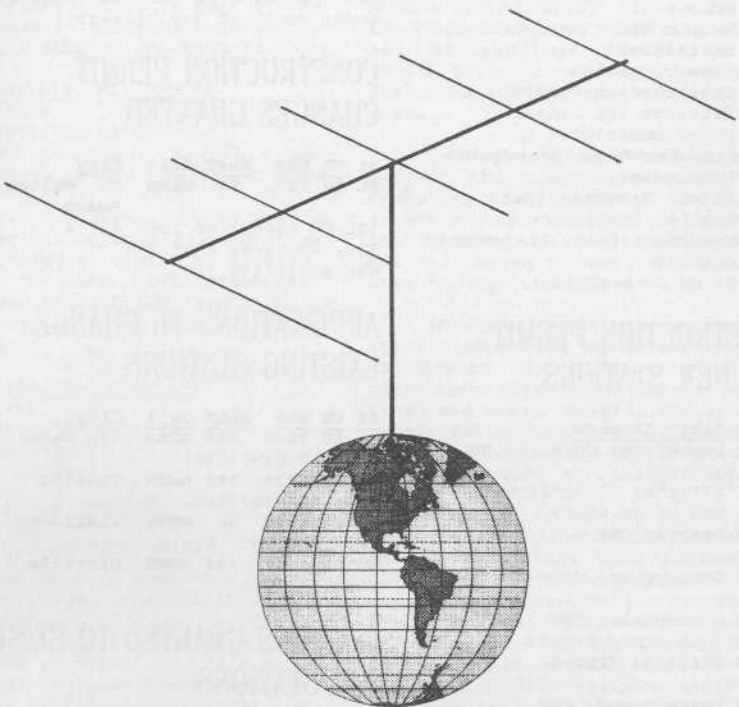


Vhf-Uhf DIGEST

The Official Publication of the Worldwide TV-FM DX Association

DECEMBER 1994



SEASON'S GREETINGS!



WORLDWIDE TV-FM DX ASSOCIATION

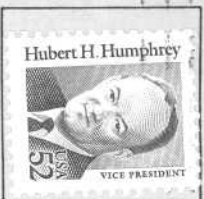
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TV News

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1385 Old Clarksville Pike
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Abbreviations used in this column:
ERP= Effective Radiated Power in kW
HAAT=Height Above Avg. Terrain
nc= no change
TL= Tower Location
CP= Construction Permit
Pr= Province (of Canada)
*= Non-commercial
CRTC=Canadian Radio-Television Commission
DBS= Direct Broadcast Sat.
SS:= Spanish language
LPRT=Low Power Relay Transmitter (Canada)
TBD= To Be Determined

CONSTRUCTION PERMITS FOR NEW STATIONS

Ch St City; license
31 NC Lumberton; Univ. of NC
(3135kW/319m;
TL 34°47'51"N, 79°02'41"W
6.8km WSW of St.Pauls)
16 ON Barrie; CBC
(183kW)
54 ON Bobcaygeon; CFTO-9
(223kW)
8 ON Huntsville; CBC
(43kW; see Other Stuff)
21 ON Orillia; CFTO-9
(208kW)
18 ON Parry Sound; CBC

CKVR
TELEVISION



CFTO-TV
TORONTO

APPLICATIONS TO CHANGE CONSTRUCTION PERMITS

St	Ch	ERP	HAAT	Call	City
FL	46	126	59	WFCT	Panama City Beach

(TL 30°10'59"N, 85°46'42"W
2km E on US-98. I don't have old facilities on this one.)
LA 54 4376 213 none Slidell
(TL 30°17'08.7"N, 89°54'18.2W
3.3km SE of Lacombe.
Was 1000kW/273m on the WHNO/WCCL tower south of New Orleans.)

CONSTRUCTION PERMIT CHANGES GRANTED

St	Ch	ERP	HAAT	Call	City
FL	58	137	59	WAND	Ft. Walton Beach

(TL NW corner of lots 325 & 326, wherever that is!
Was 490kW/49m.)

APPLICATIONS TO CHANGE EXISTING STATIONS

St	Ch	ERP	HAAT	Call	City
CA	60	3540	362	KCSM	San Mateo (was 1550kW/369m)
CA	26	3236	792	KMPH	Visalia (was 3240kW/784m. Ho-hum..)
NC	42	1375	nc	WTVI	Charlotte (was 1380kW. Again, ho-hum..)
NC	17	1537	546	WUNE	Linville (was 912kW)

CHANGES GRANTED TO EXISTING STATIONS

St	Ch	ERP	HAAT	Call	City
NY	26	659	180	WTJA	Jamestown (was 457kW/182m)
PA	53	nc	nc	WPGH	Pittsburgh (FCC says new TL, but it looks like the old one to me!)
WI	21	1127	453	WHA	Madison (TL: 43°03'21"N, 89°32'06"W Mineral Pt. & Junction Rds., Middleton. Was 759kW/381m.)

NEW STATIONS ON THE AIR

Bradenton, FL: WFCT-66Z
I committed a serious typo last month and moved this station to channel 26! Sorry... Also.. Fred McCormack has some corrections on

(New Stations, WFCT-66, contd.)
the facilities:
2240kW/481m
TL 27°24'30"N, 82°15'00"W
3km NE of Verna, 30km E of Sarasota

New Orleans, LA: WHNO-20-
5000kW/276m
TL 29°55'11"N, 90°01'29"W
same tower as WCCL-49 and three LPTVs, in the antenna farm near Gretna.

I saw their GM on the LeSea satellite, announcing the new station on the air, in mid-October. This is part of the Sumrall religious network, with KWHD-53 and WHME-46.

Iron Mountain, MI: WDHS-8-
29.6kW/190m
TL 45°49'14"N, 88°02'39"W
same as the Iron Mountain UHF translators, just north of the town.

Fred McCormack says it went on the air October 19, and it was granted an operating license on the 25th. Bill Draet has seen it with TBN, and it appears on a TBN list dated Oct. 31.

Greenville, TX: KTAQ-47+
240kW/178m
TL 33°09'32"N, 96°08'31"W
Applied for operating license on October 27.

Danville, VA: WDRG-24-
5000kW/30m
TL 36°24'51"N, 79°20'07"W
I believe this is somewhere near Yanceyville, NC, 50km NE of Greensboro.

Fred's sources say this one came on August 17. I'm almost positive the parameters are different, 5000kW at 30m would almost certainly violate OSHA regulations!

Nogales, Sonora, Mexico: 38/50
No technical details, but the chief engineer of an AM station in Nogales notes two new stations on here on channels 38 and 50. The allocation table indicates both stations should have positive offsets.

OTHER STUFF

The Canadian grants are from Saul Chernos via Greg Coniglio. I have no further details, and these are not 100% official. Reportedly CKVR-3 Barrie, the current CBC af-

filiate in that region, has been granted permission to drop the CBC and go independent; thus, the new CBC grants in central Ontario. The Huntsville station is currently operating as a relay of CKVR, I'm not 100% clear on whether this station will switch to relaying the CBC. Bobcaygeon (the site of the channel 54 relay of CFTO) is near Peterborough.

The Lumberton, NC station on 31 will be part of the UNC-ETV educational TV network, relaying WUNC-4 Chapel Hill. In regard to the WUNE-17 changes, I list another set of previous facilities of 1808kW/131m; I suspect these are for a backup antenna but I'm not sure.

In Madison, the WHA-21 changes reflect the upcoming move to the community tower. WISC-3 and WMSN-47 are also moving, and I know WISC has received its construction permit but haven't seen the details come through the FCC yet.

With the upcoming premiere of the Paramount and WB networks, Fox is warning its affiliates not to sign secondary affiliations with these new nets. Several Fox affiliates- KJTL-18 and KCIT-14 are mentioned- have said they'll proceed with secondary-affiliation plans anyway.

Fourteen successful bidders for IVDS licenses have failed to make the downpayments for their bids in time. The FCC has announced that there will be no waivers of the deadlines. Some applicants have threatened to sue to keep "their" licenses. The maximum sanction possible would be for the FCC to re-auction the licenses.

Paxson Communications has purchased Telemundo affiliate WTGI-61 Wilmington/Philadelphia. While no plans for changes have been announced, Paxson's other TV station, WTLK-14 Rome/Atlanta, is reportedly going religious. On a similar vein, Pappas Telecasting, owners of independent KRBK-31 Sacramento and Fox KMPH-26 Visalia/Fresno, has purchased Univision affiliate KREN-27 Reno. A switch to relaying KRBK or KMPH would be quite possible.

Permanent permission has been granted to Fox to transmit programming to their three Mexican affiliates. XETV-6, XHNUL-57, and XHRTA-

(Other Stuff, contd.)

17 have been carrying Fox programs under temporary authorization, challenged by KUSI-51 San Diego. The Mexican stations cover San Diego, Laredo TX, and Brownsville - Harlingen TX.

The Republican sweep of the November 8 election is likely to have considerable effect on broadcast regulation. It's already had a major effect on those who will oversee the FCC and telecommunications policy. Seven of 23 Congressmen on the House Telecommunications Subcommittee and one of 14 Senators on the Senate Communications Committee either retired or lost reelection.

The most likely changes under Republican control are the repeal of parts of the 1992 Cable Act, removal of restrictions preventing local phone companies from providing cable service, and relaxing multiple-ownership restrictions.

Other changes might include increased pressure for restrictions on sex and violence on TV, and for spectrum fees. Interestingly, the new Republican head of the Senate Commerce Committee, Sen. Larry Pressler of South Dakota, voted for the Cable Act, though his House counterpart opposed it.

NETWORK AFFILIATION CHANGES

This appears to be a better title for this section. While Fox was responsible for starting all the changes, many of the recent changes don't involve Fox at all. Again, changes in boldface have already happened. "Para" is the Paramount Network.

KWGN-2	Denver:	ind => Fox?
KUTV-2	Salt Lake:	NBC => CBS
KOTA-3	Rapid City:	ABC =>ABC/Fox
KCNC-4	Denver:	NBC => CBS
KDUH-4	Scottsbluff:	ABC =>ABC/Fox
KSL-5	Salt Lake:	CBS => NBC
KMGH-7	Denver:	CBS => ABC
KHDT-9	Caldwell:	HSC => Para (Boise)
KUSA-9	Denver:	ABC => NBC
WCAU-10	Phila.:	CBS => NBC
KHSD-11	Lead:	ABC =>ABC/Fox
KSGW-12	Sheridan:	ABC =>ABC/Fox
WYED-17	Goldsboro:	ind => NBC (Raleigh)
WRDC-28	Raleigh:	NBC => ?
KEBN-32	Salem:	ind => Para

The Denver, Salt Lake, and Philadelphia changes aren't 100% official, except that KMGH has confirmed an ABC affiliation, and KUSA has confirmed they're changing networks. The changes are related to CBS' plan to swap WCAU to NBC in return for KCNC, KUTV, and other stations. (WTVJ and WRC are most frequently mentioned) The movement of Fox to KWGN is somewhat less definite.

The switch in the Raleigh, NC market is scheduled to take place on Oct. 1, 1995.



CBS is said to be considering changing its mind about buying WVEU-69 Atlanta. The network has not yet filed for FCC approval of the sale, despite a December 11 deadline for current CBS affiliate WAGA-5 going Fox. The rumor in *Broadcasting* has Tribune Broadcasting's WGNX-46 going CBS, and their new minority-controlled subsidiary buying WATL-36 from Fox and putting the WB network on channel 36. CBS would have to find some way out of their contract to buy WVEU.

Early ratings from Cleveland and Kansas City, where the earliest Fox/Big 3 swaps happened, are mixed. WJW-8 and WDAF-4 lost 36% and 27% in total households watching, but gained 50% and 29% in people between ages 18 and 34.

500 Sarasota-area viewers have sent letters to the FCC protesting the loss of WWSB-40's ABC affiliation. They, and WWSB management, want the FCC to threaten WFTS-28's license, claiming that FCC regulations were violated by an ABC agreement to yank WWSB's affiliation in return for WFTS signing up.

The Paramount Network has signed affiliation agreements with LPTVs in Evansville, Indiana and Baton Rouge, La., and is negotiating affiliation agreements with LPTVs elsewhere.

NOT DEAD YET

"Not Dead Yet" will appear on an occasional basis to list construction permits which have been granted extra time to complete construction. It should give you some idea as to which new stations are actually being built, and which have dried up & blown away...

KPPA-44 Rancho Palos Verdes, CA
WAWD-58 Ft. Walton Beach, FL
WFDG-28 New Bedford, MA
WEOU-30 Wilson, NC
KRXI-11 Reno, NV
WFTV-55 Rock Hill, SC

FORUM

Frank Aden, Boise ID:

Frank writes that K22DX Nampa finally appeared sometime during the week of Sept. 26. Programming was from World Harvest TV (the LeSea religious network) and PROSTAR. "No local IDs have been seen and video quality is very poor." KBOI(AM)-KQFC(FM)-KLCI(FM) GE Bill Franke told Frank their transmitter building is "a little trailer with rocks in it to hold it down!" K22DX seems to have been short-lived; see Bill Hale's report.

Jerry Stuart, Lawton OK:

Jerry reports that two of KSBI-52's LPTVs are on the air. K21DC is a local in Lawton; the KSBI ID also shows K21DF Stillwater. He says the programs on K21DC are parallel to KSBI, but the LPTV runs religious ads while KSBI runs ads for their owners' plumbing business.

Locke Supply holds construction permits for five other LPTVs:

K15DA Tulsa, OK
K27DM Claremore, OK
K35CU Ada, OK
K52DM Wichita Falls, TX
K54DJ Edmond, OK

Danny Oglethorpe, Shreveport LA:

A quick question, for which I have no answer... Danny notes the similarity between the situation with KUSI-51 challenging XETV's Fox affiliation, and the situation there in the 70s, when KCSW-39 (now KNSD) successfully challenged XETV's ABC affiliation. Danny comments "I thought NAFTA might have some kind

of affect on this kind of protectionism." Good question! I honestly don't know what effect NAFTA has on cross-border delivery of broadcast programs. I have heard rumors to the effect that someone is considering returning one of the "border blaster" high-powered AM stations to an English-language format, but to date they're just rumors.

John Combs, Orlando FL:

"The strange saga of W40AQ Kissimmee continues." First, this station aired ID color bars 24 hours/7days. Occasionally, they'd bring up a real program- 1970's Mexican TV shows (John says they looked like they were taped off-air in Mexico, complete with commercials!), strange home-shopping services, Hispanic preachers.

Now, they've begun running the Panamerican Hispanic network SUR, which airs programs from several Latin American countries. John is wondering how they get their feed: a friend 100 miles to the south has trouble receiving SUR off the satellite down there, it should be nearly unreceivable in Kissimmee. Further, at irregular intervals he's seeing IDs for WEYS-22 (Key West) and W55BV (Homestead).

John asks, "Does WEYS uplink its signal now? Or is this not the live SUR feed after all, but stuff that was taped from WEYS?" Weird...

John Lentz, Muskego WI:

Still no resolution of the CBS affiliation situation in Milwaukee. I can guarantee you you'll see some resolution (even if it's CBS going dark in market #28!) in your January VUD, as despite delays, WITI is still scheduled to switch to Fox four days before my January deadline!

An interview in the *Milwaukee Sentinel* noted that there was some talk about CBS buying WITI from New World, thus stopping the whole affiliation switch, but they don't seem particularly serious.

Another Milwaukee station, WTV-18, does appear to have been sold; Eddie Edwards of Pittsburgh has requested FCC approval of his purchase from Gaylord Broadcast

(Forum, John Lentz, contd.)

ing. WTVV is currently LMA'd to WCGV-24. When the Sentinel asked WCGV president David Smith whether Edwards could then sell the station to CBS, he said "I presume" - but also said he had a pending contract to continue the LMA. Smith insists that he has no intention of affiliating WCGV, or WTVV (assuming he keeps the LMA), with CBS.

Bill Hale, Boise ID:

Going back to K22DX... Bill writes "Channel 22 here was on for a while, but then disappeared." Programming was religion and a "sports ticker", but then the video "went screwy", and the station went off. Bill also mentions an item in a local paper's religion news column about a Three Angels affiliate being built on channel 25 - I have nothing on this station yet.

Bill called KHDT-9 after noting they carried the Nebraska football game from ABC. (This because ABC affiliate KIVI-6 was carrying the Idaho game at the same time) Their receptionist told him the station would join the Paramount Network in January.

John Johnson, Billings MT:

John sent a note about the premiere dates of the new Paramount and WB networks. Paramount will start on January 16 with programs on Mondays and Tuesdays. WB will start a week earlier, on Wednesday, January 11, with four sitcoms.

Also from John, a few notes about the weird schedule of Fox programs on some of the secondary affiliates. KSVI-6 is the secondary Fox affiliate in Billings. "Married with Children" is theoretically airing at 1:30 Friday morning; Simpsons at 10:00 Saturday night, etc. - except ABC overruns can push all the Fox programming back. "Married..." has started anywhere between 1:33am and 1:50am...

Fred McCormack, St. Paul MN:

Fred is responsible for a lot of information that appears elsewhere in this column. He also passes along a report from Robert Delaney, who saw W26AS Clarksville, Indiana signing "WJYL" with references to "Kentuckiana". WJYL are the former calls of a religious FM station in that (Louisville) area.

He also spent a night in Duluth in mid-November and did not see KNLD-21. I don't know what's up with this one - if anyone logs it, let me know!

Ernie Wesolowski, Omaha NE:

Thanks to Ernie for forwarding a TBN list dated late October. There are a few interesting listings in there, such as their claim of KAIL-53 Fresno as an affiliate, their listing of WDHS-8 (which has only been on for a few weeks), and their listing of two stations in Toledo (confirming what western NY DXers have seen) and three in Denver.

Maybe more interesting, TBN's Low Power TV Supervisor wrote Ernie that they aren't aware of any station on channel 53 relaying their programming in the Omaha area! They say K45CQ Council Bluffs is the only station authorized to be carrying TBN programs in that area.. (indeed, 53 would be a poor choice of channel with a full-power channel 54 under construction!)

LPTV WATCH

It's back...

Call; City, Programming

K21DC Lawton, OK; Family Net
K21DF Stillwater, OK; Family Net
K22DX Nampa, ID; World Harvest TV, but later OFF
W26AS Clarksville, IN; "WJYL"
W40AQ Kissimmee, FL; "SUR" South American network // WEYS-22
K53?? Omaha, NE; TBN, but not authorized by Trinity?
W55BV Homestead, FL; "SUR" South American network // WEYS-22

DX ETC:

The TV database is nearly complete. A few minor updates have to be completed, and printing arrangements need to be made.

More tropics... Houston on FM (and tentatively on UHF), plus various other Louisiana and Mississippi stuff.. Hope the rest of you are doing well in the tropo department. As you read this, the winter Es season will be rapidly approaching; keep your eyes open!

73 Doug



SATELLITE NEWS

George W. Jensen
4604 Anntana Avenue
Baltimore MD 21206-4220

Nothing really earth or sky shattering this time, but there are a few changes to make note of..
ECO Latin American feeds to the US on F2-2
History Channel on C3-12
Fil-Sat (from The Philippines) on G7 Ku 9V
FXM - The Fox Movie Channel on G7-23
American Independent Network on F2-17

BBC feeds and others that were on Intelsat at 53 W have disappeared or gone digital

On TDRS at about 40 W -

15 - SPTV - Washington, DC - in NTSC

17 - Teleport London International in Pal and sometimes MAC

Inclined Intelsat at 32 W -

1 - Gems to Europe and Latin America

3 - Canal Sur to Europe and Latin America

Hisposat at 31 W

25 Ku - TVE Spain in NTSC

21 Ku - Hispanvision in NTSC

Intelsat at 27.5 W

3 - TFI Paris in Pal and sometimes upsidetown video

The Talk Channel on G7 - 22

American Info Channel on S3 - 19 when SportSouth is off
Cupid Adult TV on Anik E2 - 23 VC2

Home and Garden Channel which tested sometime ago will return full time on G1-20

Newfoundland TV is on Anik E2 - 20

on the Ku side of this bird is also a new movie channel on 22 H

No sign of the new Solidaridad 2 yet at 116 W
The Planned Orion Satellites at 37 and 47 W are uncertain

Three Angels is now on S3-18

New Services Planned:

The Ecology Channel will be part time - satellite unknown

The same for the Golf Channel which will launch soon.

