

Vhf-Uhf DIGEST

The Official Publication of the Worldwide TV-FM DX Association

OCTOBER 2004

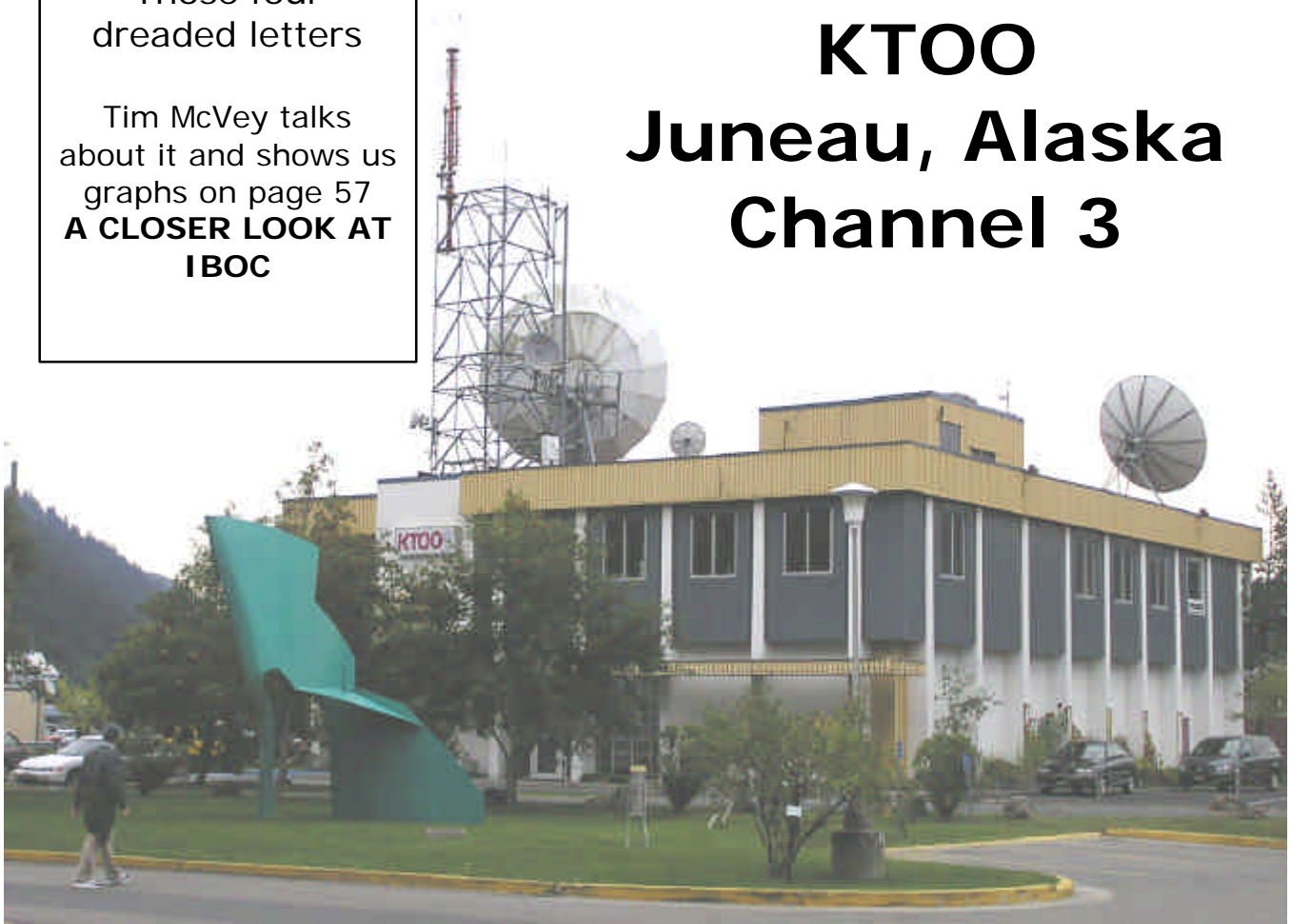
The Magazine for TV and FM DXers

IBOC

Those four
dreaded letters

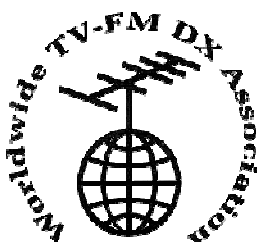
Tim McVey talks
about it and shows us
graphs on page 57
**A CLOSER LOOK AT
IBOC**

KTOO Juneau, Alaska Channel 3



IN THIS ISSUE

WEATHER DX WIDENS ITS SCOPE
MADISON GTG PHOTOS
PART ONE OF BOB COOPER'S COLOR TV
HISTORY



TV and FM DXing was *never* so much fun!

THE WORLDWIDE TV-FM DX ASSOCIATION

Serving the UHF-VHF Enthusiast

THE VHF-UHF DIGEST IS THE OFFICIAL PUBLICATION OF THE WORLDWIDE TV-FM DX ASSOCIATION DEDICATED TO THE OBSERVATION AND STUDY OF THE PROPAGATION OF LONG DISTANCE TELEVISION AND FM BROADCASTING SIGNALS AT VHF AND UHF. WTFDA IS GOVERNED BY A BOARD OF DIRECTORS: DOUG SMITH, GREG CONIGLIO, BRUCE HALL, DAVE JANOWIAK AND MIKE BUGAJ.



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Adam Rivers and John Zondlo,

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OCTOBER 2004



Finally! For those of you online with an email address, we now offer a quick, convenient and secure way to join or renew your membership in the WTFDA from our page at:

<http://fmdx.usclargo.com/join.html>

Dues are \$25 if paid to our Paypal account. But of course you can always renew by check or money order for the usual price of just \$24. Either way, it's still a bargain!

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We have another big issue for you this month. Bill Dvorak has given us post-GTG info on the annual Madison-Milwaukee gathering where many WTFDA members were in attendance. Weather DX has been revamped to include more than just weather radio loggings. Bob Cooper begins a series on the history of color television and Tim McVey digs into FM IBOC to show us what's going on inside those carriers.

