easy, and I think it will be a useful tool for evaluating equipment changes.

That's all from Mr. Nate's House of TV-DX. Call me hungry for E skip. 73, Nate

William Eckberg, 1032 Sterling Road, Dixon, IL 61021

CST

Equipment: 1966 Zenith b&w tube receiver ch 14N22, modified Zenith 175-1953 detented tuner. Channel Master 1110 VHF antenna. Channel Master 7 foot UHF parabolic antenna with Winegard PA4975 preamplifier on a 40' tower.

March 1986	12 tr 0200	WTAJ	10 PA	571	12 tr 0445	WOIO	19 OH	401
11 tr 2330	WFAT	19 PA	549	0220	WPGH	53 PA	491	0447
12 tr 0140	WAKR	23 OH	404	0230	WPXI	11 PA	491	21 tr 0517
0145	WKBS	47 PA	571	0400	WPCB	40 PA	518	28 tr 0510
0150	WKBN	27 OH	450	0430	WJET	24 PA	48T	0600
								WCAY
								30 TN
								408

Highlight of the month was an early AM tropo opening to the east on March 12. WFAT-19 was snowfree. The reception area was limited.

WSCO-14 in Suring, Wisconsin at 231 miles was snowfree just before sign/off on March 11. I'd logged them twice before with a poor signal. They claimed to be transmitting at 30-40% full power. I believe full power is 400 kW. They needed pledges of \$19,000 to replace a defective klystron.

John Jefferson, 4016 Crest Ct., Pleasanton, CA 94566

MLT?

Equipment: JVC AH-7200U VCR as tuner (with Hitachi CT-922 as monitor) fed by a Channel Master VHF antenna and a Winegard CH-9095 UHF antenna. Both are on a 20' mast, about 35' off the ground, the UHF is 3' higher, with Winegard AC-4990 preamp (and separate lead).

Well, time for a pre-skip season report. The quantity is limited, as is the quality, but at least there's something to submit! As always, underlined entries are new loggings.

Regarding the 1984 entry, it's something that went down as a unid, but turned out to be identifiable on the VCR tape when I finally got around to editing the tapes last fall. (Dad remarried so I babysat his VCR during the honeymoon, providing a long awaited opportunity.)

March 1984	September 1985	March 1986
12 Es 2130	KDLT 5 SD 1285	26 tr 2200
	(Weak u / KPIX)	KCPM 24 CA 140
		(First day on)
		18 tr 2118
		K62BT 62 CA 90
		(Placerville
		LPTV)

K62BT is of some interest, though it's not much as DX. It's my first LPTV logging. They're a 24 hour gospel station, evidently originating locally in Placerville. For months, they drove me crazy with a picture too faint to identify and no audio. On March 18, they had audio and a sufficient picture to give me the area code and prefix of the displayed phone number. Actually, I had all but one digit right when I called information for any station (strikeout) or church (jackpot) in that area, and that digit seemed to toggle back and forth between 5 and 3 about once a second. (It was a 3). They admit to 100 Watts TPO and 1100 Watts ERP.

Well, that's all for now. Let's hope the E skip returns in force this year!

Fred McCormack, 135 Prairiewood Drive, Fargo, ND 58103

CST

Equipment: VHF: Broadmoor 9" black & white, Winegard CS-4053; UHF: Teknika 6510 tuner, Winegard CH-9095, Blonder-Tongue CMA-Uc pre-amp; Alliance rotor.

March 1986	28 tr 0841	K51AL	51 MN	175	28 tr 0907	KHIN	36 IA	390
28 tr 0828	KDSM	17 IA	385	(Olivia	WCCO-	4)	0908	K33AB
0830	unid ch	58 STV		K53AO	53 MN	175	(Sibley	KSIN-27)
0833	K22AE	22 MN	215	(Olivia	WUSA-11)		0910	K28AE
(New Ulm	LPTV)			K55CK	55 MN	175	(Fairmont	LPTV)
0839	K25AA	25 IA	245	(Olivia	KMSP-9)		K44AD	44 MN
(Rock Rapids	KSIN-27)			0852	KYNE	26 NE	390	(St. James
0841	K49AJ	49 MN	175	0906	KXNE	19 NE	320	0916
(Olivia	KSTP-5)			0907	KSIN	27 IA	300	0917
								KEYC
								12 MN
								235

It is nice to have something to report again. Conditions have been so bad that I have wondered if my UHF equipment has become defective. I seldom see former regulars like KTMA-23, KLTN-29, and KXLI-41. Perhaps it is conditions, perhaps it is my equipment, or perhaps it is the 89 unit 3 story apartment building newly constructed behind my house!

On the 28th at 0841, K53AO had a good picture without CCI from WUSA-11, but had good audio from WKBT-8! How on earth could that situation develop? Any ideas?

TELEVISION NEWS

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

APPLICATIONS FOR NEW TELEVISION STATIONS	
CH ERP HAAT STATE/CITY/APPLICANT	
50 5000 960 CO Denver; Amador Broadcasting	
50 4677 2089 CO Denver; Continental Divide Television Partners Ltd.	
50 5000 2000 CO Denver; Denver Communications	
50 5000 962 CO Denver; Lomas de Oro Broadc'g	
50 661 808 CO Denver; Spanish International Communications Corporation	
50 5000 1500 CO Denver; Stanley Group Broadecg	
50 5000 327 CO Denver; Urban Minority Be'ng	
59 4675 2061 CO Denver; Gilbert W. Brassell	
59 5000 1646 CO Denver; Mountain States Telecasters	
59 5000 1109 CO Denver; High Seas Communications Corporation	
59 5000 1176 CO Denver; Sky High Telecommunications Company Ltd.	
8 316 1965 NC Morehead City; Local Television Associates Ltd.	
65 5000 2000 VA Blacksburg; New River Communications Inc.	
65 5000 876 VA Blacksburg; Southwest Virginia Television	
64 5000 623 VA Charlottesville; Christopher Gault	
62 5000 357 NJ Atlantic City; Haughton Television	
APPLICATIONS DISMISSED	
NJ Burlington; ch. 48; Burlington Broadcasters Ltd.	
CA Ventura; ch. 41; KFG'85.	
FL Naples; ch. 46; Naples Broadcasting Inc.; Naples Television Associates Limited Partnership.	
MS McComb; ch. 28; Robin C. Brandt.	
CONSTRUCTION PERMITS GRANTED	
27 3890 2330 CA Coalanga; Western Educational Coalition	
22 486 388 FL Panama City; Board of Regents of Florida, Acting for & on Behalf of Florida State University	
59 102 680 KY Bowling Green; Western Kentucky University	
46 5000 720 FL Naples; Meycom Inc.	
CONSTRUCTION PERMITS CANCELLED	
NC High Point; ch. 67; WIUW	
TX Denison; ch. 20; KLDS	
APPLICATIONS TO MODIFY CONSTRUCTION PERMITS	
35 5000 1366 IL LaSalle; WWTQ-TV	
38 5000 1101 KS Lawrence; KMCI	
27 871 377 NM Roswell; KRPV	
35 324 558 PA Philadelphia; WYBE	
21 3000 1590 SC Florence; WSMF	
14 4457 1437 TX Houston; KHBU-TV	
49 2970 880 VA Norfolk; WJCB	
32 9.3 971 PR Aguadilla; WKKU	
16 219 1137 PR Mayaguez; WTRA	
22 200 1137 PR Mayaguez; WNUX-TV	
26 434 991 PR Ponce; WPTO	

CONSTRUCTION PERMIT MODIFICATIONS GRANTED	
58 5000 1214 CA Stockton; KSCI-TV	
20 5000 519 IA Iowa City; KICI-TV	
32 9.3 971 PR Aguadilla; WKKU	
60 5000 936 NH Merrimack; WGTQ	
44 5000 1812 TX Waco; KWKT	
APPLICATIONS FOR CHANGES IN EXISTING STATIONS	
9 316 1179 NC Charlotte; WSOC-TV (CP)	
4 100 1425 TN Nashville; WSHV (CP)	
28 247 1402 VT Rutland; WVER (CP)	
31 2800 1560 NY New York (MP)	
CHANGES GRANTED IN EXISTING STATIONS	
CA Los Angeles; KCBS-TV, ch. 2, granted CP to reduce ERP from 46.8 kw to 36.3 kw max; 3632' AAT/934' AG/6589' ASL (about 465' higher); same TL. Should be no change in coverage area.	
CA Stockton; KOVR-TV, ch. 13; granted CP to raise ERP from 281 kw to 316 kw max; 1950' AAT/1960' AG/1960' ASL (412' higher ASL); TL to antenna farm 0.65 mile east of Walnut Grove, on same tower proposed by KKTV (ch. 10, Sacramento); coordinates 38°14'24"/121°30'03" (0.45 mile north of present TL).	
LA Lafayette; KALM, ch. 15; granted CP to change to 1000 kw max; 1300' AAT/1312' AG/2210' ASL. Station already has an outstanding MP with same height ASL, but 159' higher than ground. I can't explain the discrepancy, or why they were granted a CP when there was already an MP.	
HO Springfield; KSPR, ch. 33; granted CP to raise ERP from 1120 kw max/935 kw hr to 5010 kw max; 1995' AAT/3390' AG/1816' ASL (I suspect they meant 1816' AG and 3390' ASL, in which case the transmitter will be 961' higher AAT and 826' higher ASL); TL to 4 mile north of Fordland; coordinates 37°13'08"/92°56'56" (same coordinates as KOLR-10 and KOZK-21; Az 344°, 1.24 mile from present TL).	
OH Lorain; WUAB, ch. 43; granted CP to raise ERP from 1239 max/1030 hr to 5000 kw max; 1071' AAT/886' AG/1938' ASL (33' lower than present height); same TL.	
OK Sayre; KVIJ-TV, ch. 8; granted CP to raise ERP from 26.3 kw to 74.9 kw max; 580' AAT/629' AG/2749' ASL (18' lower); same TL.	
PA Scranton; WDAU-TV, ch. 22; granted CP to raise ERP from 1383 kw max to 3580 kw max; 1411' AAT/569' AG/2669' ASL; TL to Penobscot Mountain antenna farm, Hanover Twp. (same area as WNEP-16 and WJIA-44); coordinates 41°10'58"/75°52'26" (Az 201°, 18.07 miles from present TL, which is near WOLF, ch. 38)	
PA Scranton; WOLF-TV; The above reminded me to mention that WOLF-TV now seems to be operating at a much greater power than it had been; probably now at 3700 kw, which it supposedly has a license to operate.	
TN Chattanooga; WRCE-TV, ch. 3; granted license to cover CP for change; see 11/85 TD.	
TX Lufkin; KTRV-TV, ch. 9; granted license to cover CP for changes; see 11/85 TD.	