That's all for this month - hope to see you in '80 '73's

George

Many of the items listed in this column are taken from the publication:
M Street Journal - 304 Park Ave. So. 7th Floor - New York, NY 10010
PHONE (212) 473-4668, FAX (212) 473-4626

KEY: &: satellite programming AF: new freq. allocation accepted for filing for a new FM license CC: call change/new calls assigned CL: city of license change granted CO: new xmtr co-ordinates CX: a CP has expired , and is cancelled C1,C2, etc: change in class status DA: directional antenna DE: calls deleted , license returned to FCC FC: station format change	GA: granted amendment to table of FM allocations GE: station was granted extension of a CP GX: granted replacement of expired CP MC: multiple-city legal ID NC: no change yet , on a reported pending grant/change. NO: station is not on the air NS: a new station granted a license NW: new station signs on the air PA: proposed amendment to change table of allocations PC>: a power change (increase)	PC<: a power change (decrease) PG>: power change granted (increase) PG<: power change granted (decrease) QC: frequency change for this station QG: frequency change granted RA: station returns to the air RE: station requests extension of a CP RX: station requests re-instatement of an expired CP SG: slogan change or update SI: station is silent XC: station granted a transmitter (xmtr) site change
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ALABAMA:

Andalusia: WXCR 98.1	CC (ex WWSF) "Classic Rock"
Atmore: WYDH 105.9	RA with country // WWSG 550
Atmore: WDWG 104.1	CC (ex WGCV) "The Dawg"
Bay Minette: WAVH 106.5	CC (ex WFMJ), "The New Wave"
Carrollton: WZPO 94.1	CC (ex WCKO)
E.Brewton: WAFN 95.7	NO-RE
Fairhope: WGCX 92.1	CC (ex WZEW)
Mobile: WMXC 99.9	CC (ex WKRD)
Northport: WLXY 100.7	PC> to 11.6 kW, 485 ft, class C3 CO: 33-12-29 / 87-43-10
Uniontown: WVFG 107.5	PC> to 6 kW, 328 ft, CO: 32-22-38 / 87-31-25

ALASKA:

Eureka: K206BJ 89.1	NS: 19w(h)- KCHU
Juneau: *NS 102.7	AF
Kenai: KCZP 91.9CC	(ex KDLL)
McCarthy: *NS 89.7	102 w.(v), -554 feet.

ARIZONA:

Paradise Vly: KXLL 105.9	NO-RE (2nd)
Payson: *** 101.1	GA to add class C3
Prescott: KGCB 90.9	NO-GE, PG> to 57.8 kW, 2532 ft.
Prescott Vly: KPPV 106.7	CC (ex KIHJ)
Rural/Chinle: K289AD105.7	NS-9w(v): KPCL 95.7 NM
Sierra Vista: KKYZ 101.7	NW
Wellton: *** 104.5	GA to add class C2
Williams: KVTF 96.7	NO-RX (2nd)
Window Rock: KWRK96.1	NO-RE (2nd)

ARKANSAS:

Fayetteville: KBHG 89.3	NO-GE
Marion: KFTH 107.1	FC to DRE - new rock (Memphis)
Maumelle: *** 96.9	GA for class A
Monticello: *NS 99.9	AF
N.Little Rock: KDRE 101.1	CC (ex KZQA) "DRE"
Osceola: KOSE 107.3	NW, gold/AC // AM 860 KOSE CC (ex KAFW)
Springdale: KBRS 104.9	FC to SMN "Real Country" & CC (ex KBEV)
Stuttgart: K218BR91.5	NS-250w: WAFR 88.3 Tupelo, MS
Wilson: KAFW 94.3	CC (ex KOSE)

CALIFORNIA:

Aubrey: KGST 105.1	FC to Reg. Mexican // AM (Fresno) CC (ex KSLK)
Big Pine: KRHV 93.3	NO-RX
Chowchilla: KLVN 93.3	CC (ex KXDA)
Crescent C: KCRE 94.3	NC to 8600w, -318 ft, C3, but GE
Ft. Bragg: KSAY 98.5	PG> to 3.5 kW, class B1
Fresno: KKDJ 105.9	adds Mark & Brian show
Healdsburg: KHGB 95.9	NO-RE
Inglewood: KACE 103.9	FC to urban oldies (L.Anges)
Kingsburg: KLV5 106.3	CC (ex KJET)
L.Arrowhead: KABE 103.9	CC (ex KAEB)
Lemoore: KQYZ 104.9	NO-GE
Magalia: KLVK 88.3	CC (ex KWXP)
Needles: KWAZ 97.9	CX for 29.5 kW, 1551 ft, C1 FC to country "Killer"
Newport Bch: KBCD 103.1	adds alternative wknd overnights
Orland: KDIG 106.7	FC to Z-rock heavy metal (&)
Quincy: KSPY 100.3	NO-GE (4th), PG> to 440 w., 2184 ft XC: 40-3-36 / 120-54-46
San Fran: KPIX 95.7	adds CNN Headline News
San Jacinto: KWRP 96.1	PC> to 250 w, 1565 ft, DA
San Rafael: KKH1 100.7	PC< to 910w, 797, XC: 37-59-25 / 122-29-58, CC (ex KTID)
Seaside: KLMY 103.9	NO-RE
Sutter Creek: KRAZ 107.5	PC> to 6 kW, 328ft, CO: 38-22-11 / 120-38-36
Thous. Oaks: KCLU 88.3	NW, information and classical
Visalia: KSLK 96.1	CC (ex KGYU)

COLORADO:

Colorado Sp: KTLF 90.5	PC> to 914w(h), 3657w(v), 2054'C1
Delta: KKNN 95.1	CC (ex KPLY)
Durango: KWXA 99.7	NO-CX-DE-RX
Grand Junct: KZKS1 105.3	NS-1000w: KZKS 105.3 Rifle, Colo. Rifle: KZKS 105.3 chg to 2437, XC granted for new CO: 39-25-57 / 108-07-46
Rural Manos: K242AJ96.3	NS: 9w(v)-KJYE 92.3 Grand Junct

CONNECTICUT:

Guilford: WGRS 91.5	PG> to 2.7 kW, 79 feet
Waterbury: WYVZ 92.5	PC< to 17 kW, 879 ft, CO: 41-33-47 / 72-50-42
Waterbury: WYSR 104.1	FC to new rock

DELAWARE:

Bethany Beach: WOSC95.9	PC> for 16.5 kW, 400 ft., CC (ex WVVV), new calls prob. for "Coast" slogan
Ferndale: WLBW 92.1	SG "Wave", so that WVVV 95.9 would not be able to use that! (95.9 is now "Coast")=

FLORIDA:

Five Points: WCJX 106.5	NW
Florida City: *NS 88.5	AF (S. Fla Edu. Broadcasting)
Fl.Lauderdale: WRMA106.7	CC (ex WTPX)
Inglis: WAVQ 104.3	NO-RE (2nd)
Inverness: WWUA 90.1	NO-GE (2nd)
Key West: WAIL 99.5	FC, adds SMN clas. rock (&)
Maroo: WGUF 92.7	FC to 98.9 class A
Mary Esther: WYBZ 105.5	FC to country
Miramar Bch: WSBZ106.3	NW, soft AC / Jones easy (&) they are planning to run jazz on the weekends
Naples: *NS 88.1	AF
Naples: WSRX 89.5	NC to 20 kW but RE
Naples: WARO 94.5	CC (ex WRAO)
N.Smyrna Bch: WJLU89.7	PC> to 10kw, class C3, DA
Newberry: WNFQ 100.5	CO: 29-48-43 / 82-42-33
Panama C: WFSW 89.1	NO-GE
Pennusco: *NS 88.3	AF
Punta Gorda: WIKX 92.9	GA from class C2 to C1
Tampa: WUSF 89.7	NC to 72kW/941' but RE
Titusville: WPIO 89.3	NC to 6750w(h), 10 kW(v) but GE
Titusville: WGNB 98.1	PC> to 100kW, class C1
Trenton: WDJY 101.7	FC-adds Jones "CD Country" now carries Tom Joyner show.
Williston: WFEZ 101.3	

GEORGIA:

Bolingbroke: WDBS 102.1	NO-RE
Bostwick: WMOQ 92.3	NW, country
Canton: W201AV 88.1	NS-10w: WCCV 91.7 Cartersville
Chatsworth: WQMT 98.9	PG> to 1300 w, 703 ft, CO: 34-44-29 / 84-43-09
Griffin: WQUL 97.7	NC to 97.5 C3, 8.5 kW, 554ft, CL: Fayetteville, GA, CO: 33-29-22 / 84-34-07, but RX
Irwinton: WVKX 103.7	NW
Jasper: W204AU88.7	NS-10w: WCCV 91.7 Cartersville
Pearson: WWPFP 101.9	NO-CX (req. reconsideration)
Rossville: W238AF95.5	NS-10w: WCCV 91.7 Cartersville
Rossville: WLMX 105.5	PG< to 1550w, 646ft, XC
Warrenton: *** 93.1	GA to add class C3
Woodstock: W265AV100.9	NS-10w: WCCV 91.7 Cartersville

HAWAII:

Aiea: KGMZ 107.9	FC (Honolulu), progressive // KAOI 95.1 Maui & KAOE 92.7 Hilo, now covers 3 HI islands)
Poipu: KSRF 95.9	NO-RE
Wailuku: KKUA 90.7	PG> to 7KW, class C

IDAHO:

Bonnets Ferry: *** 92.1	GA to add class A
-------------------------	-------------------

ILLINOIS:

Carlyle: WCXO 96.7	CC (NS)
Galva: *NS 102.5	3 kW, 328 ft.
Mt.Morris: WSEY 95.7	NO-RE (2nd)

INDIANA:

Connersville: WIFE 100.3	CC (ex WCNB)
Evansville: *** 107.5	GA to add class A
Indianapolis: WHHH 96.3	PC> to 640 w., 715 ft.
Indianapolis: WGR1 104.5	PC> to 50 kW
Washington: WAMW107.9	FC, adds Jones soft AC (&)

IOWA:

Atlantic: KXKT 103.7	PA for CL: Glenwood, IA (class C)
Des Moines: KKDM 107.5	NO-RE
Keokuk: KYAT 105.9	NO-GE, PG< to 18 kW, 830 ft XC: 40-25-19 / 91-35-42
Muscataine: *** 93.1	GA for class A

KANSAS:

Belle Plaine: KANR 92.7	CC (ex KSNS)
Girard: KSEK 99.1	FC to adult contemporary (&)
Herington: KDMM 96.3	NO-RE (4th)
Horton: KERE 93.7	CC (ex KADF)
Hutchinson: *** 97.1	GA to add class C3
Silver Lake: *NS 92.5	one step appl. to change to C3

KENTUCKY:

Beaver Dam: *** 100.7	GA to add class A
Jeffersonton: WLSY 101.7	GA to change to 101.3 class A
London: WYGE 92.5	NO-RE (2nd)
Madisonville: WKGT 93.9	PC> to 50 kW, 328 ft.
McKee: WWAG 107.9	FC to SMN Country (&)
Morganfield: WMSK 95.3	PG> to 6 kW, 403 ft.
New Albany: WAJE 94.7	CC (NS)
Nicholasville: WCKU 102.5	FC to classic rock "Arrow"
Paducah: WKYQ 93.3	PC> to 100 kW, 915 ft, CO: 37-2-56 / 88-36-52
Shelbyville: WTHQ 101.3	GA to change to 101.7 class A

LOUISIANA:

Boyce: KBCE 102.3	NC to 21 kW but GE (3rd)
Clayton: *** 99.3	PA to add class A, rather than 107.9
Franklinton: *** 98.9	GA to add class A
Homer: KZXB 106.7	NO-RE (2nd)
Jackson: *** 104.5	GA to add class A
Jena: KJNA 102.7	PA for class A here, from 99.3 A
Jonesboro: K209BR 89.7	NS-250w: WAFR 88.3 Tupelo, MS
Mamou: KAHK 101.1	amendment A to C3 dismissed
Sulphur: KKGB 100.9	FC to rock, CC (ex KTQQ)

MAINE:

Houlton: WHOU100.1	FC to country // WOZ1
Kennebunkport: WQEZ 104.7	NO-RE
Madison: WHAA 97.5	NO-RE (5th)
Winslow: *** 95.3	GA to add class A

MARYLAND:

Baltimore: WSSF 104.3	FC to 70s oldies "The Colt" (wonder if Jim Irsay and the Indy Colts will sue them too, hi-gc)
Cavalier: *** 105.1	GA to add class C
Crisfield: WLSL 96.9	NO-RE (5th)
Grasonville: WRNR103.1	CC (ex WZXL)
Salisbury: WLWV 105.5	see WLBW-92.1-DE (simulcast)

MASSACHUSETTS:

Boston: WJMN 94.5	PG> to 17.5 kW, 771 ft. XC: 42-40-50 / 71-04-59
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MICHIGAN:

Big Rapids: WYBR 102.3	CC (ex WPZX), FC to hot AC "Y102"
Dowagic: WVHQ 92.1	CC (ex WDWQ), FC to a/c (&)
Grand Rapids: WGRD97.9	adds Kevin Matthews (WLUP)
Iron Mtn: WJNR 101.5	NC to 16 kW, 613 ft., but GX (7th)
Mio: WCLX 93.9	NW, soft AC // WCLS 100.7 Oscoda, "Superstation CLS"
Pentwater: *** 103.1	GA for class A
Traverse C: *** 104.5	GA for class A

MINNESOTA:

Benson: KSCR 93.5	FC to SMN adult con. (&)
Nisswa: *** 93.3	GA to add class C
Owatonna: K292EW106.3	NS-195w: KMSU 89.7 Mankato
Preston: KFIL 103.1	PG< to 3.5 kW, 527 ft. XC
Worthington: KITT 93.5	CC (ex KLFN)

MISSISSIPPI:

Artesia: WQNN 99.9	NC to 47250 w, 505 ft but GE
Brooksville: *NS 98.9	5.8 kW, 675 ft.
Centerville: *NS 89.7	AF
Forest: WQST 92.5	NO-RE
Jackson: WTYX 94.7	FC to classic rock
Ocean Sp: WWXX 92.5	SI
Tunica: *** 96.1	GA for class C3
Tupelo: *NS 90.9	3.5 kW, 426ft (Amer. Family Assoc)
Woodville: WLGG 107.7	PA change class A to C3,NO-RX-DE

MISSOURI:

Cameron: KNOZ 100.1	CC (ex KDEE)
Cape Girardeau: *** 93.9	PA to add class A
Clinton: K285EM 104.5	NS-250w: KCVO 91.7 Camdenton
Hermitage: *** 93.1	PA to add class A



Missouri:
Houston: KUNQ 99.3 NC to 33.4 kW but RE, also C2, and XC: 37-5-32 / 92-3-10
PLookout: *NS 91.7 200 w, 151ft (College of the Ozarks)
Warrenton: KFAV 99.9 PG> to 1.5 kW

MONTANA:
Billings: K205CL 89.9 NS: 41w(h)-KEAR 106.9 San Fran.
Billings: KRKX 94.1 now class C1, 590 ft, CO: 45-45-37 / 108-27-09
Butte: KMSM 91.5 QG to 106.9, 740w(h), -204 ft, CO: 46-00-44 / 112-33-26

Great Falls: *NS 90.9 NO-CX (no calls were granted)
Sidney: *** 95.1 GA to add class C1
W.Yellowstone: *** 96.5 GA to add class A

NEBRASKA:
Hastings: KEZH 101.5 PG> to 100 kW, 1004 ft, C2, XC: 40-39-28 / 98-52-4
McCook: KKYT 105.3 CC (ex KZMC)
Omaha: K299AK 107.7 NS-75w: KYNN 101.9 Lincoln

NEVADA:
Henderson: KXTZ 94.1 FC to urban, "94 Jarmz"
Las Vegas: KXPT 97.1 PG< to 9.5 kW, 3765 ft., XC: 35-58-03 / 115-30-06
Pioche: *** 98.9 GA to add class A

NEW HAMPSHIRE:
Wolfeboro: WLKZ 104.9 NC to 730w, 935 ft, XC, but GE

NEW JERSEY:
Cape May CH: WBNJ 105.5 FC to urban AC & // WTTTH 96.1, also they add Tom Joyner show
Long Branch: W209AR 89.7 NS: 19w- WWFM 89.1 Trenton
Newton: WNNJ 103.7 PC< to 2.5 kW, 892 ft, CO: 41-11-12 / 74-46-04
Ocean C: WKOE 106.3 CO: 39-13-45 / 74-40-53
Tuckerton: WTUC 99.7 NO-GE (2nd)

NEW MEXICO:
Albuquerque: KRZN 101.3 NW, jazz, SG "Horizon" CC (ex KWQK)
Albuquerque: KAMX 107.9 FC to new rock, "The Edge"
Albuquerque: KKJY 100.3 FC to 70's classic hits
Central: KNUW 95.3 NO-RE (4th)
Clovis: KLRX 101.5 CC (NS)
Socorro: KRRA 92.9 CC (ex KLSC)

NEW YORK:
Castorland: W240AV 95.9 NS-17w(h), 21w(v): WMHI 94.7 NY
Essex: WCPV 101.3 NW
Monticello: WXTM 99.7 NO-GE (2nd), since noted on the air relating "Jukebox 103.1" (WJUX 88.7 / 103.1 Ft.Lee, NJ)=
New York: WRKS 98.7 PG> to 6 kW
Oneonta: WSRK 103.9 NC to 2,050 watts but GX
Paul Smith: WPSA 89.1 NC to 98.3 / 10w(h), 833ft, but GX
Pattersonville: WPGJ 90.7 NW, religion // WFBG 89.7
Potsdam: WAH 90.3 NW, variety
Pulaski: WSCP 101.7 SI
Salamanca: WQRT 98.3 PG. to 3500 w.
Stillwater: WJKE 101.3 PG< to 2.9 kW, 469 ft.
Whitesboro: WOWZ 97.9 NW, AC(&) // WOWB 105.5 L.Falls

NORTH CAROLINA:
Eden: WXRA 94.5 CC (ex WNEU)
Elizabeth C: WKOC 93.7 CL: Chesapeake, Virginia
Forest City: WBBO 93.3 SG "Q93", modern rock=
High Point: WFXF 100.3 CC (ex WWWB), "Fox"
Nashville: *** 99.7 PA to add class A
Ocean Isle Bch: *** 93.5 GA to add class A
Southern Shores: *** 100.9 GA to add class C2
Winston-Salem: WFDD 88.5 PG< to 60 kW, 935 ft, CO: 35-55-02 / 80-17-37

NORTH DAKOTA:
Grand Forks: *NS 90.7 2.4 kW, 154 ft. (U. of N. Dakota)

OHIO:
Beavercreek: WRVF 103.9 CC (ex WYMJ), "River"
Cleveland: WMM5 100.7 FC to new rock
Defiance: WZOM 105.7 QC from 105.9, PC> to 6 kW
McArthur: WJTD 98.7 NW
Pleasant City: *** 92.1 GA to class A
Upper Arlington: WLLD 98.9 CC (ex WRVF)

OKLAHOMA:
Bixby: KRMP 105.3 NO-RX (4th), CC (ex KBXT)
Langston: KALU 90.7 NC to 89.3, 151w, 200' but GX
Pauls Valley: KGOK 97.7 PG. to 16 kW, 410 ft, XC: 34-42-14 / 97-15-46
Pawhuska: *** 104.9 GA for class A
Poteau: KBSY 107.3 FC to southern gospel
Stillwater: *NS 98.1 6 kW, 328 feet
Sulphur: *NS 90.7 AF
Taft: KHJM 100.3 NC to 3900w, 410 ft but GX, also XC: 35-48-42 / 95-34-12

OREGON:
Brownsville: KLRF 102.3 CC (ex K GAL), FC to alternative
Burns: *** 92.7 GA for class A
Canyon City: *NS 94.5 190w, 1729 ft.
Gold Bch: KGBR 92.7 NC to 42,060w, 1378', GE (3rd)
Lakeview: KCTL 93.5 CC (ex KQIK)
Lincoln C: KNSD 95.1 NO-GE (2nd)
Portland: KXL 95.5 FC to 70s oldies
Redmond: KLRR 107.5 PC< to 27.5 kW, 663', C2
Seaside: *NS 98.9 6 kW, 327 ft.
Sisters: KPXA 104.1 NO-RE (4th)

PACIFIC ISLANDS:
Garapan: *** 101.1 GA to add class C

PENNSYLVANIA:
Altoona: WFGY 98.1 CO: 40-34-01 / 78-26-32 (941')
Bristol: *NS 91.7 10w(h), 100w(v), 69 ft.
Clearfield: W297AB 103.7 NS-12w: WDBA 107.3 DuBois
Grove City: *NS 88.9 AF (Grove City College)
Mercersburg: WSRT 92.1 NC to 2700w, 466 ft, RE (5th)
N.Kensington: WZPT 100.7 FC to 70s oldies "The Point" CC (ex WQKB)
North East: WRKT 100.9 NC to 4200w, 797ft, DA, R
Philadelphia: WIOQ 102.1 FC to mainstream CHR
Pittsburgh: WDSY 107.9 NC to 17.7 kw (but GE)
Pt.Matilda: WIKN 107.9 NW, CC (ex WXXZ), rock-CHR
Shamokin: WISL 95.3 FC to oldies (&)
Sharpsville: WRKU 95.9 RA with classic rock (&) CC (ex WHTX), format moves up dial from 95.1

PUERTO RICO:
Cidra: WBRO 97.7 PG> to 4.4 kW, 899 ft.