We hope you find this issue interesting! -Mike

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The Mailbox

P.O. Box 501, Somersville, CT USA 06072
MIKE BUGAJ MBUGAJ@SNET.NET

OCTOBER 2004

Time marches on, here we are and it's fall again. This issue is being prepared earlier than I would usually like. You can blame my employer for that. I've had to set an earlier than usual deadline because of schooling requirements at the end of September. We should be back to the usual deadlines in October.

Now that DX is beginning to slow down a little we will be able to find space for some neat articles. Bob Cooper has supplied me with some interesting stuff and we'll dig into it over the winter months.

As far as DX goes, E skip is definitely out of the picture for October in most places but somebody should be seeing or hearing some tropo this month and possibly some decent meteor scatter around the 20th of the month.

MEMBERS AND MORE

We have two new members this month. The first is **Kyle Walker** of Crest Hill, IL. I asked Kyle how he found us and this is what he said: "I've been to your site several times. After cleaning up, galvanizing then installing a 30 year old parabolic UHF given to me last weekend, I thought I'd join! Uscountryradio.com was an internet radio station I had for about four years. After my agreement with an internet provider ended a few months back, I shut it down not wanting to pay hundreds per month for streaming. I'm the chief engineer for Weigel Broadcasting in Chicago. Weigel is a small, family owned group. Our main station is WCIU-26 in Chicago. We also have a LPTV WFBT-23 in Chicago both broadcasting on the Sears tower, stations in South Bend, IN (25, 57, 69) and Milwaukee, WI (41,58,63).

I've loved TV since I was a child and DXing and big antennas has been a new hobby of mine since moving to my first home that I could get away installing a tower. I have a 42' Rohn 25 with 8' of pipe on top hosting the new (to me) 4' parabolic UHF and a Winegard VHF antenna. I don't know a lot about the ins and outs of DX yet, hope to understand more with your monthly newsletter."

Thanks Kyle! We do have a good share

of people working in the radio and television industry and it's great to have one more, especially from Chicagoland.

Our next new member has probably only one WTFDA member living at a more northerly location than he does. **Michael Stonebridge** lives in St. Isidore, AB. St. Isidore is located just a few miles east of Peace River. Mike first asked for a sample VUD, then tried and decided on the eVUD instead, which is much faster than surface mail and won't get lost.

I did an Industry Canada search on St. Isidore and came up with this: 162 total population, 64 dwellings, Slave Lake is the principal Community

If you get the time, why not shoot an email to Mike at stonbrdg@telusplanet.net and say hi. He could use all the dx support from us he can get. Maybe someone in the club is familiar with e-skip and aurora dx at northern latitudes (Bill H?)

Renewals came in this month from **James Paige**(MI), **Melvin Dishong**(GA), **Steve Sprachman**(NY), **Bob Smolarek**(NJ), **Charles Tumosa**(MD), **Kermit Reid**(GA), **William Hein**(VT, by Paypal), **George Greene** (OH), **Joe Fela**(NJ) and myself. No freebies here, folks.

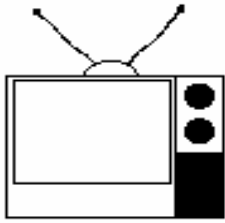
Here's an update from **Bill Dvorak** on his recent antenna problems. "I see by the Sept issue you gave me some press about my antenna problem. We took the antenna down about 4 weeks ago and found the problem was not the balun. It turned out to be a cruddy connection (.5meg of resistance across the center pin and the shield) where we went from RG59 to RG11 near the top. Water got into the connector and it looked like the bottom of a tea kettle that boiled water about 10,000 times. Somehow, water got by the coax seal. We replaced the antenna with a CM4248 yagi at 45 feet. The CM1160 will be going back up, but at a lower height."

Yep, water will do it. Let this be a lesson to all of us!



And that does it for this month. Let's hope that some decent tropo shows up *somewhere!*

See you all next month! -Mike



TV News

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 Pleasant View, TN
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<http://www.w9wi.com>

October 2004

Abbreviations:

AF	Applied For (a new station)	PC	Power (and/or tower height) change on the air
Aux	Auxiliary (backup) transmitter	PG	Power change granted
CC	Callsign change	PR	Power change requested
CL	City-of-license change	QC	Channel (?frequency??) change on the air
DE	License/permit deleted	QG	Channel change granted
FC	Programming (?format??) change	QR	Channel change requested
FTP	Failure to Prosecute	RE	Reinstated (previously-dismissed app.)
GA	Granted amendment (to table of channel allotments)	ROA	Request of Applicant
LC	License to Cover	SI	Off the air (?silent??)
MX	Mutually Exclusive	STA	Special Temporary Authority
NS	Permit granted for new station	XC	Transmitter site changed
NW	New station on the air	XG	Transmitter site change granted
PA	Proposed Amendment	XR	Transmitter site change requested

News:

(full-power analog stations in **bold face**; LPTV and translators in regular type; full-power digital stations in **bold italics**)



Canada:

British Columbia:

Sechelt 18 CBUT-35 QR from ch. 19



Puerto Rico:

Mayaguez 16 WOST CC for NS



U.S. Virgin Islands:

Charlotte 44 WTJX-DT NW 50kw/458m

Amalie

Alabama:

Birmingham 27 WBUN-CA FC; sold to Daystar

Dothan 21 WDHN-DT PR>1000kw/223;

PG

Huntsville 32 WAAY-DT PG>538m

Tuscaloosa 5 WCFT-DT NW 9.5kw/625m

Tuskegee 22 WBMM FC, drops Pax

Alaska:

Juneau 17 K17HC NS 12kw, 58-18-03/134-25-27 (KYES-5)

Arizona:

Camp Verde 21 K21GE QC from K61BG, 1.22kw; PR<790w

Globe 16, K16FB, FC; sold to Telefutura

Phoenix 10 KSAZ-TV NS 105kw/500m, 33-20-01/

112-03-32 (aux)

Phoenix 31 KSAZ-DT NW 1000kw/484

Phoenix 45 KUTP NS 934kw/502m,

33-20-03/
 112-03-46 (aux);
 AF 2473kw/502m
 dismissed (aux)
 FC; sold to
 Telefutura

Safford 15, K15GC,
 21 K21GC

Arkansas:

Bentonville 14 KHMf-CA CC from K14IT
 Eureka Springs 34 KWBS-TV PR<1600kw/220,
 36-24-48/

93-57-17; FC,

drops Pax

Fort Smith 24 KFTA-TV CC from KPOM

Fort Smith 27 KFTA-DT PR>1000kw

Fort Smith 32 K32GH QC from K68ET,
 150kw, 35-47-49/

94-10-04

Fort Smith 34 K34EN PR>150kw

Fort Smith 43 KXUN-LP PR>150kw

Hindsville 59 KRBF-CA CC from K59ES

Pine Bluff 45 KWbK-LP PC>150kw,

34-29-12/

92-09-28

Rogers 50 KNWA-DT PR>1000kw/267,

36-24-48/

93-57-17; PG

Rogers 51 KNWA-TV CC from KFAA

Siloam Sprs. 33 KKAf-CA CC from K33FG

Texarkana 19 KTEV-LP PR<12kw,

33-24-54/

93-58-07; CL from

Prescott

California:

Chico 28 KKPM-CA PC<129kw

Clarks Crossing 48 K48IH PR>40kw,

38-32-21/

122-57-36

Corona 52 KVEA NS 680kw/907m,

34-13-32/

118-03-52 (aux)

Fresno 39 KMSG-LP PG>50kw,

36-44-46/

119-16-57

Fresno	40 KVPT-DT	NW 250kw/698m
Hesperia/ Pearblossom	62 KRCA-1	NW 8kw, 34-21-08/ 117-40-27
Huntington Beach	48 KOCE-DT	PG<949m
Los Angeles	65 KTTV-DT	NW 1000kw/902
Modesto	44 K49EO	QR from ch. 49, 50.2kw, 37-43-45/ 121-11-49
Monterey	27 K27IE	QG from K53DT, 22.1kw
Morongo Valley	3 K03HS	NS 999w, 34-03-54/ 116-32-43
Morongo Valley	18 K18HN	QG from K05CU, 9.99kw, 33-55-28/ 116-36-53
Porterville	31 KVVG-LP	FC to Almavision
San Francisco	32 931101KG	AF dismissed (MX w/KMTP-32)
San Francisco	40 KMMC-LP	QC from ch. 52, 42kw, 37-41-15/ 122-26-01; PG>44kw
Sanger	59 KFRE-TV	PC>4600kw/641, 37-04-37/ 119-26-01
San Jose	50 KTEH-DT	NW 290kw/662m, 37-29-17/ 121-51-59
Stockton	46 KQCA-DT	PG<600kw/580m
Ventura	49 KJLA-DT	PR>1000kw/949, 34-13-35/ 118-03-58
<u>Colorado:</u>		
Boulder	15 KTFD-DT	XG 39-40-17/ 105-13-06
Colorado Springs	23 K23GJ	FC?, sold to KMGH-7
Cripple Creek	14 K14MH	QG from K57BY, 1kw, 38-46-21/ 104-59-32
Denver	27 KCIN-LP	PR<29.5kw, 39-40-24/ 105-13-03; PG; FC?, sold to KMGH-7
Estes Park	57 K57AA	FC?, sold to KMGH-7
Fort Collins	21 KFCT-DT	PG>1000kw
Haxtun	31 K31FZ	QC from K47DE, 890w
Vail	45 K45IE	XG 39-38-05/ 106-26-47
<u>Connecticut:</u>		
Hartford	61 WTIC-TV	PR>605m
Norwich	45 WEDN-DT	NW 200kw/192m
<u>Florida:</u>		
Fort Walton Beach	50 WFGX-DT	PR>1000kw/221, 30-23-46/ 86-59-13
Marianna	51 WBIF	FC, drops Pax
Mayo	40 W09CN	QR from ch. 9, 150kw
Miami	4 WFOR-TV	PR<57kw (aux)
Miami	50 WSBS-CA	PG>126.5kw, 25-58-15/

Naples	7 WBSP-CA	80-12-32
Panama City	6 W06CE	QG from ch. 9 30-19-42/ 85-41-22
Rock Harbor	49 W49CL	QG from W54BB, 75kw, 25-59-09/ 80-11-37
<u>Georgia:</u>		
Albany	57 W57DQ	PR>150kw, 31-39-16/ 84-10-36
Hazlehurst	56 WVOH-LP	CC from W56DU
Tifton	38 W38DG	QC from W51AR, 1kw
Vidalia	59 W59DS	PR<140w, 32-14-02/ 82-28-52
<u>Hawaii:</u>		
Kailua-Kona	32 K32GJ	FC; sold by TBN
Wailuku	51 KAUI-LP	PR<10kw, 20-46-22/ 156-14-42; PG
<u>Idaho:</u>		
Bonnars Ferry	33 K67DI	QR from ch. 67, 1.1kw dismissed
Coolin	9 K09XY	QG from K08JH, 240w
Sun Valley	5 KIDA	PG>100kw/572m 43-26-47/ 114-12-52
Twin Falls	38 KTFT-LP	PC>150kw, QC from zero offset to plus
<u>Illinois:</u>		
Chicago	7 WLS-TV	AF 60.3kw/410m, 41-53-56/ 87-37-23 (aux)
Effingham	45 WEIL-LP	XR 39-57-03/ 88-52-05
Mt. Vernon	13 WPXS	FC, drops Pax
Palatine	40 W40BY	QG from W68DO, 37.2kw
<u>Indiana:</u>		
Indianapolis	34 WIPX-LP	PR>150kw, 39-55-43/ 86-10-55
Jeffersonville	9 WVHF-LP	QG from ch. 16, 3kw, 38-22-08/ 85-49-48
Lafayette	51 W51DU	QG from W57DC, 35.4kw
<u>Kansas:</u>		
Garden City	47 KGKT-LP	PR<6.9kw, 37-57-27/ 100-48-46; PG
<u>Kentucky:</u>		
Glasgow	60, W60DC, 62, W62DC, 64 W64CR	FC; sold by TBN
Lexington	39 WLEX-DT	NS 475kw/288m, 38-02-03/ 84-23-39
Morehead	21 WUPX-DT	NW 719kw/428m, 37-54-26/ 83-38-01
Morehead	67 WUPX-TV	PG>446m
<u>Louisiana:</u>		