WDAU 22

ST. LOUIS, MISSOURI

THANKS!

All of us at the New WDAU TV-22 want to thank you for your patience during our recent switch from old to brand new transmission antenna. It's now on place and working at full power (we're glad Hurricane Gloria's gone her way, too). So you've got the picture, and we've got the touch.

Thanks for staying with the New WDAU!



...and a special thanks to all the Cable systems in our viewing area...

The New WDAU

The Pride of Pennsylvania

WA Seattle; KCTS-TV, ch. 9; granted OP to increase ERP from 275 kw to 316 kw max; 827' AAT/545' AG/1001' ASL (same elevation); TL at approximately the same place. Any improvement in coverage area should be barely noticeable.

SC Charleston; WITV, ch. 7; granted MP to increase ERP from 310 kw to 316 kw max; 1869' AAT/1865' AG/1881' ASL (979' higher AAT; 836' higher ASL); coordinates 32°55' 28"/79°41'58" (Az 43°, or northeast, 12.11 miles from present TL); TL 3.4 miles northeast of Ten Mile, east of Hwy 17-701, southeast of intersection with Sewee Road (same location recently granted to WCIV-4 and WCSC-5).

TX Harlingen; KLUJ, ch. 44; granted MP to increase ERP 9.2 kw max to 2138 kw max; 214' AAT/975' AG/972' ASL (537' higher AAT and AG; 541' higher ASL); coordinates 26°13'00"/97°46'48" (Az 309°, 7.36 miles from present TL); TL to 1.5 mile WSW of the intersection of Wilson Tract Road and Primera Road, near Primera.

NY Syracuse; WKAF, ch. 68; granted STA 1/31/1986 to operate with reduced antenna height until 4/21/86.

CALL LETTER APPLICATIONS: STATIONS ON THE AIR
 CH C.L. STATE/CITY/APPLICANT
 10 KFNE WY Riverton; KFWY-TV

CALL LETTERS GRANTED: NEW STATIONS
 69 WOST-TV RI Block Island; Offshore Broadcast
 31 KTNW WA Richland; Washington State U.
 30 WWRD NC Wilson; Wilson Telecasters Ltd.
 20 KTXO-TV CO Denver; KZOD

CALL LETTERS GRANTED: STATIONS ON THE AIR
 5 WNYW NY New York; WNEW-TV
 33 KDAP TX Dallas; KRLL-TV

NEW STATIONS ON THE AIR
 AL Birmingham; WCAJ, ch. 68, went on the air 1/31/86; Table of assignments in the Code of Federal Regulations has - offset, but data base from Larry Fuss has + offset. The + offset makes more sense because of its proximity to *68- in Toccoa, GA.

1297 kw ERP; 935' AAT/683' AG/1568' ASL; Coordinates 33°26'38"/86°52'47"; independent station; address: Celtic Media Inc., Box 59309, 800 Lakeshore Drive, Birmingham AL, 35259-9309.

AR Hot Springs; KRZB-TV, ch. 26z, went on the air 2/7/86; 244.9 kw max ERP; 936' AAT/525' AG/1465' ASL; TL to Jack Mountain, 6 miles south of Hot Springs; coordinates 34°22'20"/93°02'27"; independent station; address: PPD&G Inc., Box 3230, 125 Corporate Drive, Hot Springs, AR, 71914.

FL Pensacola; WHBR, ch. 33r, went on the air 1/26/86; 5000 kw max ERP; 1365' AAT/1330' AG/1472' ASL; TL to WPMI-15 transmitter site in Loxley, AL; coordinates 30°37'35"/87°38'50"; independent station; address: Christian Television Corporation of Pensacola-Mobile Inc., Box 18033, Pensacola, FL, 32523-8033.

KY Danville; WDKY-TV, ch. 56, went on the air 2/10/86; 2950 kw max ERP; 990' AAT/942' AG/1722' ASL; TL to west side of Hwy 150, 1.75 mile south of Orion, IL; coordinates 37°47'00"/84°40'45"; independent station; address: WDKY License Co., 434 Interstate Avenue, Lexington, KY, 40583.

SCHEDULED TO GO ON THE AIR SOON:
 AR Pine Bluff; KJTM-TV, ch. 38, plans to go on the air in April, 1986. 5000 kw!
 DE Wilmington; Channel 61, now using call letters WTGI-TV, plans to go on the air in May, 1986. Another badly needed indie for the Philadelphia area.

NETWORK CHANGES
 WV Huntington; WOWK-TV, ch. 13, is now, or plans to change, to CBS from ABC.
 WY Casper; KTWQ-TV, ch. 2, will change from ABC to NBC on 9/1/86. It has been broadcasting some NBC programs, but is primarily ABC. That will mean a change, possibly from NBC to ABC, of KKWY, ch. 20 in Casper, and of its satellite KFWY, ch. 10 in Riverton.

FORUM
 One correction on last month's column. I reported, "WHYY-TV, ch. 12 has not taken over WDBP, ch. 64 in Seaford, DE...." That should have read, "has now taken...." Oh, the difference that one letter can make! Other events in this area: WNUV-TV, ch. 54 in Baltimore, MD, followed WFTY-50 and dropped its SUPER-TV subscription service. WNUV-TV is now independent, as of April 1. To the best of my knowledge, that leaves WTVE, ch. 51 in Reading, PA, as the only full power television station to be operating STV. LPTV station WO8CC is evidently on the air in Hammonton, NJ, broadcasting nothing but very old movies, but I have yet to see the slightest trace of the station. According to the 3/26/86 Camden Courier Post, WTGI-TV, ch. 61 in Wilmington, DE, completed its 960-foot tower near Woodstown, NJ, but I haven't been there lately to see it. The station plans to be on the air by May 12, but could be on as early as late April. One major cable company One major cable company already said that it won't carry the station. According to the 4/3/86 Philadelphia Inquirer, the FCC granted

a construction permit to Family Television Network for channel 59 in Vineland, NJ. Family Television is a subsidiary of Omega Broadcasting Corporation, a religious organization in Cheltenham, PA. The station will be about half religious programs and half family-oriented programs. Competing applicant Rita Wyse dropped her application after being paid \$300,000 for expenses. The transmitter will be only nine miles from my house.

In time for skip season, this month's column includes a complete list of broadcast stations in the United States on channels 2 thru 6. The columns should be pretty much explanatory. All we need now is the skip, but I expect this summer will be worse than the past two summers.

Phil Boersma sent a news release from Miami Valley Christian Television, the CP holder for WKMT, ch. 54 in Muskegon, MI. This says that they will not be using those call letters when they are on the air. The owners hope to have the station on the air by early fall, 1986. "Licensed to Muskegon, the station will serve an eight county area surrounding the Allendale tower site." "Channel 54 will be West Michigan's first full-time religious television station and will feature selected programmings from several Christian satellite networks and national syndicators as well as locally produced programs of interest to the West Michigan community."

Nate Rly reports that WMSN-TV, ch. 47 in Madison, WI, began construction of its transmitter tower on 3/27/86. "Looks like they may be on the air by May after all." He also sent some clippings that were sent to him from KMLJ, ch. 25 in Jefferson City, MO. "When KNLJ Channel 25 signs on the air Easter Sunday at 3 PM in Jefferson City...." "...the KNLJ Channel 25 studios, 1 mile south of New Bloomfield or 9 miles north of Jefferson City on Highway 54. Just look for the sign and the 940 foot tower." The schedule seems to be mostly religious programs, evidently of local origin, because none of the names are at all familiar. Syndicated programs are kept to a minimum, and the films are scheduled according to classical, western, family, or religious. There seems to be a large number of programs of a musical nature, but again, many of the names are not familiar.

George Mileon sent a clipping from the 4/5 Boston Globe. Storer Communications may be putting its Boston station, WSBK-TV, ch. 38, up for sale. That will make the third UHF indie in that area to be up for sale. WXNB-TV (ch. 25) and WQTV-TV (ch. 68) are also up for sale.

Dave Nieman reports a few new TV stations on the air. WKAF (reported on last month) has religious programs, but is limited to the evening hours. Two Canadian stations both repeating CICA-TV, ch. 19 in Toronto (TVO) are CICO-TV-??, ch. 38 in Kingston, Ontario (62.78 kw ERP) and CICO-TV-??, ch. 53 in Belleville, Ontario (61.3 kw ERP).

While we're in Canada, let's go to William Hepburn, who reports on stereo stations in

Canada. (By the way, can anybody tell me if the CRTC adopted any standards on stereo TV, or are they letting the market play the game like the FCC is doing?) CFTO-TV, ch. 9 in Toronto is stereo, but hasn't been promoting that fact. CFMT-TV, ch. 47 in Toronto has been calling itself "Stereo 47". CITY-TV, ch. 57 (formerly ch. 79; I didn't know if they had changed their channel yet) is also stereo. United States station WGRZ, ch. 2 in Buffalo, NY, is stereo, "Stereo-2" and even the Sabres hockey games are in stereo.