SOUTH CAROLINA:
Bamberg: WYBD 92.1 GA: 92.1 A to 95.7 A
Bluffton: WLOW 106.9 CX for 100 kW, 809 ft, XC CC (ex WHHR)
Kingstree: *** 94.1 GA to add class A
Pt.Royal: WNCK 99.7 CC (ex WLOW)
Rock Hill: W231AF 94.1 NS-220w: WRHM 107.1 Lancaster

SOUTH DAKOTA:
Belle Fourche: *** 102.1 GA to add class C3
Carpenter: K261CH 100.1 NS-250w: KCGN 101.5 Ortonvil, MN
Flandreau: *** 107.9 GA to add class C3
Pierre: KCLS 95.3 NC to 48 kw, 502 ft., but GE (2nd)
Rapid City: KFXS 100.3 CC(ex KGM), FC classic rock "Fox"
Speafish: KBHU 89.1 PG> to 100w(v), -348 ft., class A
Winner: *NS 98.5 AF

TENNESSEE:
Tullahoma: *** 98.7 PA to add class A
Crossville: WEGE 102.5 noted in mono
Elizabethton: WAEZ 99.3 PA : from class C3 to C2
Jeff. City: WEZG 99.3 PA: change to 99.1 A and city of license to Cumberland Gap
Knoxville: WUTK 90.3 NC to 800w(v), 70ft, but GE
Knoxville: WJXB 97.5 SG "B-97.5"
Monterey: *NS 104.7 AF
Norris: *** 106.7 PA to add class A
Sparta: WSMT 105.5 PG> to 2,350 watts
Sparta: W219AD 91.7 noted on: WMBW 88.9, relig., mono
Tiptonville: WAA 101.3 NO-RE
Woodbury: WBOZ 104.9 NW, country "Z105"

TEXAS:
Abilene: KFXJ 92.5 NO-RE
Amarillo: KBUD 99.7 FC to 70's oldies, CC (ex KFMA) SG "Proud to be your Bud"
Beeville: KTKO 104.9 CC (ex KIBL), FC to Tejano, NC to 105.7 and 25 kW/328 ft, RE (2nd)
Centerville: KAJG 105.9 CC (NS)
Booker: K218BS 91.5 NS-193w: KJIL 99.1 Copeland, KS
Denson: KDSQ 101.7 FC to classic rock
Denver City: *** 97.5 GA to add class C2
Eagle Pass: KEPX 89.5 NW, religion
Franklin: KLTR 101.9 NW
Friona: KGRW 94.7 NO-GE (5th)
Gainesville: KECS 107.9 NO-RE, PG< to 2,750w, 1791 ft, XC: 33-44-11 / 97-04-04
Ganado: *NS 104.7 AF
Georgetown: KNNC 107.7 PG> to 9100 w.
Harker Hts: KLTX 105.5 CC (ex KLFX)
L.Jackson: KRQT 107.5 CC (ex KZFX), FC to new rock and "Rocket" slogan (Houston)
Nolanville: KLFX 107.3 NW, classic rock, CC (ex KKFF)
Pt.Comfort: *NS 94.1 25 kW, 328 ft.
San Marcos: KEYI 103.5 FC to oldies
Seadrift: *NS 105.1 6 kW, 328 ft.
Victoria: KXBJ 89.3 NW

TIAH:
Richfield: KKWZ 93.7 NC to 33720w, 3029ft, but GE (5th)

VERMONT:
Barre: *NS 89.9 AF (Christian Ministries)

VERGIN ISLANDS:
Christiansted: WVIQ 99.5 FC to soft AC (&)

IRGINIA:
ledford: WYMY 106.9 FC to adult std.-& (Roanoke)
Charlottesville: WLPL 107.5 NO-GE
hester: WDYL 92.1 NC to 93.1, 1350 w, 492 ft, but RE
ovington: WIOQ 100.9 PG< to 560w, 1059', XC to 37-47-36 / 79-55-57
ulpeper: WVPV 89.9 NO-GE (2nd), PG< to 8.5 kW, 584 ft.
trick: *** 93.1 PA to add class A
inton: WAJB 101.5 CC (NS)
oodbridge: WJZW 105.9 CC (ex WCRX), "Jazz"

ASHINGTON:
Jbum: KGRG 89.9 NC to 250 w., 367ft, DA, and CO: 47-15-23 / 122-13-7, but GE (2nd)
ashmere: KZPH 106.7 FC to classic rock (&)
ma: *** 102.1 GA to class A
oldendale: KYYT 102.3 PG< to 748 w., 1788 ft, C3, XC
abton: *** 98.7 PA to add class A
nak: *** 104.3 GA to add class C2
isco: KGDN 101.3 PG> to 10.5 kW

EST VIRGINIA:
cataico: WTUN 98.7 NW
Jenswood: WIFY 93.1 NO-GE

WISCONSIN:
Cleveland: WKTT 103.1 QG to 98.1, 5100w.
DePere: WJLW 95.9 NC to 25 kW, 272 ft, but GE (2nd)
La Crosse: WSPL 95.7 FC to adult rock WW1 (&)
Michicot: WGBM 107.5 CO: 44-20-30 / 87-47-10
Neillsville: WCCN 107.5 CO: 44-35-31 / 90-37-13 (587 ft)
New Holstein: KFKQ 92.9 NO-GX (2nd)
Spooner: *** 106.3 GA to add class A
Tomah: WUSK 94.5 CC (ex WZFR)
Wausau: WRMW 91.9 two new stations here to share time: State of Wisconsin (56w-823 ft.) & White Pine Community Broadcasting (with 380 watts, 426 ft) (call of second station is unknown at this time)
Wausaw: WCLQ 89.5 NC to 8.5 kW, RX

WYOMING:
Buffalo: KLGT 92.7 NC to 92.9, 12kW (h), 3 kW (v) 1115ft, CO: 44-36-08 / 106-55-52, but RE (6th)
Casper: *** 97.3 GA to add class A

CANADA:
ONTARIO:
Ajax: CJKX 95.9 NW, country, "KX-96"
Barrie: CIOB 101.1 NW, noted testing with adult contemporary and a "B101" slogan
North Bay: CHUR 840 QG to 100.5, 100kW=
Tobermory Park: *** 90.7 NW, Environment Canada weather station noted on the air (Bruce Peninsula), supposed to be 50 watts, calls are unknown. Expect more of these.

QUÉBEC
Beauceville: *NS 102.5 to be French, religion, oper by Fondation Humanité 2000, power unknown
Montreal: *NS 91.3 to be French, religious, via Radio Ville-Marie (power unknown)
Quebec City: *NS 90.9 to be French, religion, oper by Fondation Humanité 2000, power unknown

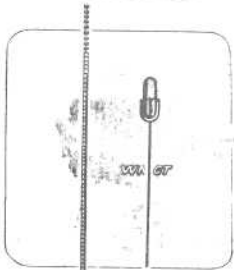
Speaking of these three religions stations, this represents a change in policy by the CRTC, according to an official news release dated October 14th. "The proposals filed by both applicants comply with the elements of our new policy on religious broadcasting, particularly with regard to ethics and balance in the presentation of alternative viewpoints", said CRTC Chairman Keith Spicer. Programming will be mainly religious, with a thematic or pedagogical approach. Advertising on Radio Ville-Marie will be limited to no more than 6 minutes per hour, with 60 hours a week out of 126 hours of weekly broadcast expected to be religious. The license will expire on 8/31/99. Fondation Humanité 2000 will broadcast 57 1/2 hour of exclusively religious programming a week, with no advertising.

Idaho State University may have its own station for the first time in 22 years, according to the Idaho Statesmen. A student group has been awarded 91.1 Mhz by the FCC. University administration will support the idea of a new station if there is enough student interest, according to Radio Free ISU chairman Lane Startin. A signature drive has been started, aiming for 3,000 people. Startin claimed the station would enhance the "educational atmosphere" at the Pocatello School. Frank Aden, who sent in that article, also mentions that the IRCA convention will be right there in Boise, July 14-16, 1995. Thanks to all who contributed to this column. In addition to Frank: Saul Chemos, Matt Sittel, Joe Fela, Tim McVey, Doug Smith, and Steve Ryan. Thanks also to M Street Journal for all their support during this year, and we look forward to another year of cooperation! I hope everyone has a great Holiday season!



EDITED FOR THE WTFDA AND "VHF/UHF DIGEST"
BY TOM BRYANT, 849 TODD PREIS DRIVE, NASH-
VILLE, TN, 37221 - Phone/Fax (615) 646-2000

THANKS TO WTFDAer WILLIS MONK OF COLLEGE-
DALE, TN FOR THIS COLLECTION OF LETTERHEADS
AND LOGOS DATING BACK TO THE MID 50s. THE
WNOR-TV LOGO IS OF PARTICULAR INTEREST...AS
THE CITY OF LICENSE IS WORCESTER, MA. THE
KHAD CALL IN LAREDO STANDS FOR THE OWNERS
'HANK AND DAVE'. MUSKOGEE/TULSA'S CHANNEL
8 IS REPRESENTED BY TWO SETS OF CALLS; AND
KFJZ-TV WAS LICENSED TO FORT WORTH, TEXAS.



WMC AM
WMC FM
WMCT TV



KCCC-TV P. O. BOX 1596
SACRAMENTO, CALIFORNIA

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Atlanta, Georgia

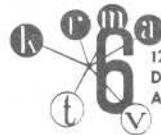


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A Sarkes Tarzian Station

SOUTHERN FM DX

Danny Buntin
1312 N. Skyline
Stillwater, OK 74075

DECEMBER 1994

SOUTHERN FM DX is for reporters from: AL, AR, AZ, CA, CO, DE, DC, FL, GA, HI, KS, KY, LA, MD, MO, MS, NC, NM, NV, OK, SC, TN, TX, UT & WV. Merry DXful Christmas!!

DEADLINE: 14th

MORE FROM PAT DYER'S SUMMER ES

SOME HALLOWEEN TIME TROP IN UP TO 677 mi.

Douglas E. Smith, 1385 Old Clarksville Pike, Pleasant View, TN 37146-8098
 Equipt.: Technics ST-G50, Archer VU-160 at 15'
 10/5 gw
 0000 WBOZ 104.9 TN Woodbury, "2105", k\$, 64 new semi-local, ouch...
 10/18 tr
 0850 WZZK 104.7 AL Birmingham, "WZZK 104.7 FM"
 0900 WQEM 103.7 AL Gadsden, calls 201
 0908 WKRG 99.9 AL Mobile, "Coast 100 FM" 396
 0922 WTXI 98.1 AL Fayette, "W. Alabama's auto auction" 215
 0931 WMJJ 96.5 AL Birmingham, legal ID 203
 0950 WKMX 106.7 AL Enterprise, "106.7 KMX" 349
 1026 WHYY 101.9 AL Montgomery, "The New Y102"
 1034 WZRR 99.5 AL Birmingham, promo for AL football 206
 1039 WRJB 98.3 TN Camden, "J Rock & Roll"
 1043 WKXJ 97.3 TN South Pittsburg, "97-99 Kicks FM" 127
 1045 unID 96.1 AL? "Hot Country 96 WMYC", strongly suspect Mobile.
 1101 WMBV 91.9 AL Dixons Mills, calls 296

Missed a good opining in the early morning hours of Oct.17; had just driven across the state and was too sleepy to DX. All I caught was WJSP-23. Tom had Tallahassee on the TV. At 0900 on the 18th, I noticed two stations on 101.5, both carrying the same network newscast but with different delays, resulting in an echo sound. This is pretty common on AM, but it's the first time I've heard it on FM! I think the culprits were WJOR and WTWL.

Eric Bueneman (NOUIH), 631 Coachway Lane, Hazelwood, MO 63042-1327 CDT

Equipt.: Realistic STA-90 AM/FM/FM stereo receiver with Radio Shack VU-110 antenna and Archerrotor at 33 feet above ground level.

8/29 tr
 2105 KJMO 100.1 MO Jefferson City, o
 "Oldies 100.1", between locals KFAV 99.9 and KNJZ 100.3 100
 2110 WSIX 97.9 TN Nashville, k, calls 270
 2111 WWTN 99.7 TN Manchester-Nashville Sounds minor league baseball 320
 2115 WLAC 105.9 TN Nashville, r(AC/CHR), 270
 "Star 106", splash from KPNT
 2315 WOOZ 99.9 IL Harrisburg, "Hot New Country Z-100", in KFAV null 130
 2322 KBOB 99.7 IA Muscatine, k "Bob 99.7" ex-KPMH 180
 2340 WMUF 94.1 TN Paris, r(AC/CHR)"94.1 WMUF", mixing with WMIX 200
 10/14 tr
 0015 KCLR 99.3 MO Boonville, "Clear 99 FM", k, splash from WKDQ 99.5 and KFUO 99.1 130
 0020 KLGS 95.1 MO Versailles "KS-95", Lake of the Ozarks mentions, k, over WDZQ 130
 0030 KMZU 100.7 MO Carrollton, k, over KGMO after KZMM sign off 210
 0035 KCMO 94.9 MO Kansas City, "Oldies 95", o, splash from KSHE 94.7 225
 0036 WQCY 99.5 IL Quincy, "99-Q" r(CHR) 110
 0037 KGRC 92.9 MO Hannibal, "Variety 93, r (Hot AC), local-like signal 90
 0049 Cape Girardeau, MO 100.7, 102.9 115

10/30 tr, ms
 2321 KODA 99.1 TX Houston, "Sunny 99.1 Houston wx 677
 2343 WTWL 101.5 TN McKinnon, "Thunder 101.5 FM", new slogan and format (country)
 2346 KSAB 99.9 TX Robstown, meteor bursts of Mexican music.
 10/31 tr
 0013 KOLL 94.9 AR Maumelle, "Cool 95" 319
 0024 KBCN 104.3 AR Marshall, Branson ads 313
 0043 WOGY 94.1 TX Germantown, "Proggy 94" rare due to WMUF and WMIX 180
 0321 KQOK 106.5 TX Galveston, "Tejano 106" 663
 0342 unID 96.9 "Z-97" w/pop or hot adcon
 0355 KPNT 105.7 MO Ste. Genevieve, "105.7 The Point" 230
 0932 WKJQ 97.3 TN Parsons, Lexington 76 ad
 0937 WKFL 96.1 AL Florence, news of death of founder of WOWL-15 123

10/16 tr
 2325 Columbia, MO 91.3, 98.3, 101.5 115
 10/18 tr
 2244 KOPN 89.5 MO Columbia, jr, local 105
 KCFM off
 2247 KTXR 101.3 MO Springfield, lm, 190
 2249 WNNNS 98.7 IL Springfield, rm "Light Rock 99" 80
 2254 WQLZ 92.7 IL Taylorville, rp(AOR), mixing with KLOZ 80
 2254 KLOZ 92.7 MO Eldon, r(Hot AC), "Z-93" mixing w/WQLZ 130
 2305 KBDZ 93.1 MO Perryville, "B93-1", k 70
 2306 KBIA 91.3 MO Columbia, \$ contemp. 105
 2309 WSSU 91.9 IL Springfield, j 80
 2314 KTXV 106.9 MO Jefferson City, rp(AOR) "Y-107" 100
 2330 KBXR 106.1 MO Ashland, rp(altern.) 100
 2348 KGNV 89.9 MO Washington, Christian talk, o/WLCA 50

Decent tr opening on Aug. 29, basically the entire mid-Mississippi Valley and a fair chunk of the Ohio Valley covered, most of the logs were on TV, however. I was also able to work a ham in Evansville, IN via the 146.69 MHz (negative offset) repeater in Owensboro, KY using my handheld transceiver and a five-eighths wave ground plane antenna.

SOUTHERN FM DX

Bueneman, cont.

DECEMBER 1994

In that same opening, I also managed to get into three repeaters on 147.03 MHz (positive offset) at once, which told me how good conditions really were! Locally, I am hosting a new specialty show on KCFV 89.5, called "The Alternative Time Machine", which features Modern Rock classics from the 1970s, '80s and early '90s. It's on Fridays from 2000 to 2400 CLT (that's Central Local Time, for those who don't know what it is, hi!).

KLGS 95.1 is on the air and DX ready, with a country format (very popular nowadays) for the Lake of the Ozarks area. The October 14 opening (nice gift for my birthday, hi!) got into the Kansas City area, with very strong signals from the Lake of the Ozarks, Hannibal/Quincy and even my "barometer station" for southwest Indiana/western Kentucky (WKDQ 99.5). Springfield, IL stations were in like locals and Cape Girardeau stations were also in. Also noted KCLR 99.3 (last noted in 1984 as KDBX) and KCMO 94.9 (last noted in 1985 as KCPW). Propagation also noted on local VHF channels 4 and 5 on television with TV stations from Columbia/Jefferson noted at semi-local strength. October 18 brought an opening extending from one Springfield (MO) to the other (IL). It wasn't unusual to hear tow stations battling it out on a few frequencies (as noted with 89.9, 92.7 and 106.1). It was the first time I had received KGNV 89.9 with usual local WLCA on the air (in fact, nearly obliterating them!), KGNV comes in best after WLCA's sign off. (Well, I should hope so. DB) This summer, the stations that has most frequently visited this QTH has been WSIU 91.9 Carbondale, IL. It has a near-local signal nightly after WSSU Springfield, IL signs off. While I concentrate on AM DX, (Yuck I hate Antique Modulation DXing; it's too noisy. DB) I still remain on the lookout for any off-season openings. 73 and good DX from NOUIH.

Pat Dyer WA5IYX, 5315 Silvertip Drive, San Antonio, TX 78228-2744

Equipt.: Realistic TM-1001 tuner (two I.F. mod. w/150 kHz filters) into Allied 426 52-ohm step-attenuator box used to reduce local local intermod/overload when needed, 6-e Archer antenna at 20' with rotor. CST used, new underlined, all Es unless noted.

07-01-94:
 1730 WKRY 93.5 FL 1087
 1733 WAVK 106.3 FL 1126
 1747 WEOG 92.5 FL 1099
 1750 WESC- 92.5 SC 1009

07-03-94:
 0748 KWKH- 94.5 LA 353
 0757 WSKX 92.3 GA 1025
 0803 WKKZ 92.7 GA 851
 0811 WKKF 92.3 GA 913
 0813 WYAV 104.1 SC 1182
 0817 WDOG- 93.5 SC 1048
 0820 KYKC 105.1 TX 268
 0821 WHLZ 92.5 SC 1128
 0827 W2NY 105.7 GA 1022
 0830 WYAK-103.1 SC 1182
 0833 WAGW 100.9 GA 1006
 0834 WNEB 105.9 SC 1200
 0838 WGTB 107.9 SC 1182
 0847 WWXM 97.7 SC 1182
 0852 W2XS 103.9 NC 1275
 0906 WKTG 98.9 NC 1257
 0933 WSPA- 98.9 SC 1027
 0938 WKRR 82.3 NC 1172
 1013 KGFV 92.7 SD 1033
 1015 KRRB- 92.7 NE 908
 1946 KLZY 92.5 WY 1187
 1952 KMGN 93.9 AZ 843
 1959 KSSD 92.5 UT 1018
 2011 KJOL 90.3 CO 877
 2013 KJYE 92.3 CO 873

07-05-94:
 0947 XHD- 106.5 DF 690
 0956 XHCT 95.7 MR 725
 1001 XEDF-104.1 DF 690
 1003 XHNX 98.9 MC 700
 1013 XHMEF 94.5 DF 690
 1033 XHZM 92.5 PU 715
 1057 X--- 97.7 GR 870
 1102 XHZH 90.5 GR 840
 1115 XHNY 93.5 GN 830
 1120 XHBIO 92.3 GR 670
 1606 KSSD 92.5 UT 1018
 1608 KDAG 96.9 NM 745
 1611 KREC 98.1 UT 1000
 1613 KXTC 99.9 NM 723
 1617 KPCL 95.7 NM 747
 1620 KOOL- 94.5 AZ 836
 1632 KSOF-104.3 UT 1087
 1636 KBZN 97.9 UT 1133
 (144-MHz to NV)
 1650 KRBO 105.1 NV 1050
 1652 KRCY 105.9 AZ 896
 1652 KJUL 104.3 NV 1077
 1654 KVMM- 93.5 AZ 746
 1655 KRLV 106.5 NV 1052
 1657 KEYV 93.1 NV 1077
 1658 KJYE 92.3 CO 873
 1659 KKOR 94.5 NM 697
 1700 KRIM 104.3 AZ 829
 1720 KRFM 96.5 AZ 741

07-04-94:
 0910 WCEN- 94.5 MI 1236
 0913 WLAV- 96.9 MI 1182
 0914 WAIR 92.5 MI 1323
 0918 KDAL- 95.7 MN 1244
 0921 WLHT 95.7 MI 1176
 0922 WKJZ 94.9 MI 1328
 0925 WZTF 95.7 WI 1110
 0925 WRTI 94.5 WI 1110

SOUTHERN FM DX

7/5			
1720	KHWY 98.9	CA	1031
1724	KKFB 92.3	AZ	836
1725	KDKB 93.3	AZ	836
1729	KUMT 105.7	UT	1087
1731	KOLT 105.9	NM	634
1733	KMLE 107.9	AZ	836
1758	KMTS 92.7	CO	853
1759	KQSW 98.5	WY	1014
1800	KMGN 93.9	AZ	843
1801	KPKY 94.9	ID	1204
1808	XHBA 104.1	BCN	1019
1811	KRQQ 93.7	AZ	766
1851	KROE 94.9	WY	1151
1854	KWYO 96.5	WY	1150
1901	WMHQ 92.7	MI	1188
1908	WRGN 93.5	OH	1175
1907	CKLW 93.9	ON	1233
1908	WJLB 97.9	MI	1239
1912	WVKS 92.5	OH	1181
1926	WTTS 92.3	IN	984
1927	WGRD 97.9	MI	1166
1934	WLHT 95.7	MI	1178
1935	WEWN 104.1	IL	936
1939	WJTW 93.5	IL	1019
1945	WLAV 96.9	MI	1182
1954	WONU 89.7	IL	1006
1958	WYCA 92.3	IN	1042
2007	WZTR 95.7	WI	1110
2013	WDEK 92.5	IL	1017
2014	WXTI 94.5	WI	1110
2016	WTRM 104.9	WI	1107
2018	WVYX 103.1	IL	1061
2022	WNIZ 96.9	IL	1078
2028	WBGE 92.3	IL	928
2031	WBWI 92.5	WI	1118
2034	WQZZ 93.5	WI	1176
2042	KVOL 105.9	LA	396

07-06-94:

0822	KWRH 94.5	LA	353
0823	WCCL 92.3	OH	1139
0843	WPKR 92.5	KY	868
0849	WKDD 96.5	OH	1252
0849	WQXY 97.7	OH	1044
0850	WQMY 94.9	OH	1243

07-08-94:

1614	WKGL 96.9	FL	1019
1628	WFAP 92.5	FL	802
1625	WQFW 95.7	GA	917
1635	WGIK 98.1	FL	1019
1636	WJET 92.7	FL	1015
1641	WGLF 104.1	FL	860
1646	WTBB 97.7	FL	779
1647	WUMX 103.1	FL	861
1647	WHJX 101.5	GA	1009
1649	WSTF 97.9	FL	1035
1651	WKEX 106.3	GA	1013
1652	WROC 107.3	FL	1019
1702	WWSG 108.1	GA	
1704	WKNE 105.1	GA	977
1711	WHLZ 92.5	SC	1128
1715	WKKZ 92.7	GA	951
1719	WYBB 98.1	SC	1116
1725	ITOI 108.9	AL	765
1726	WPEZ 107.9	GA	915
1727	WSE 98.5	GA	888
1729	WSSX 95.1	SC	1122
1729	WMYA 96.7	AL	814
1738	WCEH 103.9	GA	917

Dyer, cont.