Monroe	19 KLTM-DT	NW 6.7kw/154m, 32-31-39/ 92-06-08
New Orleans	22 WTNO-LP	XG 29-55-11/ 90-01-29
New Orleans Slidell	11 WYES-DT 24 WUPL-DT	NW 70.8kw/307m NW 1000kw/272, 29-55-11/ 90-01-29
<u>Maryland:</u>		
Baltimore Crofton	41 WUTB-DT 31 W31CW	PG>200kw QG from W61BY, Annapolis; 59.2kw, 38-59-46/ 76-39-26
Frederick	28 WFPT-DT	PR 30kw/159m, 39- 15-38/ 77-18-45; PG
Frederick	62 WFPT	PR 2500kw/159, 39-15-38/ 77-18-45
Ocean City	63, W63DC, 65 W65EF	FC; sold by TBN
Salisbury	69 WQAW-LP	PR<30kw, 39-15-18/ 76-40-32
<u>Michigan:</u>		
Cheboygan	35 WTOM-DT	NW 78kw/168m
East Lansing	55 WKAR-DT	NW 54.6kw/294m
Lansing	51 WLAJ-DT	NW 900kw/300m
Muskegon	38 WMKG-LP	QC from ch. 40, 33.8kw; CL from Norton Shores
St. Ignace	24 NEW-LP	AF dismissed
<u>Minnesota:</u>		
Deer River	59 K59BQ	XG 47-21-25/ 93-45-13
Hibbing	15 K15GT	QC from K31HE, 16.1kw
Jackson	16 K16GL	QG from K59FN, 3kw
Little Falls	18 K18GF	PG>2.29kw
Willmar	34 K52GK	QC from ch. 52
Willmar	50 K54GG	QC from ch. 54
<u>Mississippi:</u>		
Columbus	29 W29CT	PR<160w, 33-32-58/ 88-24-11
Greenwood	48 W48DI	NW 8kw, 33-31-29/ 90-09-52
Jackson	8 WBXK-CA	FC; sold by mtv2
Jackson	9 WLBT-DT	NS 7kw, 32-12-49/ 90-22-56
<u>Missouri:</u>		
Hannibal	7 KHQA-TV	QC from zero offset to minus
Kansas City	24 KCTV-DT	PG>1000kw/319
Kansas City	40 K40IC	QG from K48FS, 20kw, 39-01-20/ 94-30-49
Kansas City	45 K45IO	QG from K26CR, 150kw
Rolla	16 K16FE	NW 9.8kw, 37-52-39/ 91-44-45 (TBN)
Springfield	27 KDEB-TV	PR>5000kw

Springfield	49 K49DG	PC>19.3kw
St. Louis	16 KDTL-LP	PG>100kw, 38-34-24/ 90-19-30
St. Louis	51 KUMO-LP	QC from ch. 40, 70kw, 38-34-24/ 90-19-30
<u>Montana:</u>		
Columbus	24 K24FL	PR<610w, 45-37-36/ 109-15-36
Columbus	26 K26GL	PR<640w, 45-37-36/ 109-15-36
Elmo	39 K39HR	QG from K11RX, 250w, 47-49-00/ 114-18-50
Polson	16, K16GJ, 30 K30II	QC from K07HG, K06MQ 250w, 47-40-39/ 114-08-30
<u>Nebraska:</u>		
Columbus	36 K57HV	QR from ch. 57, 43.6kw
Lincoln	29 K29GL	QG from K58GD, 29.1kw
Valentine	29 KCAZ-LP	PG<10.1kw, 42-53-22/ 100-33-15
Valentine	33 KAZD-LP	PG<10kw, 42-53-22/ 100-33-15
<u>Nevada:</u>		
Battle Mtn.	3 KUVR-LP	CC from K03HL
Las Vegas	35 KYRK-LP	PC>150kw, 35-56-44/ 115-02-31
Laughlin	32 KMCC-DT	PG>1000kw/607, 35-39-07/ 114-18-42
Laughlin	57 K57JO	NS 10kw, 35-10-29/ 114-38-00
Reno, Etc.	68 KAZR-CA	CC from KUVR
Wells	26 K26HI	QG from K41DL, 750w; CL from Deeth
<u>New Jersey:</u>		
Newark	53 WFUT-DT	NW 310kw/321m, 40-45-22/ 73-59-12
Newark	68 WFUT-TV	NW 3000kw/336, 40-45-22/ 73-59-12 (aux)
Paterson	41 WXTV	NW 1400kw/321, 40-45-22/ 73-59-12 (aux)
<u>New Mexico:</u>		
Albuquerque	32 KAZQ	PC<263kw/1247
Caballo	31 K31DR	PG<9.99kw
Eagle Nest	38 K38EC	QC from no offset to zero
Las Cruces	22 KRWG-TV	PC 125m, 32-15-33/ 106-58-30
Roswell	27 KRPV	PC<472kw/122m, 33-23-50/ 104-22-34