David A. Sinclair sent in a few Canadian articles. From the Winnipeg Free Press, a report that the CRTC granted approval for eight cable TV companies to drop the NBC and CBS affiliates in North Dakota in favor of Detroit stations via CANCOM satellite. But the CRTC would not allow the companies to drop the ABC and PBS stations. Prairie Public Television is thrilled with the decision, since 44% of its donations come from cable viewers in Winnipeg. Winnipeg broadcasters were unhappy with the decision, since they will find it more difficult to compete with the Detroit stations. On the issue of donations to PrairiePublic Television, the 2/13 Winnipeg Free Press reports that Revenue Canada, which had revoked the tax exempt status of PPT in Canada in 1983, hasn't decided yet whether to recover money from thousands of contributors who claimed deductions for their donations to PPT. According to the 1/7/86 Winnipeg Free Press, Videon Cable TV is considering the possibility of picking up the station. They are checking out availability of the signal, possibility of approval by the CRTC, and public opinion.

Back to the letter from Rich Turcsany that I started last month. "...there is now an ATV (Amateur Television) repeater station located atop the World Trade Center in NYC and...its signal has been seen as far as Coventry, CT (110 miles away)." Frequencies used for ATV:

video audio	Repeater output
421.25/425.75	Simplex output
426.25/430.75	simplex/repeater input, western U.S.
434.00/438.50	simplex/repeater input, eastern U.S.

"These frequencies should be able to be heard on many of the newer scanners that tune the 410-450 Mhz ham band, and if there are any DXers who could provide info on ATV use in their local areas, I would appreciate it if they could write to me." That is, 37 Windsor Place, Fairfield, CT, 06430. Other news from Richard: KLXV-TV, ch. 65 in San Jose, CA, plans to be on the air in 4/86. [They got their construction permit five years ago.] KXLV will be a Christian station. Other stations expected to go on the air soon are: WBNA-21 (Louisville, KY, Christian station); WJPR-21 (Lynchburg, VA); KPEJ-24 (Odessa, TX, which might become ABC) [What? with KMHV-TV bathing Odessa with its glorious 68 dbu replete with The Fall Guy, Love Boat, and Ripley's Believe It or Not?]; WPXT-51 (Portland, ME); WCAJ-68, Birmingham, AL [now on];

WLKT-62 (Lexington, KY); WTHX-8 (Johnstown, PA, to be ABC); and WMSN-47 (Madison, WI, which will air Brewers BB games). Stations operating in stereo: WNEV-7 (Boston, MA); WUIT-30 (New Britain, CT); KTHH-67 (Alvin, TX); WETO-39 (Greenville, TN); WUPW-36 (Toledo, OH); and KPMA-23 (Minneapolis, MN).

Several small articles from Paul Gaines. CBN News Tonight, a nightly half hour of news from the Christian Broadcasting Network, went into operation 1/27/86, but ceased after two months of operation. There weren't enough advertisers supporting the program. Detroit station WTVS-TV, ch. 56, is working with Detroit Public Schools to produce a series of televised town meetings to reduce the city's high dropout rate. Members of the Masonic Lodge are suing the widow of the lodge's founder, Ivy Banks, for control of WGRP-TV, ch. 62 and radio station WGRP-FM in Detroit. The founder, William Banks, bought the radio station in 1964, and built the television station in 1975, using his money and the lodge's money. Ted Turner is planning to create what he calls the Goodwill Games, which will be similar to the Olympics, pitting Russian athletes against American athletes. He's still trying to get sponsors to support the idea. A cute clipping about WXYZ-TV, ch. 7, which I shall quote: "Channel 7 launched an advertising campaign with the theme, 'Stand up and tell them you're from Detroit.' The station's headquarters are in Southfield." Lastly, an article on home satellite dishes. Here are some statistics: dish sales in the past several years were: 5,000 in 1980; 38,000 in 1981; 130,000 in 1982; 290,000 in 1983; 515,000 in 1984; and 700,000 in 1985. But numbers of sales dropped to half of last year's level. Dealers are complaining that cable companies are trying to give the impression that scrambling will make the dishes worthless. The satellite dish industry plans to fight the drop in sales by launching a major advertising campaign. Sympathetic legislators have introduced several bills in congress calling for a moratorium on any more scrambling for two years while they study its impact on the satellite dish industry. Another bill would require that pay-TV services charge fair and reasonable fees. HBO, for example, is now requiring that viewers by satellite purchase a \$95 decoder and pay \$3 monthly, more than the cable companies charge for HBO.

I wonder if the drop in dish sales could be partly or mostly due to a market saturation: maybe most of those who want them and can afford them already have them. Maybe instead of blaming HBO and other potential scramblers, we might wonder if there just aren't too many potential customers left.

Several articles from W.R. McIntosh. The 2/28/86 Los Angeles Times talks about the reaction to the court's decision against the FCC's "must carry" rule. The FCC has been considering how to replace the ruling with one that would be acceptable to both the cable industry and the broadcasting industry. The FCC had been open to comments from both sides. Meanwhile broadcasters and cable

interests reached a compromise, which they will propose to the FCC. The compromise would require larger cable systems to carry more non-cable channels than would be required of smaller systems. In the agreement, cable systems with 20 or fewer channels will be exempt from any "must carry" rule. That covers about 6% of the nation's 40 million cable subscribers. Cable systems with 21 to 26 channels would be required to carry no more than 7 local channels. Cable systems with more than 26 channels will be required to devote no more than 25% of their channels to local television stations. The agreement still awaits FCC approval.

From the 2/19/86 Los Angeles Times: MCA has agreed to purchase WGR-TV, ch. 9 in Secaucus, NJ, for \$387 million from Gencorp and its subsidiary, RKO General. MCA topped a bid for the station from Westinghouse Electric.

According to the 2/14/86 Times, General Electric would have to seek a waiver of FCC rules against multiple ownership of broadcast stations in the same community if it takes over NBC. RCA, which owns NBC, is planning to sell the network to General Electric. But NBC has been able to keep both radio and television stations in New York, Chicago and Washington because they had owned them before the law was adopted. But by General Electric buying NBC, these stations would be under a new owner, and no longer exempt from the rule. General Electric is asking the FCC for an 18 month waiver on the rules to allow it time to sell or swap broadcasting stations.

In other articles: Minority owners in the Spanish International Communications Corp. have been fighting with president Reynold Anselmo in court for ten years, claiming that his dealings with the Spanish International Network, which he owns, have reduced the profits of the shareholders. TV Networks and Hollywood producers are concluding negotiations over licensing fees, which are the fees the networks pay the program producers to air the programs. Lower television ratings and an advertising slump have forced networks to hold their prices down.

John Combs reports that a new Spanish-language network is in the making: Latinet will debut in September with affiliates in New York, Los Angeles, Miami, Chicago, San Francisco and San Diego. John writes, "Talked to a friend of mine on a local BBS who works at WJXT-4 (Miami -wbfl). He says the old tower no longer passes wind-stress requirements and must be dismantled. Actually, they will not totally dismantle the thing, but lower it to 500' or so and replace the antenna." Observing the 1986 TV Factbook, John took note of the CP granted for K37AA in Baker, OR. I can't figure myself why the FCC allowed that one. K78AH in Chester MT can be understood: it's a very old construction permit that has yet to be built. It was also interesting to see several cities with CP's on adjacent channels, and one group called Mountain TV Network, which has anywhere from 3 to 7 different LPTV's in the same town.

That's it for this month. Happy DX'ing, and I hope the following lists are of use.

CHANNEL 2	revised 3/2/86	ST CITY OF LICENSE	AT CALLS	NET	ERP(KW)	HAAT	NOTES
AL Bozler	*- WDIQ	FBS	100			695	lic Andalusia asst.
AK Anchorage	- KTUU-TV	NBC	28.2			180	lic
AK Anchorage	- KTUU-TV	NBC	100m			721	CP
AK Fairbanks	*z KATN	N/A	28.2				vacant
AK Fairbanks						45	lic
AK Fairbanks							vacant
AK Ketchikan						1540	lic
AZ Flagstaff	z KHAZ-TV	NBC	100			1700	
AR Little Rock	*- KETS	FBS	100			3140	lic
CA Los Angeles	z KCBS-TV	CBS	46.8			1571	lic
CA Oakland	+ KTVU	ind	100				San Francisco asst
CO Denver	z KWGN-TV	ind	100			1650	lic
FL Daytona Beach	- WESH-TV	NBC	100			930	lic - sharetime
FL Miami	*z WFMT	FBS	100			930	lic - sharetime
FL Miami	*z WTHS	EB	100			1060	lic
GA Atlanta	z WSB-TV	ABC	100			-574	lic
HI Hilo	z KHBC-TV	ind	2.31m			60	lic
HI Honolulu	+ KHON-TV	NBC	100			2640	lic
ID Boise	- KBCI-TV	CBS	65			1368	lic
IL Chicago	- WBBM-TV	CBS	35.4			950	lic
IN Terre Haute	+ WTHO	NBC	100			1430	lic
IA Cedar Rapids	z KCRN	CBS	100m			970	lic
KS Great Bend	z KSNB	NBC	100				s-KARD/3/Wichita
LA Baton Rouge	z WBRZ	ABC	100			640	lic
ME Bangor	- WLEZ-TV	NBC	51.3			1000	lic
MD Baltimore	+ WMAR-TV	NBC	100			1040	lic
MA Boston	*+ WGBH-TV	FBS	87.1			1000	lic
MI Detroit	+ WJEB-TV	CBS	100			1310	lic
MN St. Paul	*- KTCA-TV	FBS	100			1250	lic
MS State College	*+ WMAB-TV	FBS	100			810	lic
MO St. Joseph	- KQTV	ABC	100			2000	CP
MO St. Joseph	- KQTV	ABC	100m			1035	lic
MO St. Louis	+ KTVI	ABC	100				vacant
MT Anaconda	z KTVQ	CBS	100			670	lic
MT Billings							vacant
MT Butte	*-					630	lic
NE North Platte	- KNOP-TV	NBC	100				vacant
NV Goldfield						490	lic
NV Reno	z KTVN	CBS	34.7			1970	lic
NM Santa Fe	+ KNPZ-TV	ind	88			943	lic
NY Buffalo	z WGRZ-TV	NBC	100m			1578	lic
NY New York	z WCEB-TV	CBS	21.4m/20.3h			1380	lic
NY Utica	- WKTV	NBC	34.7m			992	lic
NC Columbia	*z WUND-TV	FBS	100				s-WUNC/4/Chapel HI
NC Greensboro	- WPMY-TV	CBS	100			840	lic
ND Dickinson	+ KNDX	CBS	100			1337	lic
ND Grand Forks	*z KGFE	FBS	100			1000	lic
OH Dayton	z WDTN	ABC	100			1828	lic
OK Tulsa	+ KJRH	NBC	100m			1050	lic
OR Klamath Falls	- KOTI	R/N	13.5			2201	CP mod
OR Klamath Falls	- KOTI	R/N	35.5m			1560	lic
OR Portland	z KATU	ABC	100			390	lic
PA Pittsburgh	- KDKA-TV	CBS	100			790	lic
SC Charleston	+ WCEB-TV	ABC	100			1950	MP
SC Charleston	+ WCEB-TV	ABC	100				vacant
SD Seneca	*-					760	lic
SD Vermillion	*+ KUSD-TV	FBS	100			1353	lic
TN Nashville	- WKEN-TV	ABC	100			1760	lic
TN Snowville	*+ WSKJ-TV	FBS	100				vacant
TX Amarillo	*-					979	CP (not on set)
TX Denton	*z		100			1052	lic
TX Houston	- KPRC-TV	NBC	100m			3060	lic
TX Midland	+ KMID-TV	ABC	100			3870	CP
UT Salt Lake City	- KUTV	NBC	45.7			1280	lic
UT Salt Lake City	- KUTV	NBC	32.4			2800	lic
WA Spokane	- KREM-TV	CBS	84.7			1200	lic
WI Green Bay	+ WFRV-TV	CBS	100			2000	lic
WY Casper	+ KTWO-TV	R/N	100			2830	lic
PR San Juan	+ WKAR-TV	ind	53.7				