1741	WYAV 104.1	SC	1182
1743	WXXM 97.7	SC	1182
1746	WPEH 92.1	GA	985
1747	WBAW 99.1	SC	1047
1750	WYAK 103.1	SC	1182
1752	WZNY 105.7	GA	1022
1756	WARQ 93.5	SC	1079
1840	WVCO 94.9	SC	1195
1849	WKTC 96.9	NC	1257
1853	WBKR 92.5	KY	869
1903	WHRZ 97.7	KY	828
1904	WTGR 104.1	NC	1155
1909	WNCI 97.9	OH	1140
1918	WKID 95.9	IN	1007
1925	WZKL 92.5	CH	1254
1927	WRBI 103.9	IN	1013
1951	WVKS 92.5	OH	1181
1951	WKKJ 93.3	OH	1116

07-09-94:

1747	WDOG 93.5	SC	1046
1748	WRTI 94.5	WI	1110
1753	WESC 92.5	SC	1009
1756	WKRK 92.3	NC	1172
1758	WHDU 94.5	SC	1018
1759	WRIX 103.1	SC	999
1805	WCEN 94.5	MI	1236
1816	WSKX 92.3	GA	1025
1824	WKKZ 92.7	GA	951
1828	WHLZ 92.5	SC	1128
1830	KKUS 104.1	TX	278
1831	WXXM 97.7	SC	1182
1832	WYAK 103.1	SC	1182
1833	WYAV 104.1	SC	1182
1834	WBSX 92.7	SC	1026
1835	WTGR 104.1	NC	1155
1836	WNMB 105.9	SC	1200
1840	144-MHz to W4		
1854	WZXS 103.9	NC	1275
1855	WXTC 98.9	SC	1139
1900	WFXH 106.1	SC	1071
1901	WSSX 95.1	SC	1122
1907	WBYZ 94.5	GA	971
1908	WRBT 94.9	IL	872
1930	WGLZ 92.7	IL	873
1931	WVOH 93.5	GA	964
1931	KLYP 92.7	AR	509
1954	WFCH 94.9	GA	888

07-10-94:

1052	KCMJ 92.7	CA	1078
1054	KZEZ 93.5	UT	1012
1100	KSSD 92.5	UT	1018
1404	XHRM 92.5	BCN	1111

07-11-94:

0835	WCIC 91.5	IL	918
0847	WDEK 92.5	IL	1017
0858	WBWI 92.5	WI	1118
0809	WOLX 94.9	WI	1082
0813	KKMI 93.5	IA	889
0815	WPRE 94.3	WI	1025
0819	KOKZ 105.7	IA	963
0820	KBOE 104.9	IA	883
0822	WGLX 103.3	WI	1137
0826	KKSI 101.5	IA	670
0828	KOEL 92.3	IA	985
0828	KTUF 93.7	MO	815
0829	WYTE 96.7	WI	1149
0830	WLJY 106.5	WI	1151
0834	KTWA 92.7	IA	868
0835	WOPH 94.7	WI	1169

DECEMBER 1994

SOUTHERN FM DX

7/11

1027	WQZZ 93.5	WI	1182
1029	WQQM 106.3	WI	1064
1031	WJMQ 92.3	WI	1173
1032	WDUX 92.7	WI	1152
1034	WIZD 99.9	WI	1145
1035	WGLF 97.7	WI	1021
1035	WMT 98.5	IA	949
1039	WAMD 105.9	PA	1294
1045	KIAT 93.9	IA	989
1049	WZEE 104.1	WI	1064
1049	WTKM 104.9	WI	1107
1051	WQTC 102.3	WI	1176
1052-1112	(144-MHz to: OH & PA)		
1125	WLBC 104.1	IN	1049
1127	CILQ 107.1	ON	1439
1127	CKDK 103.9	ON	1439
1135	WJLB 97.9	MI	1239
1138	CKLW 93.9	ON	1233
1142	CIMJ 106.1	ON	1398
1145	WKQI 96.5	MI	1239
1148	KEZO 92.3	NE	830
1148	KWYR 93.7	SD	957
1148	KKOK 95.7	MN	1123
1151	KXRA 92.3	MN	1149
1153	WVIC 94.9	MI	1196
1154	KKME 93.9	SD	1036
1156	KELO 92.5	SD	876
1157	KQSW 96.5	WY	1014
1159	KAML 98.9	WY	1030
1204	KQIX 93.1	CO	874
1206	KGYE 92.7	SD	1033
1207	KJYE 92.3	CO	873
1214	KSSZ 92.7	ND	1124
1225	KSSD 92.5	ND	1018
1245	KXAZ 93.5	AZ	895
1251	KKWZ 93.7	UT	1000
1258	KPRE 94.9	UT	1009
1300	KDSS 92.7	NV	1148
1302	KZEZ 93.5	UT	1010
1304	KPAR 92.7	NV	1219
1305	KSGC 92.1	AZ	805
1309	KFEF 98.1	CO	1002
1327	KEKB 99.9	UT	878
1331	KSDP 104.3	UT	1087
1335	KWJY 106.5	UT	1059
1344	KYKN 103.9	UT	1030
1345	KMYH 105.1	UT	1011
1349	KEBN 97.9	UT	1133
1354	KPCL 95.7	NH	747
1408	KFMD 95.7	UT	1031
1408	K228CL 93.5	NV	1130

07-12-94:

0931	KMTN 96.9	WY	1175
0940	KFLC 94.5	SD	1002
0950	KWYR 93.7	SD	957
0953	KQDY 94.5	ND	1211
0953	KSCF 93.5	MN	1108
0957	KGFX 92.7	SD	1033
0958	KQSD 91.9	SD	1033
0959	KFSU 91.9	ND	1213
1016	KRCS 93.1	SD	1061
1026	KGAA 94.9	SD	1080
1031	KVCX 101.5	SD	944
1033	KAML 96.9	WY	1090
1037	KLZY 92.5	WY	1187
1040	KMCM 92.5	MT	1229
1151	WJPD 92.3	MI	1319

07-14-94:

0838	WJMO 92.3	OH	1263
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Dyer, cont.

1178	0843 WNIZ 96.9	IL	1078
1064	0849 WKHL 96.5	WI	1110
1173	0850 WKTI 94.5	WI	1110
1152	0854 KSSZ 92.7	ND	1111
1145	0901 CJBX 92.7	ON	1342
1021	07-16-94:		
949	TRT3 WGRS 96.9	KY	1010
1294	07-17-94:		
989	1200 KILA 90.5	NV	1052
1064	1200 KUNV 91.5	NV	1051
1107	07-19-94:		
1176	0914 WAIF 92.5	MI	1323
1049	0822 WHWL 95.7	MI	1323
1439	0824 WRJO 94.5	MI	1255
1239	0831 WJPD 92.3	MI	1319
1233	1047 KDAL 95.7	MN	1244
1398	1055 KQDS 94.9	MN	1245
1239	07-20-94:		
830	1016 WXLK 92.3	VA	1187
957	07-21-94:		
1123	1100 WXLK 92.3	VA	1187
1149	1103 WJJD 93.9	KY	923
1196	1106 WLIL 93.5	TN	937
1036	1106 WAXM 93.5	VA	1040
876	1109 WXCC 96.5	WV	1033
1014	1113 WJJD 97.7	VA	1030
1030	1128 KMAL 92.7	MO	807
873	1131 WYGY 96.5	OH	1058
874	1132 WCOL 92.3	OH	1139
1033	1134 WHIC 94.3	KY	815
873	1134 WQXY 97.7	OH	1044
1124	1136 WINN 106.1	IN	987
1018	1136 WXLN 105.7	KY	961
895	1141 WFZQ 107.3	IN	1000
1000	1147 WLBC 104.1	IN	1049
1009	1148 WXXF 97.9	IN	1031
1148	1150 WTTS 92.3	IN	884
1010	1151 WQKC 93.7	IN	964
1219	1153 WVKS 92.5	OH	1161
805	1155 WACF 96.5	IL	832
1002	1157 WTPJ 107.9	IN	1004
878	1202 WKGI 95.5	MI	1239
1087	1208 WQWD 103.1	IN	1036
1059	1209 WHZF 103.7	IN	1041
1030	1211 WJQB 102.9	MI	1205
1011	1214 WJXQ 106.1	MI	1182
1133	1217 WJXQ 103.9	MI	1228
747	1219 WOOD 105.7	MI	1165
1031	1219 WVGR 104.1	MI	1165
1130	1220 WWCX 105.5	MI	1247
1175	1223 WQXC 100.9	MI	1147
1002	1224 WKGH 92.3	MI	1151
957	1226 TIKK 108.7	IL	1003
1211	1229 WKIO 92.5	IL	938
1108	1235 WNIZ 96.9	IL	1078
1033	1238 WDEK 92.5	IL	1017
1033	1239 WJTW 93.5	IL	1019
1061	1240 WKHL 96.5	WI	1110
944	1240 WLHT 95.7	MI	1178
1090	1241 WYSY 107.9	IL	1028
1187	1243 WLUF 97.9	IL	1053
1229	1244 WJIL 95.1	WI	1090
1319	1245 WAIR 92.5	MI	1323
	1257 WVVX 103.1	IL	1061
	1248 WTAZ 102.3	IL	925
	1249 WHRR 101.7	MI	1161

SOUTHERN FM DX

7/21

1252 WKHQ-105.9	MI	1309
1255 WZTR 95.7	WI	1110
1255 WHIL 106.1	WI	1110
1301 WMYX 99.1	WI	1097
1301 WKTI 94.5	WI	1110
1310 WDOR-93.9	WI	1228
1324 WBWI 92.5	WI	1118

07-26-94:

1113 WWSW-94.5	PA	1292
1125 WCOL-92.3	OH	1139

Though down a lot from the high June levels, FM Es still kept things very busy in July. It looks like for duration and geographical spread, Jul 11 is "the day of the month (with the 5th being a very close "runner up")."

'94	dys	#	min
May	11	18	1450
Jun	25	48	3495
Jul	20	28	1850

ADDENDA:

08-28-94: 1454 WRHA 105.1 SC JOHNSONVILLE (area ad) 1160

The 106.5 LAS VEGAS call should be KSNE.

Dyer, cont.

DECEMBER 1994

07-27-94:

1004 WZKL	95.7	OH	1254
1021 WCVZ	92.7	OH	1185
1033 WQLZ	92.7	IL	873
1034 WNCI	87.9	OH	1140
1041 WSTQ	87.7	IL	975
1043 WGY	96.5	OH	1058
1051 WCOL	92.3	OH	1139
1051 WCLR	85.7	OH	1095
1054 WRBI	103.9	IN	1013
1058 WHMG	83.5	KY	923

NORTHERN FM-DX

GREG CONIGLIO
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V131KKDN@UBVM.S.BITNET

For DXers in: MA,NH,VT,CT,MA,RI,NY,PA,NJ,OH,MI,IN,IL,WI,MN,IA,NE,SD,ND,MT,WY,SD,WA,OR,AK,Canada
DECEMBER 1994 DEADLINE: The 5th LOG CUTOFF: 3 months from postmark

A small column this time around, the first time that has happened in quite awhile! Conditions for the most part have been fairly quiet. There was an increase in activity in the midwest and east during mid-October, although judging by the few reports received, and how the opening went from here, TV was more affected by this opening than the FM was. Indeed, members have seemed to concentrate on minor trop openings, trop scatter, and, unfortunately, bagging new locals and semi-locals, with the lack of anything major. I have had some reports of off-season E-skip here and there, but nothing into the FM band. Nov. has been quiet so far. HAPPY HOLIDAYS!

JOSEPH FELA - 150 ROBERT PLACE - SO. PLAINFIELD, N.J. - 07080

Equipment - McIntosh MR-78 tuner/stacked Stereo Probe 9s + a single Stereo Probe 9, on rotors, at 40 ft., Bolin phase box.

Time: ELT

AUGUST 11

11 Tr [continued from last report]		
0059 [WUKY]-91.3 KY Lexington, ID, c,		
prev. heard as WBKY on Es.	561	
0100 WOSU 89.7 OH Columbus, ID, c,	455	
0110 WPAY 104.1 OH Portsmouth, ID, k,		
WAEB phased.	474	
0115 WRZQ 107.3 IN Greensburg, ads, call	598	
0132 WXVU 91.7 OH Cincinnati, call,		
Nightways with Cleopatra, r	544	
0152 WJER 101.7 OH Dover, contest,		
AM/FM ID, rock	372	
0159 WCLRt 95.7 OH Piqua, o, apparent		
legal ID given both softly and		
quickly thus garbled. Everything else		
heard fairly clear!, "Kool 95"		
0635 WJPA 95.3 PA Washington, o, mention		
of WJPA-1450, ads.	307	

19 Es

1750 KDJS 95.3 MN Willmar, "K-95.3",		
Willmar ad		
1757 [KKOK]-95.7 MN Morris, call, "Easy k"		
Ex: KMRS	1139	
1800 KTIS 98.5 MN Minneapolis, legal AM/FM		
ID, into nx	1007	
1808 KQWC 95.7 IA Webster City, ads	1011	
1824 [KKOT]-93.5 NE Columbus, call, wx,		
Ex: KITT/KWNG	1199	
1835 KTGL 92.9 NE Beatrice, "Lincoln's		
Classic Rock, The Eagle"	1174	
1922 KZOC 92.9 KS Osage City, "KZ-93"	1147	
1939 KSNP 95.3 KS Burlington, o, ads, call	1146	
1943 KMUW 89.1 KS Wichita, wx, ID	1244	

AUGUST 24 Tr

2222 WWSE 93.3 NY Jamestown, "SE-93",		
contest w/address, ads	271	
2307 WMAJQ 102.5 NY Buffalo, "Q-102", r	280	
SEPTEMBER 21 Tr		
2301 [WKIK]-104.7 VA Crewe, ID, k aimed		
at the Richmond market.	309	
OCTOBER 8 Tr		
0646 WMTZt 96.5 PA Johnstown,		
"The Mountain 96.5", w/American		
Country Countdown		
0706 WVSC 97.7 PA Somerset, local nx	249	
0826 WFGY 98.1 PA Altoona, "Froggy 98" +		
call, k, WOGL phased	209	
19 Tr		
2000 WXTM 99.7 NY Monticello, legal ID		
inserted, carrying WJUX-88.7 with		
virtually all Jukebox Radio-103.1 IDs		
(WJUX's Ft. Lee, N.J. translator)		

30 Tr

0700 [WSSF]-104.3 MD Baltimore, legal ID +		
"The Colt" (?-The Cult?), WAXQ		
phased, ex: WITH/WDJQ/WBSB/WVRT	133	
0730 Most Washington-Baltimores o/NYC		
with phasing.		

On car radio -

0801 WPEX 88.3 NY Southampton, ID heard		
over local WBOG, chewing WBOG		
badly while driving around but		
couldn't get them at home with		
phasing. Must be WPEX's high		
vertical/low horizontal powers.		
Time to add a vertical antenna.		

73, Joe

NORTHERN FM DX

DECEMBER 1994

TIM MCVEY - 124 TIMBER LANE - HANOVER, PENNSYLVANIA 17331

Equipment: Trusty old Pioneer TX-7500 with front end-IF mods, Stereo Probe 9 on a rotor hanging bat-like in the attic; several other tuners and homebrew electronics that'll eventually be turned into a totally outstanding setup.

SEPTEMBER 1994 DX

18 Trs

0300 WWSE 93.3 NY Jamestown, SE93, mor		
0320 WKIK 104.7 VA Crewe, "The Bear", k, lcl ads		

27 Trs

2100 WBBG 93.3 OH Youngstwn, Oldies 93 WBBG		
---	--	--



OCTOBER 1994 DX

8 Tr (175-300 mile logs)

0737 WPDH 106.1 NY Jeffersonville, aor, "the home		
of rock and roll, 101.5 WPDH" heard		
0738 WPDH 101.5 NY Poughkeepsie, local quality		
0740 WRCH 100.5 CT N.Britain, calls, oldies		
0743 WAQY 102.1 MA Springfield, classic rock Q102		
0752 WHCY 106.3 NJ Blairtown, "Hot k 106.3"		
0755 WHCN 105.9 CT Hartford, classic r. 106HCN		
29 GW		
0842 WVOS 95.9 NY Liberty, "modern k is WVOS"		
2050 WXJN 105.9 DE Lewes, k, "Kicks 106"		

We just moved back from the U.K. and finally got settled into our new home. Hanover is close enough to 3 major cities that I can regularly listen to the stations that I really care about in Philly/DC/Balto...but far enough away from all that I can DX. Indeed, considering I'm using a beat up attic mount antenna and shoddy Radio Shack so-called RG-8, I am amazed at the stations that roll in here regularly up and down the crowded dial. FYI here's three MD stations changes of interest: 103.1 Grasonville is now WRNR (ex WXZL) playing true, progressive/alternative. 104.3 WSSF in Baltimore is now one of those 1970's "classic rock" stations, calling itself "The Colt" in a cheap, short-term marketing ploy connected to the city's resurgence on the football scene (legally referred to as the Baltimore CFL's!) Nice to say goodbye to those tacky WSSF Soft 104.3 billboards with Barry Manilow, Barbara Striesand, and Neil Diamond towering over the interstate. Lastly, WTMD 89.7 Towson, MD is playing new age music all the time now. Kind of neat to hear a different format from the usual kountry and lame rock everywhere. Couldn't work the 8 Oct duct after 0800 due to work, but it would have certainly filled up the logbook in a hurry. This is my first NFMDX report ever; hope Danny Buntin (and Elvis) will forgive a TN boy moving above the Mason-Dixon line. Well, enough chatter...next time there'll be light DX and less talk. 73.... (Welcome to Northern FM, Tim. It is good to hear from you again, and we hope to hear from you often!-gc)

dBRUCE HALL - 5 STIRTON AVE. - BRANTFORD, ONTARIO CANADA N3T 1E2

Equipment: JVC JR-S201 receiver (IF mod with 3 110 khz filters), Magnum Dynalab Sleuth 205 amp, Probe 9 fed with RG6 at 50 feet AGL, Crown Rotor, Distances are in kilometres.