Roswell	8	KOBR	PC<533m, 33-22-31/ 103-46-12
Santa Fe	9	KNMD-DT	PR<750w/1242m; PR<200w
Silver City	4	K04QG	NS 490w, 32-50-40/ 108-14-19
<u>New York:</u>			
Albany	26	WTEN-DT	PG>950kw/310m
Amsterdam	50	WYPX-DT	NW 450kw/207m, 42-59-04/ 74-10-56
Hempstead	32	W29CF	QR from ch. 29, 20kw
Plattsburgh	57	WCFE-TV	PR<462kw/737m
Saranac	40	NEW	AF 155kw/440m, 44-09-35/ 74-28-34
<u>North Carolina:</u>			
Durham	26	WTNC-LP	PC>150kw
Greenville	10	WNCT-DT	PG>575m
Hickory	14	WHKY-TV	PG>2000kw
Lumberton	35	W67DU	QC from ch. 67, 27kw
Raleigh	44	WHOA-LP	PG>150kw, 35-47-17/ 78-43-13
Raleigh	49	WRAZ-DT	PG>1000kw/614
Rocky Mount	45	W66DK	QC from ch. 66, 8.3kw
<u>North Dakota:</u>			
Devils Lake	25	NEW-DT	AF 134kw/245m, 48-03-48/ 99-20-09
Williston	51	KWSE-DT	NW 53.9kw/248m
<u>Ohio:</u>			
Bucyrus	54	WCSN-LP	CC from W54AF
Newcomers-town	29	W29CU	PR>66.9kw, 40-21-32/ 81-30-02; CL from Cambridge
<u>Oklahoma:</u>			
Allen	18	KDNT-LP	PR>150kw, 34-15-47/ 96-22-43; CC from K18GO
Hollis	53	K53AV	PC>1.1kw
McAlester	61	K61HM	PR<140w
Oklahoma C.	19	KUOT-CA	PC>23.7kw
Poteau	59	KSJF-CA	CC from K59GJ
Shawnee	29	KQOK-DT	PR<253m, 35-16- 58/97-20-18; PG
Weatherford	38	K38HM	QC from K59GE, 700w
<u>Oregon:</u>			
Bend	41	K41HA	PR>12.5kw; PG
Klamath	48	K48IW	NW 12.5kw, 42-59-49/ 121-37-57
Klamath Falls	48	K48HV	QC from K56EW, 7.24kw, 42-05-56/ 121-38-02
Merlin	56	K56FN	PR>13kw
Portland	26	K26GJ	QC from K58CO, 25.5kw
Portland	54	KPXG-LP	PC>105kw, 45-31-21/

Salem	16	KORS-LP	122-44-45 QR from ch. 36, 53kw, 45-31-21/ 122-44-45
The Dalles	31	K31HZ	QG from K66AH, 1.03kw, 45-42-43/ 121-06-58
<u>Pennsylvania:</u>			
Allentown	69	WFMZ-TV	NW 152kw/225m (aux)
Erie	56	NEW-LP	AF dismissed
Erie	58	WJET-DT	PR>1000kw/310
Freedom	31	WWBP-LP	QC from ch. 25, 29kw
Harrisburg	10	WHTM-DT	NW 16.2kw/311m
Mansfield	43	W43CJ	PR>6.3kw
Pittsburgh	26	WQEX-DT	NW 50kw/213m
<u>South Carolina:</u>			
Charleston	2	WCBD-TV	PG>599m
Columbia	35	WRLK-TV	PR<570kw
Sumter	39	WBHQ-DT	PG>391m, 34-06-58/ 80-45-51
<u>South Dakota:</u>			
Aberdeen	17	KDSD-DT	PG<19kw; NW (349m)
Martin	23	KZSD-DT	PG<39kw; NW (242m)
<u>Tennessee:</u>			
Chattanooga	3	WRCB-TV	PC>377m
Cleveland	42	WFLI-DT	granted DA
Knoxville	30	WVLT-DT	NW 398kw/551m, 35-59-44/ 83-57-23
Knoxville	7	WMAK-DT	NW 55kw/382m, 36-00-36/ 83-55-57
<u>Texas:</u>			
Abilene	18	KJTN-LP	PR>17kw, 32-17-49/ 99-43-00; PG
Abilene	29	KRBC-DT	PR>1000kw/268; PG
Baytown	57	KAZH	PC>597m, 29-34-15/ 95-30-37
Beaumont	52	K52IS	PG>50kw, 30-09-28/ 93-48-06
Beaumont- Orange	22	KEBQ-LP	XR 30-04-51/ 94-05-58
Britton	26	KODF-LP	PC>11.17kw, 32-35-21/ 96-58-12
Brownwood	17	KIDU-LP	PC>10kw, 31-52-12/ 99-07-13
Corpus Christi	38	960111LP	NS 1000kw/595, 27-23-56/ 97-28-42
Cuero	40	K40GQ	PR>150kw
Denton	43	KDTN-DT	NW 1000kw/494, 32-32-36/ 96-57-32
De Soto	28	KHPK-LP	PC>10.89kw, 32-35-21/ 96-58-12