Channel 3	revised 3/2	ST CITY OF LICENSE AT CALLS	NET ERP(kw)	HART NOTES
AK Juneau	*z KTOO-TV PBS	2.45	-1016 lic	
AK Seward	-		vacant	
AZ Douglas	-		vacant	
AZ Phoenix	+ KTVK ABC	100	1670 lic	
CA Eureka	- KIEH-TV C/N	100m	1650 lic	
CA Sacramento	z KCRB-TV NBC	100m	1940 lic	
CA Santa Barbara	- KEYT ABC	50	3010 lic	
CO Glenwood Springs	- KCMS ind	67m	2526 cp mod	
CO Sterling	z KTVS C/A	60.6	730 lic	
			s-KYCU/5/Cheyenne	
CT Hartford	+ WFSS CBS	100	910 lic	
FL Key West	-		vacant	
FL Pensacola	+ WFSB-TV ABC	100	1220 lic	
FL Tampa	*z WEDU PBS	100	935 lic	
GA Columbus	z WRBL CBS	100	1790 lic	
GA Savannah	+ WSAV-TV NBC	100	1476 lic	
HI Lihue	z		vacant	
HI Wailuku	+ KGMV CBS	14.1	5950 lic	
			s-KGMB/9/Honolulu	
ID Idaho Falls	z KIDK CBS	100	1600 lic	
IL Lewiston	- KLEW-TV CBS	13.8	1260 lic	
IL ChamPaign	+ WCIA CBS	100	940 lic	
IL Harrisburg	z WSIL-TV ABC	100m	994 lic	
IA Mason City	+ KINT CBS	97.7	1550 lic	
KS Lakin	*z		vacant	
KS Wichita	- KSNW NBC	100	1071 lic	
KY Louisville	- WAVE-TV NBC	100	914 lic	
KY Louisville	- WAVE-TV NBC	100m	1820 cp	
LA Lafayette	+ KATC ABC	100	1740 lic	
LA ShrevePort	- KTBS-TV ABC	100	1781 lic	
MI Escanaba	+ WJMN-TV ABC	100	1192 lic	
			s-WFRV/5/Green Bay	
MI Kalamazoo	- WMMT CBS	100	1000 lic	
MN Duluth	z KDHL-TV CBS	100	990 lic	
MN Jackson	z WLBT-TV NBC	95.5	2050 lic	
MO Kirksville	- KTVO ABC	100	1082 lic	
MO Kirksville	+ KTVO ABC	84	1973 cp	
MO Springfield	+ KYTV NBC	95.5	2040 lic	
MT Great Falls	+ KRTV C/N	100	586 lic	
MT Miles City	- KYUS-TV NBC	10.2	125 lic	
NE Lexington	*+ KLINE-TV PBS	100	1062 lic	
NE Omaha	z KMTV NBC	100	1370 lic	
NV Ely	-		vacant	
NV Las Vegas	z KVBC NBC	100	1275 lic	
NM Gallup	z		vacant	
NM Portales	*+ KEHN PBS	100	1150 lic	
NV Syracuse	- WSTM-TV NBC	100	1000 alic	
			P-WETH/18/Elmira	
NC Charlotte	z WBTV CBS	100	1090 lic	
NC Charlotte	z WBTV CBS	100m/96.6h	1873 cp	
NC Wilmington	- WRAY ABC	100	1953 lic	
ND Bismarck	*z KBIH PBS	100	1050 lic	
OH Cleveland	z WKYC-TV NBC	100	1000 lic	
OK Eufala	*z KOET PBS	100	1310 lic	
OR Bend	*+ KOJB-TV PBS	15.5m	746 lic	
PA Clearfield	*+ WFSX-TV PBS	100	880 lic	
PA Philadelphia	z KYW-TV NBC	95.5	1600 lic	
SD Florence	- KJLO-TV CBS	100	1684 lic	
			s-RELO/11/Sioux FI	
			Watertown as9t	
SD Rapid City	+ KOTR-TV ABC	100	653 lic	
			P-KDUH/4/Scottsblf	
			P-KHSD/11/Lead SD	
			Sas Florence SD	
SD Watertown	-		1070 lic	
TN Chattanooga	+ WRCP-TV NBC	100	1050 cp lic	
TN Chattanooga	+ WRCP-TV NBC	100m	1013 lic	
TN Memphis	z WREG-TV CBS	100	1637 cp (on air)	
TX Bryan	z KBTX-TV CBS	70	s-KNTX/10/Waco, TX	
TX Corpus Christi	- KIII ABC	100	860 lic	
TX Marfa	z		vacant	
TX San Angelo	- KACB-TV NBC	17.87	608 lic	
			s-KRBC/9/Abilene	
TX Wichita Falls	+ KFDM-TV NBC	100	997 lic	
UT Price	+ KTVK ABC	32.4	3870 lic	
VT Burlington	z WCAH-TV CBS	37.6	2740 lic	
VA Harrisonburg	- WHSV-TV ABC	8.32	2130 lic	
VA Norfolk	+ WTKR-TV CBS	100	908 lic	
			Hampton etc. as9t	
WV Huntington	+ WSAZ-TV NBC	46.8	1253 lic	
WI Madison	z WISC-TV CBS	56.2	1190 lic	
PR Mayaguez	+ WIPM-TV PBS	72.4	2274 lic	
VI Charlotte Amalie*	-		vacant	

Channel 4	revised 3/2	ST CITY OF LICENSE AT CALLS	NET ERP(kw)	HART NOTES
AL Dothan	z WTVY CBS	100	1880 lic	
AK Anchorage	- KTBY ind	4m	-147 lic	
AK Bethel	*z KVUK-TV PBS	4.67	200 lic	
AK Fairbanks	+		see North Pole, AK	
AK Ketchikan	z		vacant	
AK North Pole	+ KJNP-TV ind	19.1	1620 lic	
			Fairbanks as9t.	
AZ Flagstaff	+		vacant	
AZ Tucson	- KVOR-TV NBC	35	3680 lic	
AR Little Rock	z KARK-TV NBC	100m	1650 lic	
CA Los Angeles	z KNBC NBC	44.7	3200 lic	
CA San Francisco	- KRON-TV NBC	100	1680 lic	
CO Denver	- KCHC-TV NBC	100	1477 lic	
DC Washington	- WRC-TV NBC	100	570 lic	
FL Jacksonville	+ WJXT CBS	100	930 lic	
FL Jacksonville	+ WJXT CBS	100m	960 mP	
FL Miami	z WTVJ CBS	100	950 lic	
HI Hilo	*z		vacant	
HI Honolulu	- KITY ABC	100	45 lic	
ID Boise	*+ KRID PBS	27	2474 lic	
IL Rock Island	+ WHBF-TV CBS	100	1342 lic	
IN Bloomington	z WTV ind	55	1200 lic	
IA Sioux City	- KTIV NBC	100	1515 lic	
KS Colby	z KLEY ind	100m	743 cp	
LA New Orleans	+ WNL-TV CBS	100	1009 lic	
MA Boston	- WBZ-TV NBC	66.3	1160 lic	
MI Cheboygan	+ WTMJ-TV NBC	100	620 lic	
			s-WPBN/7/Traverse City, MI	
MI Detroit	z WDIV NBC	97.7	1010 lic	
MN Minneapolis	z WCCO-TV CBS	100	1430 lic	
MS Columbus	- WDBI-TV CBS	100	450 lic	
MI Columbus	- WDBI-TV CBS	100m	608 cp	
MO Kansas City	z WDAF-TV NBC	100	1130 lic	
MO St. Louis	- KMOX-TV CBS	100	1110 lic	
MT Butte	z KXLF-TV C/A	100	1892 lic	
MT Hardin	+ KGSB-TV NBC	100	1060 lic	
NE Scottsbluff	+ KBDH-TV NBC	100	2000 lic	
			s-KOTA/3/Rapid City, SD	
NE Superior	+ KSNB-TV ABC	100	1130 lic	
			s-KHGI/13/Kearney	
NV Reno	z KCRN-TV NBC	17.4	420 lic	
NM Albuquerque	+ KOB-TV NBC	27.2	4200 lic	
NY Buffalo	- WIVE-TV CBS	100	1200 lic	
NY New York	z WNBC-TV NBC	17.4	1690 lic	
NC Chapel Hill	*+ WUNC-TV PBS	100	990 lic	
NC Mantoo	z		vacant	
ND Valley City	- KXJB-TV CBS	97.7	2030 lic	
ND Williston	*z KNSE PBS	100	912 lic	
OH Columbus	- WCMH-TV NBC	100	903 lic	
OK Oklahoma City	- KTVY NBC	97.7	1540 lic	
OR Roseburg	+ KPIC CBS	5.37	1000 lic	
			s-KVAL/13/Eugene	
PA Pittsburgh	+ WTAE-TV ABC	100	965 lic	
SC Charleston	z WCIV NBC	100	939 lic	
SC Charleston	z WCIV NBC	100m	1960 mP	
SC Greenville	- WYFF-TV NBC	100	2000 lic	
SD Pierre	z KPRY-TV ABC	100	1280 lic	
			s-KSFY/3/Sioux Falls, SD	
TN Nashville	+ WSMV NBC	93.63	1410 lic	
TX Amarillo	z KAMR-TV NBC	100	1420 lic	
TX Big Spring	- KNAB NBC	12.75	380 lic	
			s-KTFW/9/Odessa TX	
TX Dallas	+ KDFW-TV CBS	100	1685 lic	
TX El Paso	z KDBC-TV CBS	100m	1563 lic	
TX Harlingen	+ KGBT-TV CBS	100	990 lic	
TX Port Arthur	- KJAC-TV NBC	100	1180 lic	
TX San Antonio	z KMOL-TV NBC	100	1476 lic	
UT Cedar City	z KCCZ	64.6	2569 cp (not set on)	
UT Salt Lake City	- KTVX ABC	32.4	3870 lic	
WA Seattle	z KOMO-TV ABC	100	810 lic	
WA Spokane	- KXLY-TV ABC	48	3060 lic	
WV Oak Hill	z WDAY-TV ABC	100	740 lic	
			Beckley, OK as9t	
WI Milwaukee	- WTMJ-TV NBC	100	1000 lic	
WY Lander	*z KCHC-TV PBS	100	1515 lic	
PR San Juan	- WAPA-TV ind	53.7	2865 lic	