OCTOBER 1994 DX

8 GW/Tr

0800 W297AB 107.3 NY Williamsville, "today's hot new		
country WNUC 107.7" // 107.7 WNUC	122	
0816 WICT 95.1 PA Grove City, (Youngstown OH)		
"Could you turn that racket down, I'm trying to listen here		
-Go ahead, make your day and turn it up really loud.		
Today's hot new country is on the new Kat Country 95"		
(ex K-Rock 95)	162	
0900 WOUZ 90.1 OH Zanesville, "This is Ohio Univ.		
Public Radio, WOUB-FM Athens, WOUC-FM Cambridge		
WOU-FM Ironton, WOUH-FM Chillicothe, WOUZ-FM		
Zanesville"	477	

15 Tr

1119 WBYS 98.9 OH Van Wert, "One great classic		
after another, 98-9 The Bear"	435	

16 Tr

0000 WBUK 107.5 OH Ft.Shawnee, "Oldies 107.5 the		
Big Buck", Lima Land mention, legal ID w/Lima	416	
0908 WCLX 93.9 MI Mio, "Now there are two places to		
turn to hear cont. favourites all day every day, 100.7 and		
93.9 - Super Station CLS"	352	

73, dB



MIKE CHERRY (VE7SKA) - BOX 631 - GANGES, BRITISH COLUMBIA V0S 1E0

Home equipment: Toshiba SA-500 receiver, Channel Master rabbit ears with tune sw. FM beam not up yet
Mobile: Toyota FM stereo receiver w/180 khz IF. Mobile loggings indicated. PDT used.

AUGUST 21, 1994 MS

0739 KUER 90.1 UT 7 secs, calls, prev Es 795

SEPTEMBER 25 Tropo

0643 KKZX 98.9 WA Spokane, KEZX off air 299
0658 KMBI 107.9 WA Spokane, religion(&), ID 299
0700 KPBX 91.1 WA ID, "wknd. edition" 299

OCTOBER 1994 DX

5 Tropo (Long Beach, BC, w. coast of Vancouver I.)

0914 KLCO 90.5 OR \$jazz, &, blues 330
0916 KMUN 91.9 OR c\$, coming events 200
0919 KKEE 94.3 WA oldies\$, ads 190
0924 KLLM 103.9 WA ads, k\$ 105
0927 KJJK 95.1 OR ID, k\$ & 405
0933 KYTT 98.7 OR "K-Lite", relig t(weak) 410
0934 KSHL 97.5 OR "K-Shell", k music 315
0939 {KJZ} 106.7 OR "Smooth 106.7", jz\$ 255
0944 KINK 101.9 OR adult altern, \$ 250
0952 KRSB 103.1 OR ID, wk, NEW RECORD! 435
0955 KYTE 102.7 OR \$, o/local xlr CIWC 330
0958 KBPS 89.9 OR ID\$ w/AM 1450 250
0959 KOFE 88.9 OR ID, weak 350
1001 KMGE 94.5 OR "Magic 94.5", rm mx 360
1002 KMCQ 104.5 OR ID, wx, ads 265
1000 Vancouver BC & Bellingham FMs
1004 KAOS 89.3 WA ID, modern r (weak) 145
1005 KACS 90.5 WA under KLCO 155
1007 KTBC 91.7 WA \$calls, op music 140
1008 KUGN 97.9 OR PSA, k\$, ads 360
1010 KHPE 107.9 OR K-Happy, mg\$ 330
1012 KXOA 107.9CA, 12 sec. ID (MS) 360
1017 KBCS 91.3 WA \$, calls 140
1020 KLYK 105.5 WA rm\$, PSA 220
1021 KBOO 90.7 OR ID, t (weak) 250
1023 KWAX 91.1 OR promos, \$ 360
1024 KLCC 89.7 OR jazz // KLCO 360
1027 KODZ 99.1 OR "Oldies 99.1" \$ 360
1030 Portland-Seattle-Tacoma FMs

October 6 Tr (Long Beach)

0835 most Portland FMs
0845 most Seattle/Tacoma FMs
0840 KTLT 104.1 OR PSA, sports, \$ 270
0847 KCED 91.3 WA under KBCS 155
0854 KVLV 99.3 NV "Reno's Rock 99" (MS)
0856 KAYO 99.3 WA news, ad (weak) 140
0859 KGHO 95.3 WA mono, relig. talk, ID 140
0900 KSER 90.7 WA over KBOO, eclectic 135
0918 K217AY 91.7 WA xlr KPLU 88.5, weak 130
0925 KCMU 90.3 WA grunge rock, ID 140
0929 KJJK 95.1 OR calls, ad 405
0931 KBCS 91.3 WA \$ over KCED 140
0932 KACS 90.5 WA relig t, \$, no KLCO 155
0934 KSKD 107.1 OR mg, \$, "K-Love" 345
0935 KMCQ 104.5 OR Portland ads, \$ 265
0936 KLYK 105.5 WA ID\$, hot AC 220
0937 CKGR 100.1 BC ID w/CFWB-AM 80
0939 KYTT 102.3 WA wx, promo (weak) 275
0942 KMNT 102.9 WA K103, k\$ 160
0946 KODZ 99.1 OR o, ads 360
0949 KLCO 90.5 OR under KACS 330
0951 KUGS 89.3 WA calls, grunge rock 1200953
KZAZ 91.7 WA ID, c, over KTBC 120
0957 KUMZ 94.7 WA ID, mb, still K-Music 260
0958 KNHC 89.5 WA C-89, ID, rs\$ 140
1049 KVTI 90.9 WA CHR, 1-91-FM 145
1000 CBU1 92.1 BC CBC news, \$ 100
1004 KCRF 96.7 OR o, ID, FINALLY! 315
1077 KLCC 89.7 OR jz, w/ms bursts 360
1009 KSHL 97.5 OR calls, ad, k (weak) 315
1010 KBVM 88.3 OR relig t, calls, \$ 255
1015 Wash. Coast: 95.3, 103.9, 104.7, 94.3, and also Astoria 91.9, 92.9
1035 Vanc BC: 93.7, 96.9, 101.1, 103.5, and 104.9 but no Bellingham on 92.9 or 104.3!

As always, my autumn "tropo vacation" provided some treats! The first 2 days out on the west coast were hot, clear and sunny - not tropo producing weather. A little scatter from the Wash. coast, notably KLLM 103.9, KGHO 95.3, KDUX 104.7, KKEE 94.3 showed up occasionally. 10/5 and 10/6 hit pay dirt as fog obscured the sun all along the BC, WA, and OR coast. Surprisingly, tropo from the Oregon coast was only so-so, not like last year when signals were incredibly strong, even down at sea level! Tropo from inland Oregon turned out to be the big treat with KJJK 95.1 and KRSB 103.1 the prize catches. As always, there were tons of meteor bursts and "pings" coinciding with the Sextantids shower (30 zHr per hour). I am looking forward to a visit from WTFDA member Todd Brandenburg, KA0KAN who will be here Oct. 19 & 20. Hopefully some VHF DX will occur. Hope everyone has had lots of tropo this fall and that lotsa winter Es shows up! 73\$ de VE7SKA.

FRED NORDQUIST - 7945 BOXFORD ROAD - CLAY, NEW YORK 13041-8606

Equipment: same

SEPTEMBER 1994

16 TR

2119 WQWB 105.5 NY Little Falls r ID Wow-105 w/ WGES phased nullled 64
2142 WSLK 106.3 NY Saranac Lake k Kickin Country K106 130

Totals: 1691. Tropo to IN/MI noted on 10/15 but spent session TV-UHF DXing. DX has been meager as of late (was K/MO/AR/MO/KY visiting relatives and attending 30 college class reunion 10/20-10/29) - 73-Fred



WELCOME NEW REPORTER!!

LESLIE G. WOOD - 1463 TADMOR ST. - NORTH MERRICK, NEW YORK 11566

Equipment: GE Superadio III with whip antennae

OCTOBER 1994 DX

8 Tropo

2200 WZBH 93.5 DE Georgetown
2305 WWDB 96.5 PA Philadelphia
2315 WZZO 95.1 PA Bethlehem

OCTOBER 9 Tr

0050 WQRC 99.9 MA Barnstable, nice signal
19 Tr
0910 WYSP 94.1 PA Philadelphia
30 Tr
0830 WRBS 95.1 MD Baltimore, with good, local sig.
1000 WSTW 93.7 DE Wilmington, nice signal, seemingly all alone, with many IDs.

Nice tropo on morning of October 30th, with a few stations coming in like locals. Sent QSL reports out to WYSP, WZBH, and WRBS. Latest varies in are: WLNE TV-6, KNSW TV-3, FM; WPKN 89.5, WQRC 99.9 (Thanks for reporting, Leslie. We hope to see more reports from you!-gc)

GREG CONIGLIO - 5100 GLENWOOD DRIVE - WILLIAMSVILLE, NEW YORK 14221

Equipment: Pioneer TX-9100 tuner modified with 150khz and 180 khz filters, CM Stereo Probe 9 FM antenna = 20' AGL, CAC11 & RG6 coax. Phasing: Jerrold 10 element TV antenna at = 25' AGL, rotatable, into "two capacitors in a phase box", and switchable rabbit ears both into a 0-10-20 db Radio Shack amp.

OCTOBER 1994 DX

12 Tr/GW

2257 WLLG 99.3 NY Lowville, legal ID, finally! 170
2320 CJKX 95.9 ON Ajax, k\$, testing, now on the air with k\$, and "KX-96" slogan 70

13 Tr

0729 WGMR 101.1 PA Tyrone, o/local CKEY 162
0750 WHPA 104.9 PA Hollidaysburg, strong 177
0800 WFGY 98.1 PA Altoona, k\$, o/lcl CHF1 172
0806 WLIF 101.9 MD Baltimore, rare, strong 277

15 Tr

2346 WNUY 100.1 IN Bluffton, Y-100, legal hrd 369
2347 WBYP 98.9 OH Van Wert, op\$ o/WKLY 337

16 Tr

0006 WQHK 105.1 IN Decatur, many Ft. Wayne ments., K105 slogan, CST checks, k\$ in mess 354
0042 WLDE 101.7 IN Ft. Wayne, Oldies 101.7 357
0625 WCRZ 107.9 MI Flint, Cars 108 o/CING 253
0630 WSAQ 107.1 MI Pt. Huron, k\$ o/CILQ 190
0640 WLEW 102.1 MI Bad Axe, very strong over local CFNY with ads, rm\$ 224
0646 WMYX 99.1 WI Milwaukee, ads 467
0655 WBMI 105.5 MI W.Branch, Cool 105, o\$ 292

Oct. 16 Tr cont.

0920 WCLX 93.9 MI Mio, "Superstation CLS" with soft a/c // WCLS 100.7 Oscoda 295
0930 WKHQ 105.9 MI Charlevoix, Hits 106 364
1000 WCLX 93.9 MI Mio, now picking up and relaying CHIN 100.7 Toronto, not WCLS! 295
2219 WZOM 105.9 OH Defiance, o\$, ment. moving to 105.7 that Thursday! 314
2230 WLEN 103.9 MI Adrian, o/CKDK 283
2354 WELL 104.9 MI Marshall, country 323
17 Tr
0005 WKKO 99.9 OH Toledo, K100, k\$, in VERY well over local CKFM Toronto 264
0015 WQKL 107.1 MI Ann Arbor, o\$, Kool 107, ads, over local CILQ 262
0023 WLDE 101.7 IN Ft. Wayne, o\$, WBTF off 357
0032 WKHM 105.3 MI Brooklyn, phased CFCA with b\$, and calls 290
0124 WDFM 98.1 OH Defiance, a/c parallel to W19BN!, in over CHF1 local 314
0135 WRQN 93.5 OH Bowling Green, o\$ 278
30 Tr
0930 CIOB 101.1 ON Barrie, testing with hot a/c\$ music and "B101", ph/CKEY 110

Some nice tropo openings during mid-October came as a pleasant surprise! Nice to add some much wanted stations from Michigan, Ohio, and Indiana. On FM, though, for the majority of the time, signals were on the weak side, in contrast to the huge signals seen on TV. Totals now 1973, a testimonial to what I call my best season ever, by far, blowing away my previous best skip year of 1990. Some of the recent loggings though, have been bittersweet, as they have been new locals, semi-locals, or local translators of a station that comes in fine anyway! (WNUC). And I hear that there are many more semi-locals coming, as they CRTC moves AM stations onto the FM band. I have heard that we may be getting a few more stations in the Niagara Peninsula of Ontario region-I hope I don't lose my very open freq. of 104.9. On the weekend of October 22-23, I, along with about 10 other DXers, make the trek to Brantford, Ontario, for a mini-DX get together put on by Bruce Hall. He really put on a good get together, and I enjoyed the whole weekend! Some minor enhancement greeted us, to Pittsburgh and Ohio, but nothing major. Enjoyed meeting everyone and seeing people once again. Well, this being the final 1994 VUD, I would like to thank everyone who has reported to the columns this year, and hope to continue to hear from you in 1995! Have a great holiday season!

EASTERN TV-DX

Stephen West
26 Dougherty Blvd. G-8
Glen Mills, PA 19342-1140

(610) 358-2648

December 1994

Deadline: 5th

High pressure and warm weather over the Eastern half of the United States has brought improved tropo conditions to many DXers. Bob Seybold even logged some skip on October 23rd. October 15 through the 18th were the best tropo days. Thanks to all of our reporters, keep the reports and DX rolling in!

Robert Seybold, 76 E. 6th Street, Dunkirk, New York

Comments: Tropo have not developed much since the end of August. September is usually an excellent month for tropo. September 15th did bring in tropo from; Cadillac-33 (MI), Gaylord-45, WMCU-14, W67CS Sault Ste. Marie and Wisconsin on 15, 18, 20, 21, 27, 32, 36 and ch. 38.

DX made a rebound on October 15th with evening tropo from; WSEC-14, KMEG-14 KYOU-15, WANE-15, Grand Rapids-15, WICD-15, WNDU-16, WUSI-16, KDMS-17, Rockford-17, 23 & 29, WLFI-18, KLJB-18, Defiance, OH on 19, Chicago 20, 26, 32, 44, 50, 60 and 66, Joliet-35, Indianapolis 20 & 40, KDOB-40, KTIN-21, WPTA-21, KSIN-27, Red Oak-36, KJMH-26, WTCT-27, W36AR-IN, WFSJ, WEIU-51, W53AV-IN, W66BD-Ft. Wayne, Box 45 Ft. Wayne, 33, 39 & 55 Ft. Wayne, KBSI-23, KSMO-62, KPTM-42, WYZZ-43, WILL-12, KDUB-40, WQAD-8, Lima 27, 35 & 44, WHCC-23, Kokomo-29, South Bend 22, 34 & 46, WSJV-28, Fox 28? (not Columbus), Milwaukee 18, 30 & 36, Battle Creek 41, Sand. 41 + 52, Toledo LPTVs, Saginaw 49, WCFM-49, Lansing 23, 53 & 47, Kalamazoo 52 & 64, Grand Rapids 17 & 35, Detroit LPTV-26, Rockford LPTVs 33 & 45, Indiana 56 & 62, Angola 63, Bloomington 63, W65BV-IL. The peak of this opening was the evening of the 15th into early morning of the 16th. Evening of the 16th brought Chicago and Michigan. The evening of the 17th central Michigan and Ohio were strong. October 18th (AM) brought Burlington, VT 33 and some Canadian UHF's.

October 23 at 1945 Es returned with WBRZ-2 Baton Rouge, LA.

Richard Contone, 162-07 87th Street, Jamaica, New York 11414

Comments: I have been receiving semi-locals from Connecticut and Long Island regularly on UHF TV. I had home shopping on Ch. 15 or 16? (maybe you were getting in image from Ch. 68 Newark, NJ or Ch. 14 in D.C.? sw) I will be getting a mast mounted amplifier soon, along with some new RG-58.

TOM BRYANT - 849 TODD PREIS DRIVE - NASHVILLE, TN 37221 - 615-646-2000 - (COT)

EQUIPMENT: VHF: Winegard CS-4054 @ 20'; UHF: Antennacraft P-5 parabolic w/Antennacraft preamp @ 25'; RG-6 coax on each. Channel Master HD-9515 rotor. Emerson VCR (model 754); Portland 13" color receiver. New loggings bold type and underlined. Tr relogs noted only when rare.

9/18/94 Tr 0159 W57BV 57 AL 112 (TBN/Florence)
Tr 0229 W53AF 53 MS 141 (religious/Booneville)

10/16/94 Tr 0200 WTXL 27 FL 407

10/31/94 Tr 0018 KTAL 6 TX 463



NOTES: Nothing special about the LPTVs other than the fact that I'm surprised I've never seen them before. The WTXL was the second opening to Tallahassee this year. Unlike the first, this was to a wide area of AL and GA, with repeat loggings from Columbus, Atlanta, and Montgomery. WTXL was in for over 3 hours varying from near s/f to almost unid-able...most of the time quite watchable. The big surprise was a call from Doug Smith late nite 10/30 (prompted by a tip from Ed Phelps). I didn't get the stuff from deep into TX that they were, but I did manage to nail KTAL audio via the Stereo Probe 9 and Yamaha TX-930. That's one I only dreamed of logging...from the DX 'Twilight Zone'...too close for Es and (almost) too far for tropo! 73's and goodDXing.....Tom

Eastern TV-DX

December 1994

Doug Smith, 1385 Old Clarksville Pike, Pleasant View, TN 37146-8098

Equipment: Sears 19" color stereo TV; Archer VU-160 for VHF; RS corner-reflector for UHF, with CM-7475 preamp.

October 1994 DX

16 Tr	0930	WJSP-28	GA	(279)
		(Note #1)		
18 Tr	0851	WBMG-42	AL	(201)
		WABM-68	AL	(202)
		WTTO-21	AL	(201)
	0900	WIIQ-41	AL	(281)
		WTJP-60	AL	(181)
	0911	WVTM-13	AL	(200)
		WCFT-33	AL	(223)
		WDBB-17t	AL	
	0930	WDIQ-2	AL	(336)
		WALA-10	AL	(395)
	1006	WSBN-47	VA	(249)
	1032	WSFA-12	AL	(309)
	1100	WBIQ-10	AL	(201)
31 Tr	0335	KTVE-10	AR	(371)
		(Note #2)		

snow-free
s/f
APT ID



CCI to local WZTV
under local WKRN; // WHIQ-25
Gulf Shores ad
(where'd they come from?!)
legal aural ID
APT ID
ID bars

Note #1: Apparently the tail end of a very good opening. Tom Bryant had Tallahassee about 5 hours earlier; I was too tired from a drive across the state to DX...

Note #2: This opening was much better than the sole logging would indicate. Had Houston FM, and four TV unIDs consistent with Houston, plus other unIDs consistent with KARD-14 and KNOE-8. Does KARD still run HSSpree overnight? How about ID color bars on KXLN-45?