De Soto	31 K31GL	XC 32-35-21/ 96-58-12
Gainesville	61 K61HP	FC; sold to Hispanic religious organization
Greenville	46 KTAQ-DT	NW 600kw/496m, 32-32-36/ 96-57-32
Hawley	45 K45IG	XG 32-31-55/ 99-45-39; CL from Truby
Keene	31 KGSW-LP	QG from ch. 46, 14.1kw
Livingston	28 K28HV	PR<100kw, 30-33-10/ 94-24-31; PG
Louise	50 K50HN	XR 29-24-29/ 95-49-55
Matador	47 K47GE	QG from minus offset to plus
Paris	64 K64GQ	NS 2kw, 33-37-15/ 95-32-50
San Angelo	16 KSAN-DT	PR>1000kw/186
Sonora	22 NEW-LP	AF dismissed
Victoria	17 K17FS	NW 50kw, 28-50-39/ 97-06-15
Utah:		
Cedar City	5 K05HB	PC>1.47kw; QC from no offset to minus
Cedar City	7 K07GQ	PC>390w; QC from no offset to minus
Cedar City	9 K09CJ	PC>390w
Cedar City	11 K11CQ	PC>390w; QC from no offset to minus
Cedar City	13 K13CP	PC>390w; QC from no offset to zero
Ogden	9 KUEN	CC from KULC
Orangeville	15 K15GQ	NW 4kw, 39-12-36/ 111-08-30 (KUEN- 9)
Provo	32 KCBU	PR 3072kw/812m
Salt Lake City	5 KSL-TV	PC 33.6kw/1157; PR 33.4kw/1168
Tropic	33 K33HX	NW 600w, 37-42-41/ 112-04-39
Vermont:		
Rutland	9 WVER-DT	GA from ch. 56
Virginia:		
Charlottesville	7 NEW-LP	AF RE 3kw, 38-20-39/ 78-25-00
Charlottesville	16 WVAW-LP	QG from ch. 64, 150kw; QC
Charlottesvl.	19 WCAV	NW 1000kw/326, 37-59-03/ 78-28-52 (CBS)
Charlottesville	32 WVIR-DT	PG>1000kw; NW
Charlottesville	38 W38DV	NS 50kw, 38-04-47/ 78-44-22
Charlottesville	45 NEW-LP	AF RE 50kw, 38-20-39/ 78-25-00

Goldvein	30 WNVT-DT	LC rescinded
Lynchburg	50 WTLU-CA	QC from ch. 19, 40.6kw, 37-11-51/ 79-21-07
Washington:		
Bellingham	25, NEW-LP	AF dismissed
	57, 62	
Colville	9 K09UP	PR>1.25kw, 48-34-30/ 117-55-00
Spokane	52 KHBA-LP	PR<13.5kw
Tacoma	27 KBTC-DT	NW 47.2kw/224m
West Virginia:		
Charleston	19 WVAH-DT	PR>514m
Wisconsin:		
Elk Mound	45 W45CF	PR<140w, 44-48-00/ 91-27-56; CL from Chippewa FI
La Crosse	8 WKBT	PR<465m
La Crosse	41 WKBT-DT	PR<875kw/462m
Madison	19 WMTV-DT	NW 56kw/387m
Menomonie	27 WHWC-DT	NW 291kw/350m
Racine	48 WJJA-DT	PR<6.09kw/137m 42-51-18/ 87-50-41
Wausau	50 W50DK	NS 20kw, 45-03-22/ 89-27-54 (TBN)
Wyoming:		
Cheyenne	13 KCHY-LP	NW 3kw, 41-09-34/ 104-43-21 (NBC)
Cheyenne	14 K14LV	PR>11.2kw, 41-10-01/ 104-45-21
Jackson	5 K05LV	NS 50w, 43-27-42/ 110-45-13
Laramie	14 K14LK	PG<11kw, 41-17- 17/105-26-42; NW

Thanks to Frank Merrill, Bill Hale, Bill Hepburn, and Michael Joseph (who I don't think is a WTFDA member) for information appearing elsewhere in this month's column.

Frank notes KHQA-7 is back to the correct offset. (minus) The station had been on zero offset, zero-beat to WLS-7, for several months if not over a year. As I noted at the time, a major transmitter manufacturer is headquartered in nearby Quincy, Illinois and Quincy/Hannibal stations are often used for equipment tests – my guess is that's what happened here.

Frank also wrote: "I have noticed Peoria 59 MUCH stronger in recent months, I don't remember seeing an upgrade for them, but if one was coming it's obviously on. " I don't see an upgrade for WAOE-59's analog either. (they do plan a downgrade for their digital permit...)

Michael works for W07BY in Morehead, Kentucky. (which apparently is on cable channel 10 as their website is <http://www.tv10morehead.com> ...) The 18-watt LPTV carries Jewelry TV home-shopping and World Harvest TV (WHT) religion. He says W06BC and W02BP (Mt. Sterling KY) are off, after an arson fire destroyed their studios.

Searching International Telecommunications Union (ITU) data, Bill found a list of the transmitters for the new Cuban network "Canal Educativo 2". Powers are unknown but cities, channels, and coordinates are:

City	Ch	Coordinates
Isla de la Juventud (Sierra Caballos)	5	21-52-12/82-46-28
Havana (Televilla)	15	23-02-34/82-27-24
Nuevitas	20	21-32-23/77-16-04
Pinar del Rio (Guanito)	20	22-27-08/83-46-54
Santa Clara	20	22-22-18/79-57-55
Ciego de Avila	21	21-49-57/78-43-57
Santiago de Cuba (Puerto Boniato)	21	20-05-53/75-49-47
Cajalbana	22	22-47-22/83-26-40
Moa (Miraflores)	22	20-37-26/75-02-15
Sancti Spiritus	23	21-53-27/79-26-33
Victoria de las Tunas	23	20-56-15/76-56-55
Camaguey	24	21-21-50/77-52-32
Cueva Arriba	24	20-06-00/75-50-00
Matanzas (Jacan)	24	22-51-23/81-20-52
Salon	25	22-49-44/82-57-17
Yaguajay	25	22-12-00/79-06-00
La Capitana	26	22-19-21/83-57-40
Loma La Cruz	28	20-53-58/76-16-03
Baracoa (Los Guineos)	32	20-19-38/74-35-36
Santa Cruz	32	23-09-00/81-55-58
Guines	33	22-52-38/82-04-10
La Cumbre	34	23-04-09/81-34-08
Trinidad	34	21-48-48/79-58-35
Mayari (El Ramon)	35	20-48-20/75-34-45
Bartolome Maso	44	20-09-32/76-56-42
Havana Libre	44	23-08-21/82-22-57
Bayamo	48	20-22-21/76-38-42
Cienfuegos (Los Mangos)	48	22-08-36/80-24-06
Manzanillo	54	20-20-28/77-07-01

Bill Hale chimes in with a LPTV bandscan from Victoria, Texas.