ST CITY OF LICENSE	AT CALLS	NET ERP(kw)	HART NOTES
AL Mobile	+ WKRG-TV CBS	100	1050 lic
AL Mobile	+ WKRG-TV CBS	100m	1906 mp
AK Anchorage	Z ind	100m	-354 CP
AZ Phoenix	- KPHO-TV ind	100	1770 lic
AR Fort Smith	- KFSM-TV CBS	100	1260 lic
CA Los Angeles	Z KTLA ind	50.1	2990 lic
CA San Francisco	+ KPIX CBS	100	1600 lic
CO Grand Junction	- KREX-TV C/N	12.9	-10 lic
CO Pueblo	Z KOPR-TV NBC	100	1306 lic
DC Washington	- WTTG ind	100	770 lic
FL Gainesville	*- WUFT PBS	100	860 lic
FL Palm Beach	Z WFTV NBC	100	990 lic
GA Atlanta	- WAGA-TV CBS	100	1070 lic
HI Honolulu	Z ind	100	71 ALJ Proposed Channel 5 Broadc9
IL Chicago	Z WMAQ-TV NBC	40.1	1307 lic
IA Ames	Z WOI-TV ABC	100	1850 lic
KS Liberal	+		vacant
LA Alexandria	Z KALB-TV NBC	100	1590 lic
ME Bangor	+ WABI-TV CBS	40.7m	1316 lic
MA Boston	- WCVB ABC	100	980 lic
MI Bay City	-		see Saginaw
MI Calumet	- WHTA	100m	582 CP (not on yet)
MI Sasinaw	- WHEM-TV NBC	100	1036 lic
MN St. Paul	- KSTP-TV ABC	100	1430 lic
MO Kansas City	+ KCTV CBS	100	1131 lic
MO St. Louis	- KSDK NBC	100	1090 lic
MT Glendive	+ KXGN-TV C/N	14.8	513 lic
MT Great Falls	+ KFBB-TV A/N	100	590 lic
NE Hastings	- KHAS-TV NBC	100	730 lic
NV Henderson	+ KVVU-TV ind	64.6	1190 lic
NV Reno	*Z KNFB PBS	5.02	465 lic
NM Albuquerque	*+ KNME-TV PBS	26.9	4230 lic
NY Lake Placid	Z		see Plattsburg
NY New York	Z WNYW ind	17.54	1688 lic
NY Plattsburg	Z WPTZ NBC	25.1	1990 lic
NY Syracuse	- WTVH CBS	84	950 lic
NC Raleigh	Z WRAL-TV CBS	95.5	2000 lic
ND Bismarck	Z KFYP-TV A/N	100	1402 lic
OH Cincinnati	- WLWT NBC	100	1000 lic
OH Cleveland	+ NEWS ABC	93.3	1020 lic
OK Oklahoma City	Z KOCO-TV ABC	100	1520 lic
OR Medford	Z KOBI A/N	60.3m	2700 lic
SC Charleston	+ WCSC-TV CBS	100	1000 lic
SC Charleston	+ WCSC-TV CBS	100m	1960 mp
SD Lead	- KIVV-TV NBC	100	1851 lic
SD Mitchell	+ KDLT ABC	100	1510 lic
TN Memphis	+ WMC-TV NBC	100	1013 lic
TN Nashville	Z WTVF CBS	100	1367 lic
TN Nashville	Z WTVF CBS	100m	1394 CP
TX Fort Stockton	+		vacant
TX Fort Worth	+ KXAS-TV NBC	100	1685 lic
TX Lubbock	*- KTXT-TV PBS	63.1	740 PTA
TX Lubbock	*- KTXT-TV PBS	100m	801 CP
TX San Antonio	Z KENS-TV CBS	100	1392 lic
TX Meslaco	- KGRV-TV ABC	100	950 lic
UT Salt Lake City	+ KSL-TV CBS	34	3700 lic
VA Bristol	+ WCVB-TV NBC	85.1	2230 lic
WA Seattle	+ KING-TV NBC	100	820 lic
WV Weston	Z WDTV C/A	100	684 lic
WI Green Bay	+ WFRV-TV ABC	93.3	1120 lic
WY Cheyenne	+ KYCU-TV C/A	100	620 lic
WY Lander	Z KOBY CBS	100	272 lic
PR Mayaguez	- WORA-TV Tel	95.5	2000 lic

ST CITY OF LICENSE	AT CALLS	NET ERP(kw)	HART NOTES
AL Birmingham	- WBRC-TV ABC	100	1120 lic
AZ Kingman	- KAOH-TV	10m	3936 CP (not set on)
AZ Tucson	*+ KUAT-TV PBS	35.5	3630 lic
AR Mountain View	*- KEMY PBS	100	1390 lic
CA Eureka	- KVIQ ABC	100	1740 lic
CA Sacramento	*Z KVIE PBS	55	1120 lic
CA Sacramento	*Z KVIE PBS	100m	1888 CP
CA Sacramento	+ KSBY-TV NBC	100	1780 lic
CA San Luis Obispo	*- KRMA-TV PBS	100	880 lic
CO Denver	+ KREZ-TV C/N	6.2	361 lic
CO Durango			s-KREZ/5/Grand Junction, CO
FL Miami	Z WCIX ind	100	1402 lic
FL Miami	Z WCIX ind	100	1802 CP
FL Orlando	- WCPX-TV CBS	100	1465 lic
GA Augusta	+ WJBF ABC	100	1375 lic
GA Thomasville	Z WCTV CBS	100	1030 lic
HI Kailua-Kona	Z KSHQ	52.5	2910 mp (not set on)
ID Manpa	Z KIVI ABC	60.3	2660 lic
ID Pocatello	- KPVI ABC	100	1530 lic
IN Indianapolis	Z WRTV ABC	100	990 lic
IA Davenport	+ WDC-TV NBC	100	1342 lic
KS Ensign	+ KTVC CBS	100	717 lic
KS Junction City	-		vacant
KY Paducah	Z WPSD-TV NBC	100	1685 lic
LA New Orleans	Z WDSU-TV NBC	100	932 CP
ME Portland	- WCSH-TV NBC	100m	2000 lic
MA New Bedford	+ WLNE CBS	100	940 lic
MI Alpena	*Z WCAR-TV PBS	100	1470 lic
MI Lansing	- WILM-TV CBS	100	1000 lic
MI Marquette	- WLUC-TV CBS	100	978 lic
MI Austin	- KAAL ABC	100	1050 lic
MS Greenwood	+ WABQ-TV ABC	100	1960 lic
MO Sedalia	Z KMOG-TV PBS	100m/97.7h	770 lic
MT Billings	Z		vacant
MT Butte	+ KTVH NBC	100	1936 lic
NE Hayes Center	Z KMNB-TV ABC	100	710 lic
NE Omaha	+ WORT CBS	100m	1370 lic
NV Elko	+		vacant
NM Carlsbad	- KAVE-TV ABC	100	1220 lic
NM Silver City	Z		vacant
NY Schenectady	Z WRGB CBS	93.3	1020 lic
NC Wilmington	Z WECT NBC	100	1940 lic
ND Fargo	Z WDAY-TV ABC	100	1150 lic
ND Minot	*+ KSRE PBS	100	1060 lic
OH Columbus	+ WTVN-TV ABC	100	535 lic
OK Tulsa	+ KOTV CBS	100m	1885 lic
OR Portland	+ KOIN-TV CBS	100	1760 lic
PA Johnstown	Z WJAC-TV NBC	70.8	1120 lic
PA Philadelphia	- WPTI-TV ABC	74.1	1094 lic
SD Reliance	- KPLO-TV CBS	100	1112 lic
SD Reliance			s-KELO/11/Sioux Falls, SD
TN Knoxville	Z WATE-TV ABC	100	1490 lic
TX Beaumont	- KFDM-TV CBS	100	960 lic
TX Corpus Christi	Z KRIS-TV NBC	100	650 lic
TX San Angelo	Z KIDY ind	100	907 lic
TX Temple	+ KCEN-TV NBC	100	1866 lic
TX Texarkana	Z KTAL-TV NBC	100	1580 lic
TX Wichita Falls	- KRUZ-TV CBS	100	1021 lic
UT Vernal	Z KOTT	100m	-36 CP (not set on)
VA Richmond	+ WTVR-TV CBS	100	840 lic
WA Spokane	- KHQ-TV NBC	87.1	2150 lic
WA Bluefield	- WYVA NBC	50	1220 lic
WI Milwaukee	Z WITI-TV CBS	100	1000 lic
WI Superior	+ KBJR-TV NBC	100	1010 lic
WY Casper	*+		vacant
PR San Juan	*+ WIPR-TV PBS	53.7	2865 lic