William R. Hepburn 35 Lockwood Rd. Brampton ON L6Y 4T7 CANADA

Rcvr: Panasonic PC-29XF40R TV, JVC HR-D630U VCR & Icom IC-R100 Rcvr
Ant: attic VHF dipoles & 2nd floor UHF 4-bay

OCTOBER 1994 (EDT)

15 TR	0409	SBn 16.28.46	IN	356	16 TR	0722	WGVK-52	MI	312	16 TR	0806	WICD-15	IL	487	
		2214	FWa 15.21.33	IN	328		Kalamazoo					Champaign			
16 TR	0515	SBn still in..				17 TR	0145	SBn 16.28	still in..			0211	WANE-15	IN	328
	0520	W66BV-66	MI	189			0724	WLFI-18	IN	417		0212	WFLD-32	IL	T
		Detroit	(TBN)					Lafayette				0236	WPTA-21	IN	T
		(0 offset)						(w/ID slide tp)				0238	Chi-44	IL	T
	0719	Chi 26.32.38	IL	T			0734	WTLJ-54	MI	321		0256	WVCY-30	WI	T
	0720	WMVT-36	WI	410			0735	WDJT-58	WI	T			(w/HSC Spree)		
		Milwaukee					0737	WGVU-35	MI	312		0317	WTLJ-54	still in..	
	0721	WFWA-39	IN	328			0751	WNIT-34	IN	T		2030	WTMW-14	(DC)	356
								(w/tp)							

NOTES: Some great tropo DX in mid-October as a broad slow-moving high-pressure system stalled over this part of the continent. First DX to the Champaign area (although this is *exactly* in line with my personal record Tr to St Louis on FM and Springfield MO on TV (i.e. -242° azimuth)). If the weather continues this mild...there is a strong possibility of more good fall tropo



STATISTICS

Featuring FM/TV Scoreboards, All Time Distance Records, States Stats and Personal Best Statistics of FM/TV Diers. (Column issued bi-monthly, 1982 Deadlines: Jan 5th, Mar 5th, May 5th, Jul 5th, Sep 5th & Nov 5th)

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Clay, NY 13041
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FM STATISTICS

11/14/94

STATES STATS

UPDATED 11/14/94		FM SCOREBOARD										DEADLINE: THE 5TH												
DXER NAME	DXER LOCATION	TOTAL	88-92	ES	MS	AU	USA	CN	MX	PO	TPU	YB	AS	OF:										
DYER	PAT TX SAN ANTONIO#	2691	425	2198	73	0	44+	4	21	5	75	70	10	31/93										
STROBEL	RALPH IN MUNCIE	2305	617	770	178	7	43+	7	5	2	58	72	09/03/94											
BUNTIN	DANNY OK STILLWATER	2032	344	1210	4	0	48+	5	9	2	65	74	07/01/94											
CONIGLIO	GREG NY WILLIAMSVILLE	1973	334	1032	24	38	41+	8	2	4	56	85	10/02/94											
FELA	JOSEPH NJ S. PLAINFIELD	1825	398	1006	2	10	36+	6	0	3	47	68	09/16/94											
ELVING	BRUCE MN DULUTH	1788	318	1375	9	8	47+	4	1	0	53	48	08/23/94											
EBELING	JOHN MN BLOOMINGTON	1782	306	1016	51	83	47+	6	5	0	59	52	01/01/94											
NORDQUIST	FRED NY CLAY	1692	356	836	48	59	41+	5	0	3	50	69	11/12/94											
HAWK	MIKE NE OMAHA	1381	267	722	30	0	47+	5	4	0	57	91	08/16/94											
CHERNOS	SAUL ON BURNT RIVER	1319	272	759	42	81	38+	8	0	1	48	77	08/12/94											
EBELING	JOHN MN PROSIT	1291	246	840	4	6	48+	9	2	0	60	75	01/01/94											
SITTEL	MATT FL TALLAHASSEE	1151	162	554	2	0	38+	2	6	4	51	92	10/04/94											
HOLBROOK	HANK MD DUNKIRK *	884	233	234	19	0	35+	7	0	3	46	59	03/28/94											
WISEBLOOD	STEVEN TX BROWNSVILLE	852	183	381	5	0	32+	0	9	7	48	92	07/13/94											
NIENAJADLY	BILL NJ CLIFTON	806	116	376	8	0	34+	3	0	2	40	75	07/01/94											
HALL	D. BRUCE ON BRANTFORD	800	132	153	106	2	40+	6	1	3	51	90	07/20/94											
SIEGEL	GARY OH TOLEDO	770	164	177	0	0	32+	5	2	1	41	76	11/12/94											
STEINBERGER	RICHARD MA HUDSON	736	155	329	12	6	35+	4	0	0	40	58	05/01/94											
MORGAN	GIL MO STOCKTON	527	102	64	3	0	28+	1	3	0	32	93	06/20/94											
CHERNOS	SAUL ON TORONTO	399	103	82	0	0	21+	1	0	0	23	77	08/12/94											
JEZIORSKI	MIKE FL CRESCENT BEACH	394	66	141	0	0	29+	3	0	2	35	93	07/01/94											
GEORGE	PETER MA STOUGHTON	384	87	140	20	2	36+	5	0	0	41	67	07/01/94											
MORGAN	GIL MO LEBANON	365	67	79	2	0	29+	3	3	0	35	94	10/04/94											
SMITH	DOUG TN PLEASANT VIEW	352	76	113	1	0	30+	3	6	0	39	94	08/13/94											
TUDENHAM	JOHN MO JOPLIN	263	37	22	0	0	20+	0	1	0	21	91	10/04/94											
BUENEMAN	ERIC MO HAZLEWOOD	174	28	67	0	0	22+	0	2	0	24	92	10/16/94											
ONYSCHUK	KEN IL STEGER	168	36	0	0	0	7+	0	0	0	7	68	08/20/94											
REMINGTON	SHEL HI KEAAU	135	19	0	1	0	2+	0	1	0	3	89	05/02/94											

* VERIFIED. # UPDATE SUBMITTED 10/31/94

COLUMN DEFINITIONS: are as follows: Total = Total number of FM stations logged from DXer's location (All loggings should be received within 25 mile radius of this location to count.) Freq. changes count as a station, call letter changes DO NOT count. Also count a station only once regardless if logged by different propagation modes. 88-92 = All stations logged from 88.0 to 91.99 Mhz. Es=Total number of stations logged by E-skip. MS=Total by meteor scatter. Au=Total via Aurora. USA=Total number of states and the "+" = Washington, DC. CN=Number of Canadian provinces logged. MX=Number of Mexican states logged. PO=Number of foreign countries, but not Canada/Mexico. TPU (Total number of political units)=Sum of USA CN MX and PO. YB = The year you began DXing from this location. Other groundrules for computing log totals are included in a separate page. Only 1994 entries are included. NOTE: Pay Dyer's new 386 computer should help him get caught up on his totals tally!-73,Fred

PERSONAL BESTS - FM STATISTICS - 12/94

CHANNEL METRICS - Pay Dyer - San Antonio TX - (as of:10/31/93)																					
MHZ	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	TOTAL
.1	31	29	16	13	25	20	45	40	19	19	30	10	16	14	48	36	22	20	50	534	
.3	32	29	13	10	51	38	45	54	16	2	37	29	6	14	52	29	17	9	54	22	559
.5	40	27	16	21	49	72	46	35	41	17	42	8	7	29	15	13	3	35	20	4	540
.7	29	27	10	8	60	38	20	39	41	64	32	13	24	9	1	27	13	31	19	16	521
.9	33	22	8	9	2	30	42	31	39	38	26	35	10	3	10	49	60	33	17	36	533
TOTAL	165	134	63	61	187	198	198	199	156	140	167	116	57	71	92	166	129	130	130	128	2687

CHANNEL METRICS - Fred Nordquist - Clay NY - (11/15/94)																					
MHZ	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	TOTAL
.1	24	14	24	16	5	9	26	12	16	21	13	20	30	14	15	9	20	10	15	19	332
.3	9	15	22	10	17	17	26	22	12	13	13	8	28	9	23	19	7	7	18	11	306
.5	17	18	21	7	18	36	9	26	16	21	20	20	6	22	11	22	14	35	17	17	373
.7	18	12	25	21	35	25	19	24	30	28	12	15	20	15	13	19	5	14	19	16	385
.9	28	10	27	18	18	19	18	11	11	13	10	13	8	26	7	14	7	22	8	8	296
TOTAL	96	69	119	72	93	106	98	95	85	96	68	76	92	86	69	83	53	88	77	71	1692

PU	#	DXER	#	DXER	PU	#	DXER	#	DXER	PU	#	DXER	#	DXER	PU	#	DXER	#	DXER
USA					USA (CONT)					CANADA					MEXICO				
AL	106	KPU-	69	MS12	MT	29	JJE2	25	JPI-	AB	30	JEB2	29	JJE2	AGU(AG)	2	MS12	1	JPI-
AK	11	JJE3	0	None	NE	76	MHA-	52	JJE2	BC	30	JEB2	11	JEB2	BCN(BN)	14	PDY-	10	FMC-
AZ	50	PDY-	36	JDU-	NV	26	PDY-	24	DBU-	BC	20	JJE2	11	JEB2	BCS(BS)	1	PDY-	0	None
AR	86	DOD-	63	DBU-	NH	33	RST2	17	AMI-	MB	15	FMC-	13	FMC2	CAM(CE)	1	JPI-	1	SW11
CA	380	JJE2	133	PDY-	NJ	83	JFE-	73	RSM-	NB	11	FME1	6	RST-	CHP(CI)	9	FME1	7	MHA-
CO	122	DAL-	70	JJE2	NM	51	JJE2	49	RST-	NF	13	FNO-	12	DNI-	CHP(CH)	3	PDY-	0	None
CT	49	MBU-	42	AMI-	NY	236	FNO-	198	DNI-	NS	15	FME1	9	KPU-	COA(CL)	8	FME1	6	PDY-
DE	16	JFE-	14	RSA-	NC	124	MS11	86	PDY-	ON	133	DNI-	131	GCO-	DF(DF)	21	TMC-	21	JPI-
FL	175	MS12	162	PDY-	ND	34	FMC-	34	FMC2	PEI	2	JFE-	2	RST-	DUR()	1	PDY-	0	None
GA	112	MS12	103	PDY-	OH	238	RST-	177	FME-	PO	31	DNI-	29	GCO-	GRO(GR)	5	PDY-	1	JPI-
HI	29	SRE1	0	None	OK	139	DBU-	74	GCO-	SK	12	FME1	9	JJE2	GTO(GH)	9	JPI-	2	TMC-
ID	28	DBU-	28	PDY-	OR	31	JPI-	29	FMC2	NWT	1	WHE2	1	JEB2	HGCHD)	1	JPI-	0	None
IL	225	FME1	219	RST-	PA	170	DNI-	142	JFE-						JAL(JA)	12	TMC-	10	PDY-
IN	218	RST-	132	DBR-	RI	14	WNO-	13	RST2						MEX(MC)	3	JPI-	3	PDY-
IA	120	RBR-	112	FME1	SC	61	MS11	60	PDY-	CUBA	6	RST-	5	FME1	MIC(MH)	3	JPI-	1	PDY-
KS	106	DBU-	90	TBR-	SD	40	JJE2	39	KPU-	BELT2	3	PDY-			MOR(MR)	5	PDY-	3	JPI-
KY	129	RST-	74	PDY-	TN	110	KPU-	93	JAY-	BERMU	3	DNI-	3	GCO-	NL(NL)	20	SW11	17	PDY-
LA	76	JFE-	73	GCO-	TX	320	PDY-	226	RST-	EL SA	8	PDY-	4	SW11	OAX(OX)	1	JPI-	1	PDY-
ME	45	RST2	30	KPU-	UT	30	PDY-	23	FME1	GUATE	15	PDY-	5	SW11	NAY(PA)	1	PDY-	0	None
MD	59	JFE-	48	GMA-	VT	16	RST2	14	KPU-	HONU	5	SW11	2	PDY-	PUE(PU)	5	PDY-	4	TMC-
MA	102	RST2	77	MBU-	VA	67	MS11	66	JFE-	JAMA1	14	KPU-	11	MS12	SIN(SN)	2	JJE2	1	DBU-
MI	172	RST-	139	FME-	WA	46	FMC2	35	DAL-	PUERT	4	KSI-	1	DNI-	SLP(SL)	2	TMC-	0	None
MN	194	JEB2	192	JFE-	WV	68	GMA1	40	RST-	D.REP	1	MS12	1	KSI-	SON(SO)	5	SW11	5	PDY-
MS	78	KPU-	64	TMC-	WI	143	BEL2	130	JEB-	BAHAM	1	FNO-	1	WNO-	TAB(TB)	2	TMC-	2	PDY-
MO	143	FME1	142	GMO-	WY	30	RST-	26	PDY-	COSTA RICA	6	SW11			TAM(TM)	25	SW11	13	MHA-
					DC	13	GMA-	13	DNI-						VCZ(VZ)	11	SW11	9	JPI-
															YUC(YU)	4	SW11	3	MS12

ABOVE STATS REPRESENT MOST NO. OF STATIONS FOR EACH POLITICAL UNIT (PU) LOGGED FROM A SINGLE SPECIFIED DXER'S LOCATION. FIRST AND SECOND PLACE DXERS ARE LISTED ONLY. OTHERS THAT ARE TIED FOR SECOND ARE NOT LISTED....FJM.

DXER INITIAL/NAME/LOCATION/COORDINATES	LAT.N.	LONG.W.	DXER INITIAL/NAME/LOCATION/COORDINATES	LAT.N.	LONG.W.
INIT DXER NAME	DEG MIN	DEG MIN	INIT DXER NAME	DEG MIN	DEG MIN
BEL2 BRUCE ELVING	MN	DULUTH	46	47</	

QSL CORNER & LOGOS RUN

Thomas J. Yingling, Jr.
221 Pinewood Road
Baltimore, MD
21222-2345
410-282-5649

VA WTMW 14 Arlington, reply as qsl
letter from William Kraemer, CE in 3
months. transmitter located close to WRC in
DC. (Holbrook)

DE WYUD 91.3 Newark, % University of
Delaware, Perkins Student Center, zip
19716. Letter from Rich McGuire, CE who
says "We were WXDR until 11/92. The call
belonged to the University of Dayton (Ohio?)
(Holbrook)

MD WJTM 88.1 Braddock Heights, send
back my prepared qsl card (pqc) in 5 month
from Paul Black. (Holbrook)

NB CBAF-3 91.5 Moncton, P. O. Box
950, zip E1C 8N0. QSL card and letter from
Marcel Cantin, Transmitter Supervisor. reply
in 2 months. Holbrook

VA WHRO 90.3 Norfolk & WHRV 89.5,
5200 Hampton Blvd., zip 23508-9476.
Letter from Herman Wood, CE mentions
antenna up with WHRO-TV 15 1000 foot
tower at the 630 foot level. Also station is
often heard on my car radio in my area!
Holbrook

MD WETH 89.1 Hagerstown
DC WETA 90.9 Washington, P. O. Box
2626, Wash, DC (no zip!) send letter from
Joseph M Davis, PE/CE. WETA has 75kw
erp at amsl 830' & WETH has 900watts at
amsl 2,325'. Holbrook

ON CBOF 90.7 Ottawa, % CBC, Box
3220, Station "C", zip K1Y 1E4. I sent an
tape report and got qsl reply from
J.M. Garriere, Audience Relations Officer
who mentions 84kw. Holbrook

MA WXTK 94.9 West Yarmouth, 278 S.
Sea Ave., zip 02673. Letter qsl from Vern
Coleman, CE (was CE for WCCB in 1943,
then tv, retired, & now part time) who
mentions station was completely rebuild in
1991 from ground up. Holbrook

MN KWGM 105.5 Montevideo, P. O. Box
738, zip 56265. Letter from Dwight L.
Mulder. He verified only after I met him in
person at conference & reminded him that he
had not answered my letter of two years
earlier! Elving

MN KKDO 92.3 Thief River Falls, P. O.
Box 218, zip 56701. Letter from Dave
Halvorton, Program Coordinator verified
after an personal contact with the station
owner at the MN conference. He mentioned
the format has since changed to country, and
my report was the furthest that has been
reported to us. Delving

AZ KENO 92.1 Green Valley, 1920 W.
Copper, Tucson, AZ 85745. Letter from
Charlie Morris, Program Director, sends
bumper stickers. Delving

FL WOO 107.3 Jacksonville, 8386
Baymeadows Rd., Ste. 107, zip 32526. Letter
from Kyle D. Dickson, CE who mentions that
two other fm's operate out of their complex
which are WAY 93.3, WEST 97.9 & as well
two am radio stations! Also send bumper
sticker showing their Rooster logo &
coverage map. Delving

MN KRCO 102.3 Detroit Lake, P. O. Box
566, zip 56502. Letter from Bob Spilman,
GM send an media kit, but no bumper sticker,
"as most people won't put them on their
cars" & promises to send a T-shirt when they
come in. Wants me to tune in before and after
they install some new parts in their
transmitter and report on reception. Holbrook
MN WELY 92.1 Ely, A long handwritten
letter by Jeanne A. Larson, President, after
several follow ups, including a phone call in
which she said she would not verify my
letter. Then out of the blue the letter came,
mentioning night time 10pm sign off. Elving

MN KKRC 93.9 Granite Falls, 675
Prentice St, zip 56241. Letter from Desanne
Hodge, GM says their operating hours are
from 6:45am to 12:30 am. It's a station I
received with an Andy Bolin Phase Box,
phasing out nearby WTBX 93.9
Hibbing, MN. Elving

SC WAGP 88.7 Beaufort, Box 119, zip
29901. Handwritten letter from Charles R.
Smith, GM mentions previous being heard on
Martha's Vineyard, MA (Ernie Cooper lives
nearby in MA?) also send bumper stickers &
program guide. Elving

MD ELHH9 156.65 Columbus Olinda, an
container ship on Chesapeake Bay near Town
Point, MD. QSL address is: Hamburg-
Sudamerikanische, Dampfschiffahrts-
Gellschaft, Eggert & Amsinck, OST-West-
STR 59-61 - Postfach 11 15 33, 2000
Hamburg 11, Germany. send card signed by
Capt. H. J. Schmidt, Title Master. (Holbrook)

MD P3RT4 156.80 TSL Gallant, container
ship at Sandy Point Light, Chesapeake Bay,
MD. QSL address is: Columbia Ship
Management Ltd. P. O. Box 1624, Limassol,
Cyprus. send card signed by name
unreadable, titled Master. (Holbrook)

MD KAFO 156.65 Chemical Pioneer,
tanker ship leaving Sparrows Point Shipyard,
in Dundalk, MD. Qsl address: Marine
Transport Line Co., 150 Meadowland Pky, P.
O. Box 1550, Secaucus, NJ 07094. card &
photo of radio room & ham qsl card. No
name of signer. (Holbrook)

MD LAYD2 156.65 Poly carp, bulk carrier
ship approaching CR-buoy. Qsl address is:
Rasmussen, Einar, Kirkegaten 1, Postboks
37, N-4601, Kristiansand S. Norway.
(Holbrook)

MD CG-41470 156.60, utility boat off
Ocean City, MD. Qsl address is: US Coast
Guard Station, P. O. Box 1000, Ocean City,
MD 21842-1000. Letter & photo of boat.
(Holbrook)

MD WTZ-3364 156.425 Sheraton, boat
position at Town Creek, Oxford, MD, card
qsl'ing with no signer. (Holbrook)

MD WBJ-7957 St Regis, sailboat at mouth
of Severn River. Card & photo of boat from
RMC John Benson USCG & radioman &
crew "Bullet" the wonder dog who lives
aboard! 25 watts. (Holbrook)

MD WBC-8951 156.80 & 156.626 Wind
Trails, sail boat at Frog Mortar Creek off
Middle River, card received (Holbrook)
MD WELF9 156.65 Doctor Lykes, bulk
container ship in Chesapeake Bay. Qsl
address is: Lykes Bros. Steamship Co. Inc.,
300 Poydras St., New Orleans, LA 70130. 25
watts (Holbrook)

MD KEOD 156.65 Nuevo San Juan,
container ship near Sharps Island light in
Chesapeake Bay. Qsl address is: Puerto Rico
Marine Management, P. O. Box 3170,
Edison, NJ 08818. (Holbrook)

MD JKIB 156.65 London Highway,
inbound car carrier, 25 watts. Qsl address is:
Kobe Kisen Kaisha Ltd, Lino Building, 1-1
2 chome, Uchisaiwai-cho, Chiyoda-ku,
Tokyo 100, Japan. (this is my 74th Japanese
ship qsl'ed here)! (Holbrook)

MD 8JPX 156.65 Century Highway,
a car carrier vessel at Sandy Point, MD, card
back from address of: Kawasaki Kisen K.K.,
(K Line), Hibiya Centra Bldg., 2-9, 1 chome,
Nishi-Shinbashi, Minato-ku, Tokyo 105,
Japan. /25 watts./ (Holbrook)

This month reporters are Hank Holbrook,
Bruce Elving. I got now lots of vhf-marine
fm radio qsls to use from Hank. With the
lack of items to use. I have been using
vhf-uhf utility band qsls. In answer to
Bruce's question, yes I still do the
column. But due to lack of qsl items, time
to do the column, computer problems at
times (new 486 DX4 is in the works), &
some what at times a lack of interest at
times to even to do this column. I have
been doing this for a few years now!
See you soon, 73's de KA3TCC

UHF DEVELOPMENT

HISTORY OF THE "ULTRA-HIGHS" - (Part Two)

Copyright 1994 by ROBERT B. Cooper, P.O. Box 330, Mangonui, Far North, New Zealand

Note: Part One of this two-part series appeared in a previous issue of *IUD*. We rejoin the story of UHF development at a point where the FCC is under increasing pressure to expand into the UHF spectrum.

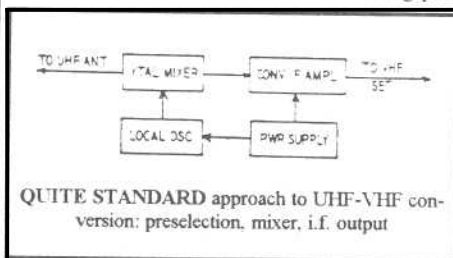
If high band transmitters and systems were inefficient in 1948, UHF was black magic. Every piece of the basic station had to be redesigned. Transmitter power tubes did not exist; transmitting antennas (the 'batwing' created by RCA) proved unacceptable at UHF. And VHF type transmission cables lost 50% of the transmitter power in the first 100 feet of line which left precious few watts at the antenna 400 feet (or more) above the transmitter.

RCA created an on-the-air laboratory at Bridgeport, Connecticut and station KC2XAK on what we now know as channel 23 became a proving ground signing on December 29, 1949. The station was fed first with off-air received and later 2 GHz relayed programming originating at WNBT in New York City. Although RCA couldn't have stopped them from doing so if it wished, it invited the industry 'to come to Connecticut' to help develop adequate consumer receiving systems and antennas using the signal of KC2XAK for development. A great deal was riding on KC2XAK; by 1950 the FCC was hopelessly immersed in the CBS color proposal, which CBS pushed at every opportunity. When in January 1950 CBS announced a 'break through' that allowed color to 'fit into 6 MHz', the FCC relaxed its color guard (5) and focused briefly on UHF. Solving the original co-channel interference problem, the FCC now decided, depended upon having more channels available. After a brief fling at wrestling VHF channels 14-19 back from the military, the FCC was slowly realizing UHF was mandatory. CBS's UHF test of color, now that CBS had it down to 6 MHz, were essentially dead. This placed the future of TV, indeed the end of the freeze, back in RCA's hands and KC2XAK.

The last of the original 107 VHF construction permit holders commenced commercial operation November 15, 1950; KRON on channel 4 in San Francisco. Some significant cities remained without any television; Denver and Portland come to mind. Others, such as St. Louis, had but a single channel (KSD, although smaller communities including Columbus had three). There

would be no new TV stations on the air until July 18, 1952 when Denver's KFEL would break the freeze with a 500 watt temporary transmitter. Commercial station 100, incidentally, was Iowa's WOI-TV which began operation February 21, 1950.

The FCC finally announced (the detail is mind blowing and far too complex to even highlight here) an end to the freeze in April of 1952. But the procedures had changed. New applicants for VHF would typically go to comparative hearings (i.e., two or more applicants per channel with the merits of each applicant subjected to FCC study). To encourage a jump-start to TV for the cities where TV had not arrived, UHF channels would be awarded according to the new allocations table based upon FI/FO (first in, first out). The first commercial UHF station in the world was channel 27 in Portland, Oregon; RCA dismantled their only functional UHF transmitter from Bridgeport,



QUITE STANDARD approach to UHF-VHF conversion: preselection, mixer, i.f. output

Connecticut, returned it to channel 27 and loaded on vans shipped it intact to Portland where it became KPTV on September 18, 1952. Of note, Portland's lack of TV was self-inflicted. KGW held a CP for channel 6 granted May 17, 1946 and modified to channel 4 in 1947. Alas, the station was never built and the permit lapsed during the freeze.

Between KPTV's sign on and January 1954 199 UHF applicants were awarded construction permits. With the FCC showing only cursory interest in the applicant's qualifications (the primary qualification was to ask for a CP), it should not surprise you that ultimately only 109 (55%) of these CPs ever went on the air. It is another story why of the 109 that got on the air, only 34 were still on the air in 1960. In the same period 102 VHF stations were approved and all 102 were constructed. Of the first 41 UHF CPs granted

when the freeze ended, 24 (59%) went out of business. UHF television history is not a pretty review and the FCC made many serious errors in 'creating' and 'regulating' this industry right through 1970. That it exists today is something of a wonder; a subject for another time.

THE UHF HARDWARE

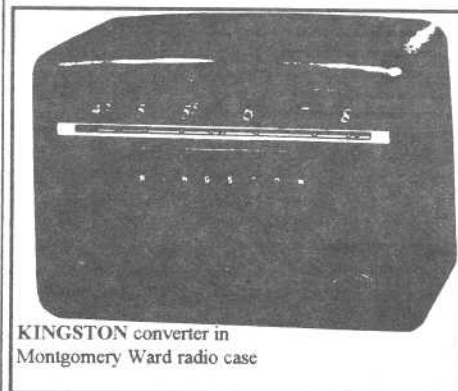
"Put it on the air and they will watch it" ... (with apologies to Field Of Dreams) was a myth. When KPTV signed on the air in Portland, the city had no television programming locally (although suburban Astoria had pioneered cable reception from Seattle). Portland was ready for TV even if it was UHF. But in Oklahoma City (with pre-freeze WKY on the air) or Lansing, Michigan (in the fringes for pre-freeze Detroit and Kalamazoo plus local WJIM-TV) UHF was another matter. Milton Berle and Ed Sullivan were on NBC and CBS. UHF stations found it very difficult to obtain network affiliation because the network people would in most cases rather wait another year for a VHF station to be granted than affiliate with a UHF with zero viewers.

Zero viewers? Consider this. Every TV set manufactured through 1953 had a VHF only tuner. To receive UHF the viewer had to invest in a set-top UHF converter, or have the TV tuner ripped apart to allow UHF 'strips' (single channel, not-user-tuneable, low efficiency 'UHF crystal sets') to be installed in place of unused VHF channel positions. In Oklahoma City, lacking meaningful network affiliation, early UHF KMPT on channel 19 provided little incentive for people to spend additional money to convert to UHF. Where VHF was in and running, UHF stood almost no chance for success. In fact, when Portland got VHF channels even UHF pioneer KPTV abandoned the ultra highs for a safe and secure VHF allocation.

VHF and UHF cities were called 'intermixed markets'; something many including Allen B. DuMont had urged the FCC to avoid. While the FCC gradually accepted there was an 'intermixture problem' (which haunted them well into the late 1960s), TV set makers saw little reason to increase the basic cost of TV sets by building in UHF tuners which would drive up receiver prices by as much as \$50. In 1955, more than 3 years after UHF began, fewer than 20% of the TV sets produced included UHF tuning. It took a FCC ruling (in 1970) to force set makers to include 'VHF-UHF comparable tuning' and this was pushed only after all other attempts to talk manufacturers into voluntarily adding UHF tuning in all sets had failed. In 1953 the technology for 'all-channel tuning' did exist; Standard Coil brought out an 82 channel detent style tuner claiming 34 dB of gain on all channels. The state of tuner art at the time was a noise figure of 7 dB on VHF low band, 9 dB on channels 7-13, and, (are you ready for this!!!) 19 dB at UHF. Yes, UHF reception for the viewer was certainly going to be a challenge.

Thus it fell upon non-TV-set makers to innovate ways for UHF to be inexpensive. If Aerco's 1948 UHF converter was the first, by 1953 there were many more

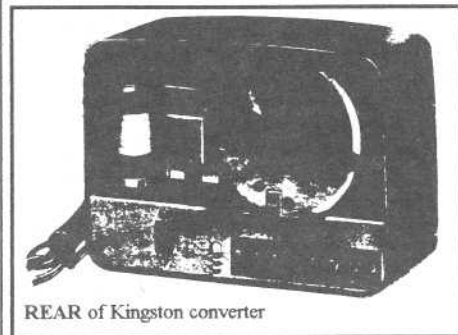
serious suppliers. The basic UHF converter was housed in a typically small box (often the same box used for VHF set top boosters) and had two inputs and an output. Input one was for the UHF antenna, input number two was for the VHF antenna and the output



KINGSTON converter in Montgomery Ward radio case

(typically on low band) went to the TV set. The user knob-selected UHF or VHF which connected the appropriate antenna. At VHF the converter typically passed the signal through (with minor VHF losses) although a few manufacturers (such as Astatic with their CB-1. Kentucky's Sutton Electric with their model 22B) included a VHF booster in the box as well. Input and outputs were 300 ohms and no, combination VHF-UHF antennas had not yet been developed.

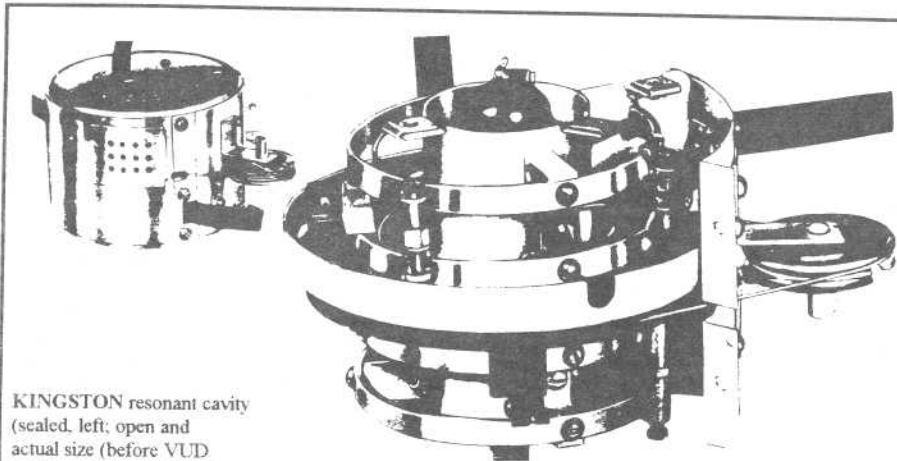
The UHF converter was initially an electrically simple, mechanical nightmare. As shown here, the circuit consisted of a broadbanded input with a UHF region fixed or tuneable bandpass filter (preselector) followed by a mixer stage. The incoming UHF signal was frequency translated to a VHF output channel by generating a UHF local oscillator signal (LO) typically in the 275-750 mc. range and injecting this oscillator



REAR of Kingston converter

signal into the mixer along with the incoming UHF TV signal(s). Should you be 30 years or less old, megacycle, abbreviated mc., was the predecessor to megahertz (MHz). The knob on the converter varied the frequency of the LO, which in turn produced varying mathematical combinations of incoming signal minus the LO to equal the chosen output (VHF IF)

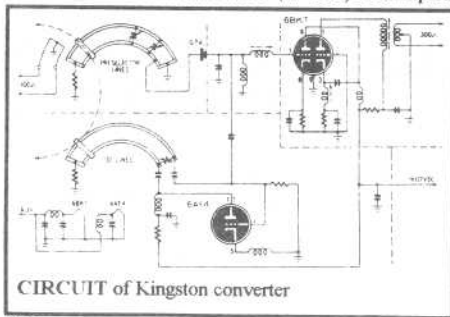
Member Robert B. (Bob) Cooper is now completing the third year of a five year project; a two-volume (970 page range) reference set presently titled *TELEVISION: The Technology That Changed Our Lives*. He is sharing with *IUD* readers material from his files, written with the TV DX enthusiast in mind. Cooper recently spent six weeks in the United States interviewing techno-octogenarians who lived and created this era, digging through records at the FCC, RCA, GE and others for the 1930-1960 period, and visiting collectors of antique television and FM equipment. Volume one of *T:TTTCOL* should be published late in 1995.



KINGSTON resonant cavity (scaled, left; open and actual size (before VUD printing reduction) right.)

In open cavity, 6AF4 oscillator tube is in center. Circular twin lines (top portion) were silver-plated brass 'rods' forming inductance portion of preselection circuit. Tuning had to be smooth, without backlash; a tough assignment given state-of-the-art in 1952.

channel. Some converters went from UHF to VHF with no amplification (Blonder Tongue '99er'); others (such as the Blonder Tongue BTU-2 series) added a stage of VHF (IF) gain after the mixer. No home style converter had an UHF RF (amplification) stage and sensitivity variation between units (of the same model, or, of differing manufacture) was common. Even within the channel 14 to 83 range there were wide variations in converter performance as some converters were 'hot' on the high end, others at the low end. Although no home style converters contained RF amplification at UHF, a few manufacturers ventured into the murky world of RF amplification with UHF set top boosters. The David Bogen brand had a UHF (model UHB) unit with a 6AN4 tube; Electrovoice had model 3400 using a pair of 6AJ4s. The June 1960 issue of *DXing Horizons* contained a single 6AN4 build-it-yourself design signal pre-amplifier that many DXers built in that slightly later era. In the January 1954 issue of *Radio Electronics*, TV DX column conductor Edward Tilton reported on the first UHF DX (UHF having begun in 1952). Loggings of 125 miles were considered 'unusual' and earned 'print space' while the record was channel 15 (WVEC) in Hampton,



CIRCUIT of Kingston converter

Virginia being received at New Bedford, Massachusetts. Not unexpectedly, this 450 mile path was very similar to the 'record high band' (7-13) paths recorded in the same magazine 3 and 4 years prior.

As RCA was preparing to dismantle experimental station KC2XAK and move the transmitter to Portland entrepreneurs were lining up to sell converters. In Portland, Fresno and Peoria every home would have to include UHF tuning capability (there initially being no VHF in those markets). Optimism was considerable that in larger markets as well a high percentage of the homes would opt for UHF. They were wrong: what seemed like a 15,000,000 unit market in 1952 was rapidly diminishing to a 1,000,000 market by 1955. The small size of the market never attracted the 'big boys' and although RCA and GE and other name-brand manufacturers did offer UHF set top units, they were little noticed and only half seriously marketed. Zenith persisted with the changeable tuner strip type conversions.

Mass distributed UHF set-top converters were unfortunately sold first on price, lastly on performance. Innovation that cost a few more dollars in manufacture translated to 20-40% pricing differentials at retail shops and although the performance differences could be dramatic, few consumers got this message. To most, there was the attitude they had 'already paid for their TV sets' and the 'addition of a UHF converter-thing' was an unwelcome intrusion into their pocketbooks. The FCC drew thousands of letters published in local newspapers in that era as people complained bitterly about UHF in general blaming the FCC (rightfully, it turned out) for their unhappiness.

While most of us recognize Blonder Tongue, General Electric, Jerrold and RCA (all manufactured UHF converters) fewer would know Astatic, Crosley, Granco, I.D.E.A./Regency, Kingston, P.R. Mallory,

Radio Receptor, Sutton Electric, Transvision, Turner, Vision Electric or Walsco. Each of these (and many more) manufactured UHF converters during the 50s.

The first, classic, quality UHF converter came from a small company in Kokomo, Indiana called Kingston Products. Finding one of these early units for my growing collection would make me a very happy camper (6). The converter (shown here) had a slide rule dial calibrated not in channel numbers but in megacycles; 4.5 (representing 450 mc.) on the left through 8 (800 mc.) on the right. Its dark brown metal case was impressive for its simplicity; three knobs (power on/off, VHF or UHF inputs, and slide-rule dial tuning). The designer was thoughtful enough to include a female two-pronged AC receptacle on the rear so the converter on-off knob could also control the TV set. That design choice would turn out to be a mistake as running the oscillator tube in the converter when the set was being used on VHF rather dramatically reduced the UHF local oscillator tube's already short life.

Continuous tune converters represented the superior technology. A newly developed UHF oscillator tube, the 6AF4 (later 6AF4A), fitted into a mechanical 'cavity' or housing of the Kingston. The inner dimensions of the cylindrical cavity (4" by 3") represented a resonant circuit which was 'tuned' with mechanically moved silver plated brass, curved, 'lines.' The input circuit was a preselector and two tuning

adjustments (set and hopefully forget at time of manufacture) established the tracking between the input preselector and the 6AF4 local oscillator. Kingston used channel 10 as a standard VHF (IF) output and a 6BK7A as an IF amplifier. Provision was made to vary the output channel between 8 and 12 by retuning the 6BK7A circuits. Like all UHF converters of the era, a quarter megacycle (or more) drift was apparent during the 5-10 minute warm-up (as the 6AF4 reached operating temperature with the heat it dissipated to the mechanically tuned cavity also retuning the cavity proper). Kingston's choice of channel 10 as an output showed thought. The 6AF4 oscillator tube was 'working' very hard as an oscillator in the UHF range. By moving the output (IF) up to high band, such as 200 mc., the oscillator only had to work between 270 and 670 mc. Converters that selected channel 4, for example, with a frequency of 66-72 Mc, had to make their oscillators work from 400 to 800 mc., a not insignificant difference for the already hard working 6AF4.

The silver-plated tuned lines and the quite elaborate resonant cavity housing for the 6AF4 local oscillator were not mass production cost friendly. Thus the Kingston was doomed in the marketplace from the outset because it was too good for what would turn out to be a low-ball market. Others such as Blonder Tongue cheapened the product dramatically during

(6) When I began this writing project, I determined there were 'just a few' of the precedent-setting TV devices between 1933 and 1960 I would collect; collecting is (a) an expensive undertaking, (b) a fulltime - sparetime hobby, and (c) almost impossible to do successfully when you live in New Zealand and all of the items you want to collect are rotting in hay lofts in Ogallala, Nebraska or Abany, New York.

The Kingston Products UHF converter was one of these items. I've never found one and here's why. In Kokomo, Indiana Kingston Products had been building radios for Montgomery Ward since the 40s. They had a modest lab and when UHF was a certainty, went to work designing a converter. Using recently released MIT data chief engineer Harold Reith designed a full cavity tuner (see illustration here); the 'pure' and best engineering approach to the UHF to VHF problem. At the time (March 1952) radio station WELI in New Haven (Ct) was volunteering its engineering staff, led by Fred King, to test and evaluate proto-type UHF converters from any manufacturer who wanted field testing performed. WELI was within 25 miles of RCA's KC2XAK and this was a fine testing point for early UHF. Reith's development crew took 15 'old metal cases' originally designed by Kingston for Montgomery Ward 4 tube radios and had their shop modify them for the UHF converters. Five of the cases were filled with the cavity converter innards you see in the illustrations here; one going to WELI for test and subsequent write-up in the October 1952 issue of *Radio Electronics*. Reith also delivered a 'paper' to a New York convention or the IRE (Institute of Radio Engineers) on March 5, 1952 describing the design.

Price competition in the UHF converter marketplace was intense by July 1952 although the first commercial UHF station would not sign on until September 18. Kingston agreed to manufacture their converter 'innards' for the Regency Division of I.D.E.A., a fellow Hoosier firm. 50,000 of the Kingston 'guts' ended up inside of 50,000 Regency cases (the RC-600 model); the original order for 100,000 Kingston units was terminated half-way through, because as former Kingston design engineer James Fred told me "By the time the tooling for the cabinet was finished and the tuner put on the market it was obsolete." Well, maybe not technically obsolete; just financially obsolete. The RC-600 was simply too good for the cut-throat, cheapen the product without regard to performance, 'real market.'

The original model illustrated? Only prototypes were built, no more than 15, probably more like 8 were actually completed. Fred recalls "I was able to get the remaining cabinets and enough parts to make three or four complete converters. Fort Wayne, Indiana had recently put their first UHF station on the air and I sold the converters to a friend there that owned an interest in a Western Auto Supply store. I still see that friend and have tried to find those converters, but never have." Kingston closed their 'radio department' in May 1954.

Someplace in a hayloft in or about Fort Wayne there may be one of these rare jewels covered with dust and grime. I'd sure like to have it. I'll even settle for an Regency RC-600 because I know what's under the hood!

1953 and 54 leaving Kingston and others with a 'quality approach' to succumb to the marketplace.

For the balance of the 1950s the 6AF4(A) local oscillator tube would prove to be an Achilles heel to UHF reception. Even the Kingston was basically nothing more than a 'crystal set' with some modest frequency pre-selection and an IF after burner gain stage. 6AF4 tubes proved first to be short-lived (the A version improved this somewhat) and variable in performance. It was not uncommon for a service technician to pre-grade his stock of 6AF4s marking the respective boxes with apparent tube performance. The 'hot ones' were saved for customers that got really fringe area quality signals. The efficiency (or lack thereof) of the U to V conversion depended upon the amount of local oscillator 'injection' from the 6AF4 to the crystal mixer. Crystal mixers were also variable in sensitivity (i.e., conversion efficiency) and diagnosing UHF converter problems became a nightmare; was the crystal mixer poor, the 6AF4 injection too low (or too high as this could also be a problem)?

A few set manufacturers wanted to avoid the Zenith tuner strip change out routine (typically the lowest performing option, although it was most customer friendly since the viewer merely click-stopped the TV tuner to the channel number where the UHF strip had been substituted for an unused VHF channel), and, wished to capture some part of the modest marketplace dollars being reaped by the outboard converter people. RCA, G-E and Philco offered two or three channel fixed-tuned converters that typically mounted on the back, or side of the TV set. Rather than continuous tune, these converters had a couple of push buttons which activated the lumped constant (pre-tuned by installer or factory) circuits that tuned in the selected UHF channel. This was the same 'tuner' ploy used in the pre-1948 VHF sets prior to the introduction of the VHF turret tuner. Basically, it was a way for these manufacturers to compete with Zenith by offering the equivalent of strip-change-out without actually having to 'destroy' the VHF tuner in the process. Such adapters (as opposed to converters) typically borrowed their modest operating power requirements from the TV set itself so installation was a service person, not consumer task.

The UHF set top converter was a potential 'do-it-yourself' Joe-Handyman exercise. The consumer could purchase a converter. UHF aerial and some lead-in and spend a half day installing it him or herself. This sounds pretty basic today but you must realize that everything about television was still 'black magic' in the 50s and neither the instructions nor the hardware existed for the consumer to accomplish this goal without numerous opportunities to screw it up.

As bad as antennas may have been, as inefficient as UHF conversion gadgets were, the real stinker was the lead-in wire connecting the antenna to the receiver. By 1953 the TV industry had pretty much standardized on 300 ohm flat or ribbon line. Tubular 300 ohm line, with an air core or foam core, was not widely available. For really long runs there was 300 and 450 ohm 'open

wire line,' twin copper wires appropriately spaced apart by fixed plastic spacers every 4-8 inches and nothing but air in between the wires. Stock twin lead was a disaster at UHF. When dry it had acceptable losses in the region of 4 dB per 100 feet at 600 MHz. Wet, the losses skyrocketed to 23 dB! And that was best case. To route the twin lead from the antenna (which over the 470-890 mc. range exhibited impedances that strayed far from 300 ohms making antenna system performance unpredictable) to the TV set/converter was a major challenge. At one or more points between the antenna and the converter the twin lead was almost certain to pass over, along side of, or through something metal. Routing down the metal antenna mast involved using 3" or 5" long 'stand off insulators' but it was beyond the average consumer to understand why coiling the flat twinlead around the mast (in lieu of spending money for and battling with the temperamental stand offs), or sliding it through a metal window casing, was a bad idea. Even using insulators was no guarantee that the line would stay away from metal and the totally (electrically) unshielded twin lead was quickly sucked dry of its meagre UHF signal energy with even a casual passby of something metallic.

All of these factors added to UHF's failure. It was difficult to receive and when it rained (soaking the line) marginal reception would disappear totally in a blizzard of snow. Even if you had all of this sorted out, the 6AF4 was guaranteed to go sour periodically leaving you with a gradually declining quality of reception that became worse and worse until the 6AF4 quit altogether. Worse than all of this, unless you lived in what the FCC called 'A UHF Island' (where no VHF signals were available), the programming on UHF was so poor that even people who spent money to receive UHF often quit watching after a week's trial.