QSL CORNER



THOMAS J. YINGLING, JR.
221 PINWOOD ROAD, BALTIMORE, MD 21222-2345
PHONE # 301-282-5649

FM QSL's

- FL WGNE 98.5 Panama City, P. O. Box 759, zip 32402. Letter from Chris Rasor, Program Director. My letter was found in his desk when he got the job. My letter was from 7-2-80, just about 5 years & 8 months ago! <Yingling>
- AL WFFX 95.7 Tuscaloosa, P. O. Box 2000, zip 35403. Letter from Morgan Reynold, II, CE. He says they get about 3 reception reports per year. <Edwards>
- WHYH 101.9 Montgomery, P. O. Box 2744, zip 36196. Letter from Mary Brazell, Office Manager <Edwards>
- WENN 107.7 Birmingham, P. O. Box 696, zip 35201. Report was returned with an unreadable signature. <Edwards>
- FL WJST 94.5 Panama City, P. O. Box 880, zip 32402. Letter from Chris Rasor, Program Director. (I think he changed stations, look at WGNE above! <Edwards>
- GA WDEN 105.3 Macon, P. O. Box 46, zip 31202. Letter from Thom E. Smith, General Operating Parter (?), also send real window shield, large info package \$1.76 postage! * <Edwards>
- KY WLAP 94.5 Lexington, P. O. Box 11670, zip 40577-1670. Card for WLAP-AM, signed by Phillip Fraley, CE <Edwards>* <Edwards>
- MS WWMS 97.5 Oxford, P. O. Box 1056, zip 38655. Letter from Dennis White, CE <Edwards>
- NC WGNI 102.7 Wilmington, 211 N.2nd St., zip 28401. Letter from Bobby Murcer, Prog. Dir. <Edwards>
- WVSP 90.9 Warrenton, Box 365, zip 27589. Send back my prepared card, with unreadable signer name. <Holbrook>
- PEI CHLR 93.1 Charlottetown, 141 Kent St., P. O. Box 1060, zip-C1A 7M7. Letter from Muriel Murtagh of CHLR-FM & CFCY-AM who says "Reception letters to Q-93 are few & far between, although we do get many for CFCY our AM." <Holbrook>
- PA WPSU 91.1 State College, University Park, 304 Sparks Bldg., zip 16902. Letter from Janathan M. Pinchock, CE also send program schedule. <Holbrook>
- NJ WBNJ 105.5 Cape May Courthouse, 223 N. Main St., Suite 108, zip 08210. QSL Note & coverage map from Richard Arsenaunt, Eng. (who is a DXer !) <Holbrook>
- MN WQPM 106.3 Princeton, (no address given-just zip) 55371. Letter from Chris London verifying my 3-7-75 report ! 11 years later. Also send bumper-sticker & coverage map. <Elving>
- WI WVCX 98.9 Tomah, Box 187, zip 54660. Letter from Jim Schneider, Program Dir. <Elving>
- MI WIMK 93.1 Iron Mountain, P. O. Box 579, zip 49801. Letter from Fred Peerenboom, CE who mentions affiliated with CNN Radio. <Elving>
- MS WMAW 88.1 Jackson, 1920 Dunbarton, zip 39216. Letter from Dave Miller, Operations Manager. in 23 days also sent program guide, pencil, window sticker, ruler & keychain! <Lavender>
- OH WVXU 91.7 Cincinnati, Xavier University, zip 45207. Letter from Larry Flynn, Dir. of Public Information in 21 days. Also paperback book "The Evolution of a Public Radio Station (about WVXU history) written by Dr. Flynn <Lavender>

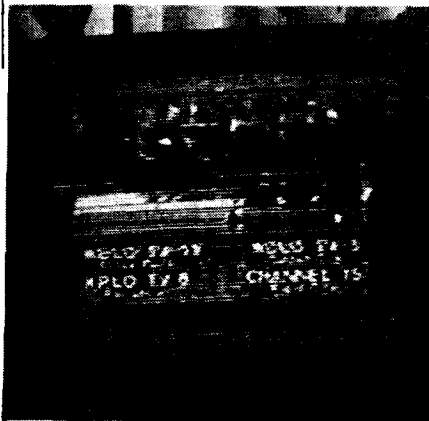
Reporters this time are Don Edwards of Cartersville, GA; Hank Holbrook, Chevy Chase, MD; Bruce Elving, Esko, MN; Glenn Lavender, Birmingham, AL & me the editor. 2 new reporters this month. I'm sorry about any delay that may be from the date you report a qsl item to the month that I use it, just in case anyone may wonder why they have not seen yet what they send in & have not be used yet. Thanks for reporting your qsl's to the column. Next month will be tv qsl's again. 73's.....Tom



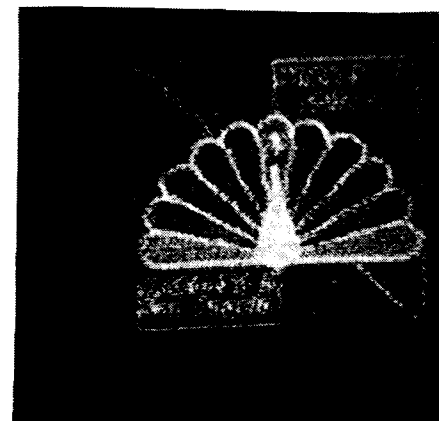
PHOTO-NEWS

David J. Nieman
12284 Nice Road
Akron, NY 14001
U.S.A.

continued from
page 6 April 1986 VUD
Reporter: Matt Sittel - Kingsport, TN

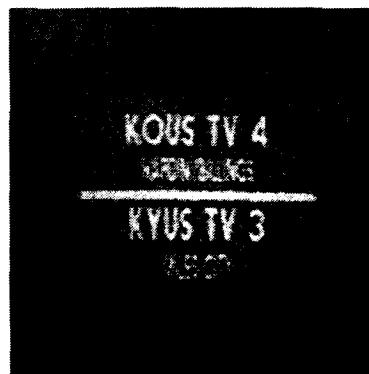


KDLG-3
Garden City, SD
990 mile E-skip
seen May 19, 1984 at 1100 EDT
[rece 1-16-86] [8-ms]

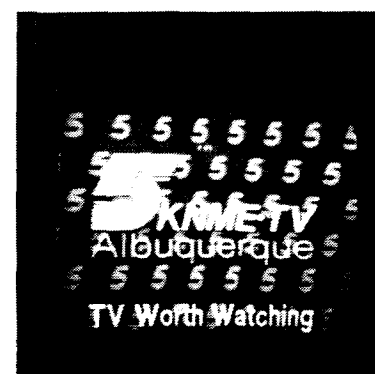


KACB-3
San Angelo, TX
1170 mile E-skip
seen May 20, 1984 at 2100 EDT
[rece 1-16-86] [9-ms]

On with more great DX photos from one of the WFDA's long time members: Bill Eckberg - Dixon, IL

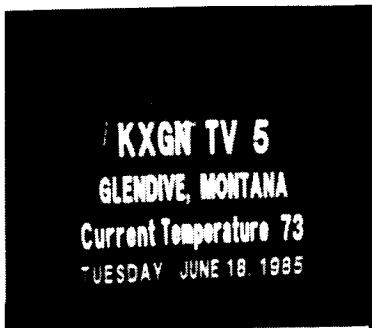


KOUS-4
Hardin, MI
925 mile meteor-scatter
seen Dec 29, 1984 (24 hr now)
[rece 2-7-86] [1-we]



KNME-5
Albuquerque, NM
1026 mile E-skip
seen May 25, 1985
[rece 2-7-86] [2-we]

Bill Eckberg's photo file continues....



KXGN TV 5
GLENDIVE, MONTANA
 Current Temperature 73
 TUESDAY JUNE 18, 1985

KXGN-5
 Glendive, MT
 816 mile E-skip
 seen Jun 18, 1985
 "rarely seen anywhere"
 [rece 2-7-86] [3-we]



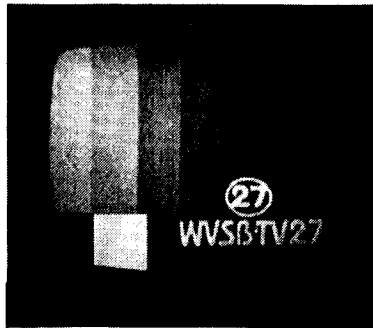
XEW TV

XEPM-2
 Ciudad Juarez, CH
 1162 mile E-skip
 seen Jul 10, 1985
 "shows XEW slide frequently"
 [rece 2-7-86] [6-we]



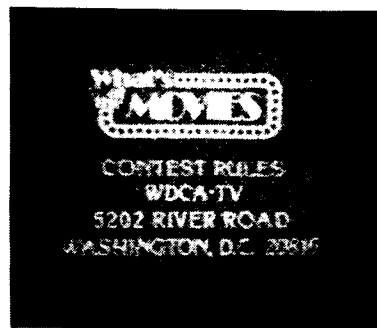
KNMZ-2
 Santa Fe-Albuquerque, NM
 972 mile E-skip
 seen Jul 13, 1985
 "note confusing ID"

[rece 2-7-86] [5-we]



WWSB-27
 West Point, MS
 558 mile tropo
 seen Jul 18, 1985
 "relatively new to the air"

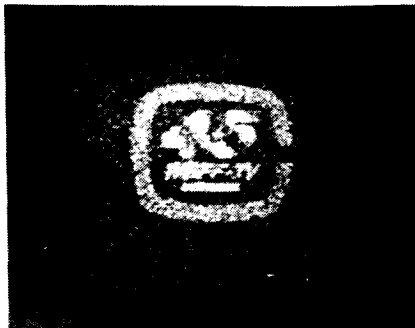
[rece 2-7-86] [6-we]



MOVIES
CONTEST RULES
WDCATV
 5202 RIVER ROAD
 WASHINGTON, D.C. 20016

WDCATV-20
 Washington, DC
 669 mile tropo
 seen Jul 19, 1985

[rece 2-7-86] [7-we]



WBFF-45
 Baltimore, MD
 677 mile tropo
 seen Jul 19, 1985

[rece 2-7-86] [8-we]

IT'S TIME FOR Es

By Gary Walczak

Okay fellow DX enthusiasts! It's time to celebrate!!! THE season for long distance FM/TV reception is now upon us. Most all of us have been busy for the past winter chasing DX reception on the various longwave, shortwave, mediumwave, and ham bands. But by now, things are getting pretty slow on those frequency ranges as warm weather and longer days take over. Fortunately, there is the Spring/Summer alternative to dead DX conditions on lower bands--E-skip!!!