It was no surprise that UHF stations going on the air with great hope and promise starting in the spring of 1953 were by the fall of 1953 going off the air. In fact, by 1956 more UHF stations left the air during the year than signed on new. UHF, with isolated Fresno and Peoria examples (where the public had no choice but to put up with the UHF reception problems or not watch television), became first a joke within the industry, then a joke with the public at large. The author remembers

-DO YOU WANT MORE?-

If you are in favor (spelled favour in New Zealand) of additional VUD-customized-excerpts from TELEVISION: The Technology That Changed Our Lives please take a few minutes to drop Bob Cooper a note. From the following topics (actually sub-sections within T:TTICOL) select one or two you would like to see in future VUDs to help Bob determine which topics to feature here.

#1/ The very first TV DX (1937 London to New York with off-screen photos); #2/ The intriguing story of the CBS color wheel; #3/ The first TV antennas; #4/ The early TV boosters.

watching a KGO (channel 7, San Francisco) newscast on the day that Fresno's first UHF station (KMJ, channel 24) went on the air. The reporter, later to become a popular columnist for *The San Francisco Chronicle* (Art Hoppe), announced with tongue in cheek that Fresno had its first TV station. Then he tried to explain the station was 'UHF' and soon became lost in his own mis-understanding of how it differed from VHF. The message he was trying to convey, perhaps with a bit of ridicule attached, was that UHF stations were somehow inferior to VHF stations and reception was limited to what he described as 'very short distances.' He ended by suggesting that if you "really wanted to watch KMJ-TV," first you should "buy a bus ticket to Fresno and then take a cab to their transmitting tower."

A television station in Connecticut went on the air on UHF in 1954. Twelve months later the station, unable to acquire network affiliation and faced with running one or two (very) old public domain movies in the evenings as its only programming fare, pondered just how bad things really were. During a break in its 8PM movie (a break where commercials would go if they had sold any; they had not), the station offered \$100 to the first viewer to call in. Nobody called. At the next break the only employee, cum station manager, upped the ante to \$200; the phone still did not ring. At the end of the movie the station manager did a voice over with the call slide and made the supreme offer: \$500 to anyone, just for calling the station. The phone never rang. The next day the station closed down and the license was relinquished to the FCC.

Such were the challenges facing America's first-decade pioneer UHF telecasters.

ERRATA-

As I begin the final year of serious research into the development of "television - the technology" preparatory to stitching together the hundreds of related but separate topics that make up this story, I find myself in need of 'foot soldiers' within the USA to run down some of the missing details. Over the course of researching this topic several hundred people have assisted and all will be properly recognized in the print versions of the two-volume set.

Still, there remains leg-work to be done and as noted a seven week jaunt spanning Los Angeles to Boston has recently been completed allowing me to dig through long forgotten files, talk with archival curators and spend hours interviewing octogenarians who made all of this happen.

Perhaps you would like to or could help? Early public library archives (such as Milwaukee where WTMJ experiments preceded many other pioneers) are a wonderful resource but require personal visits to properly examine. I can provide the guidance and direction from New Zealand; trotting down to a library in Milwaukee. Los Angeles or Philadelphia is another matter. Anyone with a passion for history is welcome to contact me directly. *Be warned:* I will pay copying expenses but have no budget for research time.

-SOME INTERESTING EARLY UHF FACTS-

* Of the first 41 UHF stations to go on the air, only 17 (41%) remained viable in 1975.

Of those 17, 11 (65%) were later required by the FCC to change their UHF operating channel. Thus 6 of the original 41 still operate today on their original channel.

Why was this of interest? Because a high percentage of early UHF-equipped receivers were strip-conversions or adapter converted. In Springfield, Ma., for example, WWLP was originally on channel 61. To its benefit it would later move to channel 22, but in the process more than 40,000 homes had to have their TV set conversions re-converted at their own expense.

* Once UHF was underway, the FCC began wholesale approvals of new (increased) tower heights and transmitting power for VHF stations. In Atlantic City, NJ, UHF WFPG lost 33 half-hour network programs after Philadelphia VHF stations were allowed to increase their coverage into the southern New Jersey community.

Without network programming to compete, WFPG went off the air. Similarly, two early UHF stations serving Spartanburg, SC had network affiliations and a profitable business until the FCC allowed WSPA to move its channel 7 transmitter to a 3,500 foot mountain and increase power. Shortly after, the two pioneering UHF's lost their network programming and had to leave the air.

* The range of UHF stations that pioneered the new band and then 'went dark' (before January 01, 1955) because of a lack of network affiliation and/or the availability of VHF signals in their areas included:

KITO/18/San Bernadino, Ca.; WTAC/16/Flint, Mi.; KACY/14/Festus-St. Louis, Mo.; WKLO /21/Louisville, Ky.; WACH/33/Newport News, Va.; WKAB/48/Mobile, AL; WCCO/30/Meridian, Ms.; KSTM/36/St. Louis, Mo.; WCHA/46/ Chambersburg, Pa.; KBID/53/Fresno, Ca.; WRAY/52/Princeton, In.; KFAZ/43/Monroe, La.; WBKZ/64/Battle Creek, Mi.; WFTV/38/Duluth, Mn.; WBES/59/ Buffalo, NY; KNUZ/39/Houston, Tx.; WTOV/27/Norfolk, Va.; WKJF/53/Pittsburgh, Pa.; WECT/18/Elmira, NY; WLBR/15/Lebanon, Pa.; KCEB/23/Tulsa, Ok.; WNMA/42/Neenah, Wi.; WPFA/15/Pensacola, FL; WTVE/24/Elmira, NY; WTRI/35/New York, NY; KMPT/19/Oklahoma City, Ok.; WBTM/24/Danville, Va.; WKNA/46/Charleston, WV.; WCAN/25/Milwaukee, Wi.

During 1955 and early 1956, new UHF 'drop-outs' included:

KTVU/36/St. Louis, Mo.; WTVI/54/Belleville. Il.; KGTV/17/Des Moines, Ia; WLAM/17/Lewiston, Me.; WRTV/58/Asbury Park, NJ; WFMZ/67/Allentown, Pa.; WQXI/36/Atlanta, Ga.; WNEK/47/Macon, Ga.; WEEU/33/Reading, Pa.; WNET/16/ Providence, RI.

And the list went on ...and on through the 1960s.

VHF-UHF UTILITY DX

WEATHER - AIR - MARINE - PSB

BILL HEPBURN - 35 LOCKWOOD RD - BRAMPTON ON - L6Y 4T7



WEATHER RADIO

NEW STATIONS

?? ? WX ? ? ? ON ORILLIA - to relay XMJ-316 162.475 Collingwood
 ?? ? WX ? ? ? ON FORT FRANCES - freq 162.40 or 162.475

AERO WEATHER

NEW STATIONS

112.2	TWEB	PDZ	CA	PARADISE - VOR adds Riverside TWEB.
113.8	ATIS	YQG	ON	WINDSOR
118.175	AWOS	KZN9	GA	CARROLLTON
118.325	AWOS	.....	NY	POTSDAM
119.275	AWOS	.....	MN	DULUTH-SKY HARBOR
119.275	AWOS	.....	MO	FARMINGTON
119.275	AWOS	AAA8	NY	SCHENECTADY
122.55	AWOS	.....	NF	CHURCHILL FALLS
122.55	AWOS	.....	NF	MARY'S HARBOUR
122.8	SAWRS	KUO8	PA	STATE COLLEGE - 1030-0430 Z.
124.4	ATIS	VFP4	AB	RED DEER
125.1	ATIS	.....	ON	KITCHENER-WATERLOO
125.7	ATIS	VFK	PQ	SCHEFFERVILLE - EE Language.
126.1	ATIS	VFK	PQ	SCHEFFERVILLE - FF Language.
126.6	ATIS	VFT6	ON	TIMMINS
128.7	AWOS	.....	ON	BIG TROUT LAKE
128.8	ATIS	.....	TX	SAN ANTONIO-STINSON
132.725	AWOS	.....	MS	OXFORD
133.1	AWOS	.....	LA	NEW ORLEANS-DOWNTOWN
133.5	ATIS	.....	AZ	PHOENIX-WILLIE
273.5	ATIS	.....	NC	GOLDSBORO-SEYMOUR JOHNSON

FREQUENCY CHANGES

112.15	ATIS	YYZ	ON	TORONTO - ex-113.3
115.6	HIWAS	PVD	RI	PROVIDENCE - HIWAS, ex-135.925.
123.75	ATIS	.....	OH	YOUNGSTOWN-WARREN - ex-119.75.
127.4	ATIS	.....	ON	SUDBURY - ex-124.4
133.05	ATIS	VFJ7	ON	SAULT STE MARIE - ex-124.95

STATUS CHANGES

112.7	HIWAS	CAP	IL	SPRINGFIELD - HIWAS out of service.
116.3	HIWAS	ISN	ND	WILLISTON - HIWAS out of service.
117.4	HIWAS	STL	MO	ST LOUIS - HIWAS out of service.
117.9	HIWAS	EMI	MD	WESTMINSTER - VOR Leesburg HIWAS back on air.
118.05	AWOS	KZL4	PA	ST MARY'S - off the air.
124.3	ATIS	.....	AZ	GRAND CANYON - to become part-time ASOS.
124.65	AWOS	WNU2	CA	COLUMBIA - back on air.
127.65	AWOS	WRP8	PA	STATE COLLEGE - now 0430-1030 Z only.
127.875	AWOS	KWF6	ND	WHPETON - off the air.
134.625	AWOS	.....	CA	PORTERVILLE - back on air.

135.075 AWOS CO TRINIDAD - back on air.

DELETIONS

108.4	.....	DPA	IL	CHICAGO-W CHICAGO - TWEB decommissioned.
114.4	.....	GFS	CA	GOFFS - TWEB decommissioned.
114.7	.....	AQH	AK	QUINHAGAK - VOR TWEB decommissioned.
115.4	.....	END	OK	ENID - VOR ATIS decommissioned.

MARINE WEATHER

NEW STATIONS

161.85	MRN	KLC	TX	GALVESTON - Wx 1015, 1515, 1915, 2215 & 0215 Z
161.925	MRN	KLC	TX	GALVESTON - Wx 1015, 1515, 1915, 2215 & 0215 Z
161.95	MRN	KLC	TX	GALVESTON - Wx 1015, 1515, 1915, 2215 & 0215 Z
161.975	MRN	KLC	TX	GALVESTON - Wx 1015, 1515, 1915, 2215 & 0215 Z

AVIATION WEATHER BROADCAST ABBREVIATIONS

ALL BROADCASTS ARE CONTINUOUS.

ASOS = AUTOMATED SURFACE OBSERVING SYSTEM.
 COMPUTERIZED 'WEATHER ROBOT'. (Latest Version)

ATIS = AUTOMATIC TERMINAL INFORMATION SERVICE.
 LOCAL WEATHER & AIRPORT INFO BCST BY TOWER.

AWOS = AUTOMATED WEATHER OBSERVING SYSTEM.
 COMPUTERIZED 'WEATHER ROBOT'. (Standard Version)

HIWAS = HAZARDOUS INFLIGHT WEATHER ADVISORY SERVICE.
 ENROUTE WX ADVISORIES BCST BY FSS RADIO ON VORs.

SAWRS = SUPPLEMENTAL AVIATION WEATHER REPORTING STATION.
 PRIVATE LOCAL WEATHER INFO BCST BY UNICOM.

TWEB = TRANSCRIBED WEATHER BROADCAST.
 ENROUTE FORECAST & ACTUAL WX BCST BY FSS RADIO ON VORs.

HIWAS & TWEB BROADCASTS ARE ON VORs IN THE 108-118 MHz BAND ONLY
 (EXCEPTION- VFW5 WINNIPEG MB ON 122.4 MHz).

ASOS, ATIS, AWOS & SAWRS BROADCASTS ARE USUALLY ON DISCRETE
 FREQUENCIES IN THE 118-137 MHz BAND ... BUT SOME ARE CARRIED ON
 VORs IN THE 108-118 MHz BAND. MILITARY BROADCASTS ARE ALSO FOUND IN
 THE 138-144 MHz AND THE 225-400 MHz BANDS.

LOGGINGS...

HANK HOLBROOK - 407 ARUNDEL RD - FAIR HAVEN CLIFFS - DUNKIRK MD - 20754

Recv: Sony AIR-8 Ant: ANT-8 whip

= = Initial CQ on 156.8

JUNE 1994 (EDT)

01 TR 0904	WHW-819	156.7	DE LEWES	74 MRN NAV Del. Pilot	
05 TR 0841	WHU-710	156.8	NJ BRICK	156 MRN Sea Tow Cntrl NJ	
	0909	NMK-?	157.1 #	NJ FORTESCUE	87 USCG
	0928	NMK-2	157.1	PA PHILADELPHIA	111 USCG
10 TR 0455	NMK	156.8	NJ CAPE MAY	86 USCG	
	0845	LANN-4	156.8	DE nr LEWES	80 SHIP Helene Knutsen
	0915	KLHC	156.7	DE nr BUOY 9	75 SHIP Tropic Sun
15 TR 0217	WYR-3645	156.65	DE nr SHIP JOHN SHOAL	75 SHIP Northern Sun	
	0819	WDT-543	156.4 #	MD OCEAN CITY	82 MRN OcnCy Fishing Ctr
19 TR 0816	ELFI	156.7	DE nr DELAWARE BUOY	80 SHIP Chevron Star	

WILLIAM R. HEPBURN - 35 LOCKWOOD RD - BRAMPTON ON - L6Y 4T1

Recv: Realistic PRO-2004 & Icom IC-R100 Ant: Attic verticle dipole

JULY 1994 (EDT)

19 ES 2004	<u>PWE</u>	<u>112.4</u>	NE PAWNEE CITY	876	VOR-Columbus HIWAS
20 TR 0042	???	142.77	ON INGERSOLL	T	POL. "IG" CW ID
0450	<u>VQC</u>	<u>113.5</u>	ON STIRLING	113	VOR
0520	<u>VIE</u>	<u>115.1</u>	ON COEHILL	116	VOR

AUGUST 1994

24 GW ----	<u>YYZ</u>	<u>112.15</u>	ON TORONTO	6	VOR-ATIS. ex-113.3
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OCTOBER 1994

17 TR 2057	<u>DKK</u>	<u>116.2</u>	NY DUNKIRK	85	VOR "Dunkirk VOR"
26 GW ----	???	<u>125.1</u>	ON KITCHENER-WTRLO	34	ATIS

73s...

All Ohio Scanner Club

DAVE MARSHALL N8OAY
50 VILLA ROAD
SPRINGFIELD, OHIO 45503-1036

The AOSC is expanding its area of coverage, effective January 1, 1995, to include the Northeastern United States. Columns covering Connecticut, Delaware, District of Columbia, Maine, Maryland, Massachusetts, New Hampshire, New Jersey, New York, Rhode Island, Vermont and Virginia will be added to the existing coverage of Ohio and Illinois, Indiana, Kentucky, Michigan, Pennsylvania and West Virginia. The new columns and editors will be introduced in our January/February 1995 issue, and the columns will start in our March/April 1995 issue.

The "American Scannergram", the AOSC's newsletter, averages 44 to 48 pages a month, and will be expanded several pages to accommodate the new columns. In addition to regional columns covering public safety, business, power and water utilities, there are special interest columns covering aviation, federal government, military, railroads, sports and entertainment, shortwave utilities, state government, how-to articles for both the beginner and experienced hobbyists, and more.

Membership dues for the All Ohio Scanner Club are \$18.00 for members in the United States, \$21.00 for Canadian memberships and \$28.00 for all other countries. For a membership application, send an SASE to the All Ohio Scanner Club at 50 Villa Road, Springfield, Ohio 45503-1036, or send e-mail to davem0911@aol.com from any online service or computer bulletin board that has access to the Internet. A sample copy of a recent issue of the "American Scannergram" is available for \$3.00

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BALUN AND LOW-NOISE AMPLIFIER COMPONENTS

The UA-series balun and amplifier components for broadcast television reception is highlighted by the popular UA-900 UHF low-noise amplifier. With our exclusive low-loss balun and GaAs FET circuitry, it provides an unmatched combination of high sensitivity to bring in weak signals AND resistance to overload by strong local stations. We also offer a super-low-noise, high gain version of this amp for the most demanding "deep fringe" reception areas where signals are very weak and overload is not a consideration. The UA-900A

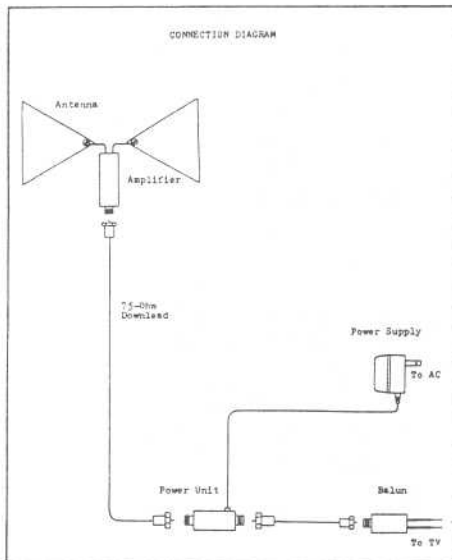
Features...

- Low-noise GaAs FET circuitry
- High overload resistance
- Unconditional stability
- Integrated low-loss balun
- Direct connection to antenna
- Rugged and weatherproof
- Easy to use and install
- DC power via 75-ohm coax
- Lightning protection
- UL listed power supply

provides 0.5 dB NF and 30 dB gain to recover these signals and overcome the high loss of long transmission line runs between the antenna and receiver.

All our VHF and UHF amps feature an integrated design housed in a small, encapsulated package that is rugged and totally weatherproof. It allows direct connection to the 300-ohm antenna terminals so that lossy jumpers and complicated mounting hardware are eliminated making installation quick and easy. The amps come complete with UL listed, plug-in AC power supply and in-line power unit. The power unit supplies clean, stable low-voltage DC power to the amplifier via the coax download. All amps are available with either 300-ohm or 75-ohm input.

The same precision, low-loss baluns employed in our high-performance amplifiers are available for system upgrades where it is desired to eliminate the excessive loss - 2 dB at UHF - of conventional, low-cost matching transformers. The wideband UA-60 and the UA-75 for UHF are both made to provide years of reliable outdoor service without performance degradation.



SPECIFICATIONS

Frequency	VHF	54-88, 174-216 MHz
	FM	88-108 MHz
	UHF	470-806 MHz
Output Impedance		75 ohms
VSWR		1.3
Operating Temp		-40 to +140 °F
Humidity		100% RH

Input	300-ohm	#18 AWG leads
	75-ohm	Type F female
Output		Type F female
Size	300-ohm	2-1/4"L x 3/4"Dia
	75-ohm	1-1/2"L x 3/4"Dia
Weight	300-ohm	1.2 oz. (34g)
	75-ohm	0.9 oz. (26g)

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Design and specifications subject to change without notice
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RDX Labs

COMPONENT PRICE LIST

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TV - FM

UA-75	Low-Loss UHF Balun 0.1 dB loss, 1.2 VSWR	\$29.95	2/\$49.95 5/\$99.95
UA-60	Low-Loss VHF-UHF Balun 0.3 dB loss, 1.2 VSWR	\$29.95	2/\$49.95 5/\$99.95
UA-900	UHF Low-Noise Amplifier 20 dB gain, 1.0 dB NF 150mV/300ohms max input	\$99.95	
UA-900A	UHF Super-Low-Noise Amplifier 30 dB gain, 0.5 dB NF 40mV/300ohms max input	\$129.95	
UA-700	VHF Low-Noise Amplifier opt. A, Ch 2-13 and FM opt. B, Ch 2-13, FM trapped opt. C, Ch 7-13 Ch 2-6: 13 dB gain, 1.9 dB NF Ch 7-13: 18 dB gain, 1.2 dB NF 250mV/300ohms max input	\$99.95	
UA-600	Broadband Low-Noise Amplifier opt. A, VHF-UHF-FM opt. B, VHF-UHF, FM trapped VHF: 13 dB gain, 1.9 dB NF UHF: 18 dB gain, 1.3 dB NF 250mV/300ohms max input	\$99.95	
UA-500	FM Low-Noise Amplifier 13 dB gain, 1.5 dB NF 450mV/300ohms max input	\$99.95	

Scanner/Communications

These amps feature nominal 18 dB gain, 1.0 dB NF and F connectors in and out. They cover the full VHF-UHF spectrum and include models for specific UHF bands. UA-20 25-1300MHz, UA-21 25-1300MHz w/FM trap, UA-22 450-960MHz, UA-23 806-960MHz. \$99.95

Satellite

This low-noise line amp connects ahead of signal splitter to overcome transmission line/splitter loss and restore original signal quality to each receiver in the system. Model UA-30 covers 950-1450MHz, 15 dB gain and 1.0 dB NF. \$99.95

TERMS: Amplifier prices are for 75-ohm input; add \$10.00 for 300-ohm input with built-in, low-loss balun. Add \$5.00 S/H per order. Kansas residents include 5.9% sales tax. Only prepaid orders accepted. Allow two weeks for delivery.

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