For those of you who are new to DXing skip signals above 30 MHz, and for those who haven't really tried for this really neat type of DX (and for those of you who forgot), this type of long-distance signal pursuit can be very exciting--it has been known to race the pulse of even the most seasoned DXer of the lower bands. For one thing you'll find your chances for this DX to be more limited as to the number of minutes the band will be "open" to DX areas than with lower bands and longer wavelengths--but it has been said that "when it rains it pours" with regard to E-skip DX sessions on FM broadcast and LOW TV (channel 2 to 6) channels.

E-skip often begins early, in the second part of April for southern DX hounds, due of course to their geographic position. The south shall rise again--and it shall also get more E-skip opportunities. Sorry, all you fine Yankee folks! For most of our continent, the short skip season gets going strong by late May. If most WTFDAers aren't getting E-skip lapping at the 30-to-50 MHz channels on their scanners by the second part of May (with some of it spilling into TV channels 2 & 3) on a near-daily basis then I daresay we'll be having a slow E-skip year.

That's something that can make Es DXing a very interesting game, no two years being the same in intensity and number of openings. Some oldtimers are calling for 1986 to be a very good E-skip year (knock on wood!) because we are now at, or real near, the bottom of the Sunspot Cycle, and certain theories of sporadic E skip (or Es, as WTFDA DXers like to write it) hold that low sunspot years, while being lousy for shortwave, can be super for VHF Es. This is still locked in controversy, I'm sure, as there still are several conflicting schools of thought about what actually triggers E-skip openings.

You never really know when E-skip is going to hit, or how intense the opening will get--you find all that out when it happens. Most schemes to "predict" E-skip are pretty much unreliable. Why do you think they call it "sporadic"? But this we know for sure--May, June and July are the months we should be looking for it, and a good year could see some kind of E-skip activity reach TV channel 2 or higher almost every day!

You can first notice it on the upper shortwave bands, with the CB band (27 MHz) sometimes giving you a clue as to which areas you can expect to start hearing if and when it goes above 30 MHz. If it gets intense enough, you can start to hear distant signals on the 30-to-50 MHz band, and that's where the fun begins. There are still enough Public Service operators using the band to hear some interesting accents coming from 500 to 1200 miles away during an opening. Getting a good ID from these stations can be tricky, but is done by avid VHFers.

If the opening is a "winner" it will soon hit TV channel 2, which I hope is clear in your city. The signal strength is often AMAZING when it hits TV, with channel 2 through 6 stations from 1200 miles away often showing up stronger than your basic 40 to 50 mile locals! A few such openings will even go higher, into the 88 to 108 MHz FM broadcast range. No way for me to describe how fantastic a full-quieted FM station from 1000 miles away can sound (in stereo, too!), you've got to hear it for yourself!

If you haven't caught an E-skip DX opening on TV or FM, your chances are improving every day now. Hope to see your results reported to VUD DX columns. HAPPY E-SKIP SEASON!!!

REVIEW:

TEKNIKA 6510



by
RICH WERTMAN

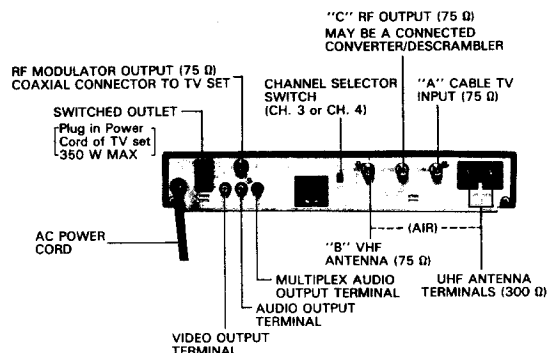
Do any of you fellow members have an older TV with one of those rotary channel selectors that just "plainly put" has seen better days? Or how about that TV you bought that you thought had good sensitivity, but found out picked up every local on every channel! Or, maybe that old tube set just doesn't have the pulling power of the newer ones on UHF, and you don't have the bucks to lay down on a new model. Well, relief is definitely here for all of you, and for those of you who just want one hell of a TV receiver, my advice to you people is to purchase a Teknika 6510 remote tuner. The price is quite reasonable and the quality is exceptional.

I purchased a new 6510 in November of '85 and have been more than pleased with its results. Here are a few of my favorite features and some of my personal feelings on this small but excellent machine.

To start off with this unit incorporates a phase-locked loop quartz synthesizer tuning section. It has a microprocessor controlled tuning system with a 10-key keypad remote. Besides having an output to your TV for channels 3 or 4, it also has separate video and audio phono plug outputs: this is a real handy item for those of you who videotape DX catches with a VCR that has those damned thumbwheels for tuning. On the Teknika you simply connect the video and audio outputs to the video and audio inputs on your VCR. Then you feed your VCR into your TV and no more guessing as to what channel you're on anymore. I find this to be one of the best things about using this tuner.

It also has an audio (volume) control on both the unit and remote. It apparently removes or adds the audio portion of the TV signal received, and it in turn acts like a volume control. There is also a mute control to shut the audio off if you so desire! The Teknika also has unlimited memory for as many channels as you can store!

The Teknika 6510 is also a CATV tuner--this is achieved by using two tuners in one machine: the tuners are separated by an A/B switch located on both the unit and remote. I do have one fault with the CATV tuner though! If your cable company is using the gated sync type of scrambling, your Teknika isn't going to work on it...guess everybody will have to stick to their Jerrolds for their cable watching! However, I didn't buy the 6510 for cable viewing.



REVIEW:

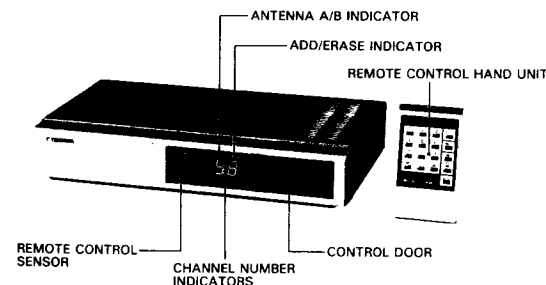
TEKNIKA 6510

One thing that CAN be done with the cable (B) input side of the tuner is to hook up a spare VHF antenna to it so you can switch from one VHF antenna to another, with super isolation. I have a Channel Master Quantum 1110 on a tower hooked up to the (A) input and my stacked yagis for low band E-skip hooked up on the (B) cable input side. The (B) cable tuner works great to VHF channel 13! I find this great to have for switching from the low band antennas to the Quantum 1110 while DXing...I can switch the antennas all by remote control.

The UHF input is made by a 300-ohm connection and comes out on the A-side tuner with VHF. The unit has superior selectivity and sensitivity. For a good comparison I just purchased a new Zenith 13" color TV, model #B1382 with electronic tuning and I'll definitely say that the Teknika does have a little edge on the Zenith. Example: on channel 53, the Zenith will show WPGH from Pittsburgh (125 miles south) without any tropo conditions, but the Teknika will pull it in about 20 to 25% stronger. As far as selectivity goes they are about equal. However, the Teknika will definitely "walk on" any older model tuner without PLL circuitry as far as selectivity goes.

The Teknika does lack the fine tuning control that the Zenith has, but that usually doesn't affect the picture quality because this tuner will grab a signal that's hardly even there and lock right onto it and hold it without all that "picket fencing" you'll usually get from most sets. It also has a multiplex stereo output on the back for a stereo TV adapter, which I have been told will be available soon from Teknika for this unit!

CONTROLS



Well, what else can I tell you? How about its looks. If you've ever seen a Jerrold 400 cable TV converter, it's about the same size. The appearance is much nicer though; it will compliment anyone's DX shack. The front is brushed aluminum with tinted plastic and a door from which the controls are accessible. The unit has a large digital readout in green and the whole thing is housed in a simulated woodgrain metal cabinet.

As far as I'm concerned, anyone who really wants to watch UHF signals, or who has a VCR with thumbwheels for tuning should buy one. I'd definitely rate the Teknika 6510 a 10 on a scale of 0 - 10. I hope I've covered all the questions everyone's been wanting to know for so long on this little gem!

They are available from Fordham Radio, Inc., 260 Motor Parkway, Haunpauge NY 11788, phone toll free (800) 645-9518; in New York State, toll free (800) 832-1446.

(Editor's Note: Fordham's Spring catalog lists this unit at \$149.95. Omnitron Electronics, 770 Amsterdam Ave., New York NY 10025 (800) 223-0826 in April advertised it for \$139.95 in a major electronics magazine. However, this is a quality Japanese import, and DXers have noted price increases on such equipment recently. Some high-end audio dealers handling Teknika video equipment have been asking \$170 or more for this tuner--so beware! The Teknika 6510 and the unit being advertised as the Teknika 6510-T are essentially the same for DXing purpose, with the "T" version a newer model designed to cover some of the non-standard offset cable TV channels.)

1986 W.T.F.D.A. CLUB CONVENTION AUGUST 1 · 2 · 3

HOST: Mike Lapinski
RD#2 2478 Palm Rd.
Jamestown, N.Y. 14701
716-665-6581

GOAL: To log at least 150 stations on television
Last convention-log this location 172 television stations

LOCATION: Hillside at 1710 feet above sea level, 470 feet above valley
Top of hill at 1746 feet above sea level

EQUIPMENT: UHF - 7 foot dish on top of 70 foot crankup tower, max center of dish 83.5 ft.
high VHF - Horizontal stack on top of 70 foot crankup tower, 10 foot under dish
low VHF - Horizontal stack at 40 ft.
FM - Stereo probe 9 at 50 ft, 10 feet above low VHF

TOURS: Channel 17 WNED translator system at Fredonia State College
Tony Pilato will host tour
Board of Co-op Educational Services - Fredonia Video Duplication of
Educational Materials
MWSE/WJTN Jamestown N.Y. tentative
Group W Cable head end - top of hill- tentative

LODGING: Economy Heritage House
2 E. Main Street Falconer Exit Rt 17 on Rt 394
Falconer, N.Y. 14733
716-665-4410
rates Single \$24 Double \$28 2 beds 2 people \$31

National Comfort Inn
chain N. North Main St. Jamestown Exit intersection Rt 17 and Rt 60
Jamestown, New York 14701
716-664-5920 800-228-5750
rates Single \$39.95 Double \$44.95

Premium Holiday Inn Indoor Pool etc.
150 W 4th Street Downtown Jamestown
Jamestown N.Y. 14701
716-664-3400 800-465-4329
rates Single \$58 Double \$62 Reservations as soon as possible

Note: the Comfort Inn is the closest, at least 500 feet closer than the
Heritage house in different directions at the base of the hill.

MEALS: On Friday -Lunch and Dinner, on Satur day Lunch and Dinner
Buffet style catering by Ulla-Lunch and Dinner
Same Dinner Menu as last convention

COST: \$5 Registration fee for rental of chairs, tent, tables plus soda and beer
\$20 for four provided meals
\$25 Total for meals and registration
Please note I must give the caterer at least 2 weeks notice of number
PLEASE NOTE: EACH PERSON IS RESPONSIBLE FOR THEIR OWN MOTEL RESERVATION

WTFDA CLUB SUPPLIES



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A FEW EARLIER EDITIONS \$1.00

NEW QSL REPORT FORMS
FOR REQUESTING QSLs FROM FM
OR TV STATIONS (blk & yel)
50 for \$2.00

UHF TRANSLATOR-LOW POWER TV
LIST
A COMPLETE LISTING OF UHF
TRANSLATORS AND LPTV STATIONS
IN THE CONTINENTAL U.S.A. AS
COMPILED BY TELEVISION NEWS
EDITOR BILL FAHBER. THIS
1985 EDITION IS AVAILABLE AT
\$6.95

WANTED

ONE (1)
V. U. D.

EDITOR
-IN-
CHIEF

WRITE
W. T. F. D. A.
HEADQUARTERS

SEND YOUR ORDER TO:

WORLDWIDE TV-FM DX ASSOCIATION - POST OFFICE BOX 514 - BUFFALO, NEW
YORK 14205-0514 U.S.A. USE CHECK OR MONEY ORDER (U.S. FUNDS ONLY)

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*** BACK ISSUES ***
*** MONTH & NUMBER AVAILABLE ***

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1980	0	0	0	0	0	0	0	0	X	0	4	1
1981	0	5	6	46	41	40	49	17	29	30	35	17
1982	24	23	14	33	29	19	23	30	26	25	43	3
1983	22	7	1	5	1	0	13	0	3	14	2	0
1984	0	3	1	0	2	8	1	2	1	14	11	21
1985	11	8	14	10	17	15	30	31	20	36	5	36
1986												

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HAM-TV

Article by "SPEC-COM" editor,
Mike Stone W8OQCD

As Editor of (THE SPEC-COM Journal), a monthly periodical Journal report of "The United States ATV Society" by and for the Amateur Radio Specialized Communication Modes (devoted first and foremost to HAM-TV), I have enjoyed the mutual "exchange" of our publications with "The Worldwide TV-FM DX Association's" (VHF/UHF DIGEST) for the past two years. I am simply amazed as each issue arrives at the amount of detailed work that goes into each publication! Your MAILBOX segments are always very interesting, the FCC FM NEWS and TELEVISION NEWS columns tells us things I had no idea were going on even in my own area, your FM STATISTICS SCOREBOARD is unbelievable, FEEDBACK has great technical industry tips and your FM & TV DX reports astound us all as to the sincerity and devotedness of all your "well-equipped" reporting stations! I would like to take a moment and say hello to Jeff Kadet of Macomb, Illinois of whom I read his DX'ing logging regularly (he is the closest to us). Jeff's long-distance UHF-TV reception reports is simply remarkable and coordinates with many of our witnessed openings. As you can see, I have found the VHF/UHF DIGEST quite helpful even in my own ATV-DX hunting which I do take quite seriously! Many FCC licensed Radio Amateurs are not at all familiar with the work done by the WTFDA organization and its' members. I would assume that is also fair to state that WTFDA members are most likely "unfamiliar" with the work being accomplished in the field Ham Radio "hobby" communications, especially that of Television. It is time our two groups "met" each other formally so that those interested can further correspond to a more informative and educational relationship. That is what this letter is all about!

Let me introduce WTFDA members to Amateur Radio Television in a few short sentences. Most of the public seems to put the perspective of "Hams" as those weird, highly-educated, Morse code nuts that like to string up wire and big antennas to their expensive Radio systems that usually makes the lights dim in town when operated. Also in case you haven't heard, we are the ones completely responsible for the term "TVI" i.e. television interference (and you thought it was only your problem?). While it is true that the majority of Amateur Radio operators are a bit weird, are above the norm educated, had to pass tests on the C.W. code and do like antennas that come down on their own in the winter, Amateur TV (ATV) operators are a less than 1% group of a 500,000 worldwide population fraternity that have interests not unlike WTFDA members. In fact, if you have ever tuned below Channel 14 UHF (tuning above Channel 13 on VHF will not work as that is in the 200 Mhz. region) you might have stumbled across some funny looking TV signals that do not employ regular programming. Amateur Radio operators (Technician Class and above) are licensed by the F.C.C. (after a series of tests) to operate the Television mode. There are several types of HAM-TV including a very popular Slow-Scan TV mode which is capable of sending still-frame "slide-shows" to all parts of the world! But for this discussion, we shall limit our talk about Amateur FAST-SCAN Television (ATV).



Fast Scan TV is a technical term used among Ham-TV'ers representing regular standard NTSC format 525 line 60 fs. commercial television. Our video carrier center frequencies on 70 cm. (420-450 Mhz.) are mostly on 439.25 Mhz. across the United States with some exceptions in areas that have Repeater outputs on 421.25, 426.25 and 427.25 Mhz. Our sound audio is the same as regular TV some 4.5 Mhz. above the video carrier frequency. If you are listening for ATV activity in your area on an FM scanner device receiver, you might detect a video modulated "buzzing" type of sound with on again/off again transmissions. Most local ATV groups monitor and use a 2 Meter (144-148 Mhz.) FM "talk" frequency as well. Many of you are already monitoring us "hams" on your FM scanners. This VHF frequency will vary across the country. Antennas-Most FSTV'ers in the USA utilize HORIZONTAL ANTENNA POLARIZATION common to regular commercial TV signals. This makes it an ideal intercept condition for your "preamped" high-gain HPLANE antenna setup! There are areas that use VERTICAL POLARIZATION such as in California, parts of Florida and the east. To receive this type of a signal, you already have a 20 db loss disadvantage working against you. If your close enough however, or if the band is strong enough, you'll see the TV signals!

To receive these Amateur-TV signals, you'll need an additional piece of gear unless your TV set has the capability of tuning well below the usual overlap area below Channel 14. Even then, these signals usually need some sort of preamplification. A DOWNCONVERTER is a device used by most all Ham-TV'ers interfaced into their TV set just like a Cable-TV converter. Put an antenna to it and your TV's Channel 3 output becomes a highly tuned, sensitive receiver in the Amateur Radio UHF band between 420 and 450 Mhz. It is the only thing required (other than a TV set and an antenna) to receive Ham-TV. Now before you rush out to buy one, let us give you a word of precaution. Ham-TV activity is not popular in all areas of the U.S. It might be a waste of money to purchase a receiver downconverter just to look at "snow" all day and night. If you are truly interested if anything is happening in your area specifically, you can write to us and include a SASE for response. We also have the names and sales brochures of some manufacturer's of ATV DOWNCONVERTERS. Some of these devices run in "kit" form around \$39.00 or can be purchased in "ready" assembled form for \$89.00. YOU DO NOT NEED A HAM LICENSE TO "RECEIVE" THESE SIGNALS. Please mark WTFDA MEMBER clearly on the outside of your envelope for a faster response. If you happen to have a TRS80C Color Computer system, we have some Radio & TV logging programs that you might also be interested in? Ask for our TRS80C Program Library Catalog. We'd be glad to furnish a sample copy of our SPEC-COM Journal publication which has all this information wrapped in one, for just \$2.50 ppd.



All Photos by W8OZJF

What type of video pictures do we HAMS send over the air? Most of the time, you'll see us sitting in our own little TV studio room, lights, cameras and all, talking from our easychairs about general electronic topics of the day. Many stations are setup to transmit "live" outside camera pictures of weather conditions, etc. Most of us employ VCR's as an INSTANT REPLAY video source. Others will send their own "home movies", SSTV or FAX pictures or maybe even authorized NASA Space Shuttle relays from their backyard "TURO dish". A number of FSTV areas have been doing that for some time now on a regular basis. In conclusion, you see, my WTFDA friends, there is a bit of deception here that comes with my written generosity. It is the hope that your obvious Radio & TV interest and our cooperation and initial guidance will someday lead you to your own "Ham Radio" ticket-license and in doing so, fulfill that secret dream of running your very own Radio and/or TV station! Mike Stone W8OQCD

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