First, Victoria has two full-license stations: KVCT-19 (Fox) and KAVU-25. (ABC)

Next, out of the same building as KAVU, Saga operates at least four LPTVs:

- ✍ KXTS-LP (41), NBC including local news
- ✍ KUNU-LP (21), Univision
- ✍ K39HB, WB (calls itself "KWVB")
- ✍ KVTX-LP (45), Telemundo

Bill thinks there might be one more operated by Saga.

Three more LPTVs operated by others:

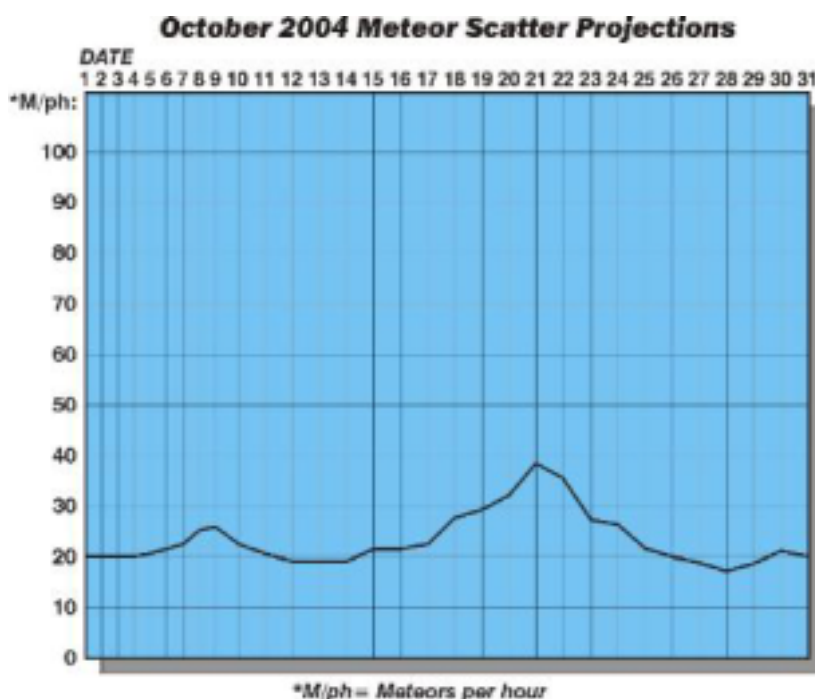
- ✍ KKIT-LP (34), old English movies and some Spanish programs.
- ✍ KBGS-LP (51), Spanish (I list as Telemundo but if KVTX is Telemundo then I suppose KBGS isn't...)
- ✍ KCPV-LP (55), seemed to be parallel to KKIT-34.

Finally, Bill noted a few others which he couldn't identify. My database lists LPTV permits/licenses for channels 13, 17, 23, 31, 38, 42, 43, and 49. 31 is supposed to be UPN, but Bill didn't see a UPN station so maybe it's off? 43 is supposedly a TBN.

Here's hoping DX picks up after we run out of hurricanes!



METEOR SHOWER GUIDE FOR OCTOBER 2004



OCTOBER'S MAJOR SHOWER

Orionids (ORI) October 15-29 2004. This one will peak on Oct. 21 @ 01:30 UT. Orionids at peak will average 20-25 pings per hour.

Chart and Info supplied by Jim Thomas



Kiss 98-9

FM NEWS

ADAM RIVERS
37 CARLTON AVE
CHICOPEE MA 01020

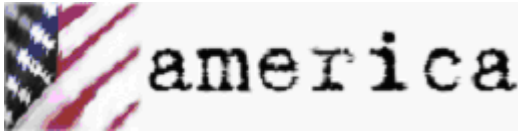


ABBREVIATIONS:

AF: applied for (a new station)
 AFA: American Family Association
 CC: call letter change
 CL: city of license change
 CX: a construction permit has been cancelled
 C1, C2, etc.: a change in status to that FM license class
 DA: directional antenna
 DE: station has been deleted
 FC: format change
 GA: granted amendment to the table of FM allocations
 GE: granted extension of construction permit
 GX: granted replacement of expired permit
 LC: license to cover filed (ready to come on the air)
 MC: multiple-city ID
 NC: no change yet on a reported change or permit
 ND: non directional antenna
 NO: not on the air
 NS: new station granted

NW: new station signs on
 OSA: one step application granted for change
 PA: proposed amendment change to FM allocation table
 PC: power change on the air (> = increase, < = decrease)
 PG: power change granted (> = increase, < = decrease)
 PR: power change requested
 QC: frequency changed occurred
 QG: frequency change granted
 QR: channel change requested
 RA: silent stations returns to the air
 RE: station requests an extension on permit
 RX: station requests replacement of expired permit
 SC: slogan change or update
 SI: station is silent
 SOA: signed on air
 XA: dismissed amendment to FM allocations
 XC: transmitter site change occurred
 XG: transmitter site change granted

OCTOBER 2004



ALABAMA:

Brewton: WELJ 90.9, PG>100kw
 Bryant: WWFC-LP 99.9, NW ?w/163m, 34-52-35/85-35-17
 Hackleburg: WFMH 95.5, PG 4kw/122m, 34-18-38/87-56-13; CL from Holly Pond
 Heflin: WPIL 91.7, PG>1kw/1m
 Hobson Cty: WASZ 95.5, PR 530w/332m, 33-37-38/85-53-25; CL from Ashland
 Luverne: WQLD 104.3, CC to WNTM
 Midfield: WBHJ 95.7, PR<12.2kw/306m, 33-27-37/86-51-07; CL from Tuscaloosa
 Montgomery-Troy: WTSU 89.9, PR>100kw/234m
 Northport: NEW 105.1, PA class A
 Pelham: WXMT-LP 105.5, XR 33-19-27/86-49-33
 Smith: WBFA 101.3, FC to rhythmic "The Beat"



ARIZONA:

Chino Vly: KFPB 94.3, PC 4.1kw/247m, 34-49-32/112-34-09
 Gilbert: KEDJ 103.9, PG>99.59kw
 Kingman: KFLG 94.7, PG 43kw/790m
 Sun Cty West: KFMR 95.1, PR 41kw/849m, 34-14-05/112-22-02

ARKANSAS:

Barling: KOLX 94.5, PR<18.5kw/82m, 35-15-54/94-21-52
 Greenbrier: KKSJ 107.1, GA from Bald Knob
 Hardy: KOOU 104.7, PR<5.4kw/93m, 36-16-29/91-30-18
 Harrisburg: KBZR 95.9, CC to KWHF, FC to classic country "95.9 The Wolf"

Horseshoe Bend: KKIK 106.5, NW 12kw/145m, 36-15-22/91-55-23,, signs on with classic hits
 Humnoke: KKRN 101.7, CC to KPZK, FC to black gospel "Praise"
 Sheridan: KVLO 102.9, FC to black gospel "Praise"

CALIFORNIA:

Bakersfield: KKXX 96.5, CC to KBKO, FC to country "Big 96.5"



Cambria: NEW 106.5, PA class A
 Coachella: NEW 103.5, PA class A
 Coachella: KBXO 90.3, PR 340w/175m
 Delano: KKDJ 105.3, FC to Spanish oldies
 Eureka: KKKK-LP 98.1, CC for new station
 Joshua Tree: KDHI 92.1, CC to KQCM
 King City: NEW 102.9, PA class A
 Lompoc: KRQK 100.3 and KBOX 104.1, PR>267m, 34-44-20/120-26-41
 Mount Shasta: KMJC 107.9, PR>20kw-H/249m, 41-13-37/122-14-23
 San Jacinto: KWIE 96.1, PC 1.4kw/209m, 34-02-13/116-58-07
 Santa Barbara: KIST 107.7, FC to modern rock "FM 107.7"
 Santa Clara: KEMR 105.7, CC to KVVF
 Santa Paula: KCZN 96.7, CC to KLJR
 Twentynine Palms: KKJT 96.3, CC to KXCM
 Yucca Valley: KDGL 106.9, PR<25kw/90m, 33-57-20/116-39-18

COLORADO:

Carbondale: KDNK 90.5, PC 450w/775m, 39-25-08/107-22-10
 Carbondale: KCJX 88.9, NW 4kw/775m, 39-25-08/107-22-10, //KAJX 91.5 Aspen
 Salida: KHEN-LP 106.9, PG>-101m, 38-32-30/105-59-11

FLORIDA:

Boca Raton: WKIS 99.9, PA to class C0
Chiefland: WTBH 91.5, CX, DE
Coral Cove: WSRZ 107.9, PC 47kw/155m, 27-09-03/82-27-51
DeFuniak Springs: WAKJ 91.3, PG 1.8kw/52m, 30-41-30/86-08-34



Fort Lauderdale: WHYI 100.7, PA to class C0
Gulf Breeze: WRRX 106.1, FC to R&B oldies "Magic 106.1"
Key Largo: WGES 90.9, NW 33kw/94m, 25-14-07/80-19-35
Lake City: WDSE-LP 107.7, CC to WMJB-LP
Live Oak: WLVO 106.1, CX, DE
Micco: WBFT-LP 105.5, NW ?w/33m, 27-53-24/80-32-11
Milton: WTGF 90.5, CX, DE
Naples: WSOR 90.9, PG<275m, 26-20-29/81-42-38
Summerfield: WJRN-LP 95.9, NW 100w/17m, 29-00-45/82-07-31
Tampa: WBVR 90.5, XR 27-50-53/82-15-48

GEORGIA:

Americus: NEW 106.9, PA class A
Atlanta: WRFG 89.3, PG 65kw/148m, 33-48-26/84-20-22
Blakely: WBBK 93.1, FC to R&B "Magic 93"
Bowdoin: WMAX 105.3, FC to regional Mexican "Viva 105.3", CC to WWVA-FM
Hawkinsville: WQSY 103.9, CC to WRPG
Helen: WHEL 105.1, CC to WWVA, simulcasting WWVA Atlanta
Lavonia: WSGC 92.1, PR>4.9kw/112m, 34-21-37/83-05-26; CL from Elberton
Lyons: WLYU 100.9, PR>6kw



Ocilla: WKAA 97.7, CC to WDMG-FM
Ringgold: WTUN 101.9, PR 880w/260m, 34-49-12/85-00-30
Statenville: WHLJ 97.5, PR 4.2kw/120m, 30-48-22/83-00-21
Willacoochee: WDMG 99.5, CC to WKAA
Wrightsville: WDBN 107.5, PG>10kw

HAWAII:

Honolulu: KHPR 88.1, PG<23kw
Honolulu: KPOI 97.5, FC to news/talk, //KHNR 650, CC to KHNR-FM
Honolulu: KHUI 99.5, FC to Hawaiian music
Honolulu: KAHA 105.9, CC to KPOI-FM, FC to modern rock
Kilauea: KAQA 91.9, PR>1.75kw/477m, 21-58-41/159-29-55

IDAHO:

Soda Springs: KITT 100.1, PR>50kw/107m, 42-39-52/111-30-30
Sun Valley: KBSS 91.1, NW 700w/570m, 43-38-36/114-23-49, Public Radio//Boise

ILLINOIS:

Cairo: WBEL 88.5, PC>55kw
Johnston City: WDDD 107.3, GA from Marion



Okawville: WIBV 102.1, PR 9.7kw/160m, 38-21-53/89-20-58; CL from Mount Vernon

INDIANA:

Cicero: WJCY 91.5, PR<470w-V/59m
Columbus Cty: WSHI 106.3, FC to top 40 "B106.3", CC to WDDB
Elkhart: WLFO-LP 98.7, PR<470w-V/59m
Fort Wayne: WFWI 92.3, PR>2.2kw/166m, 41-06-39/85-11-44
Lafayette: WQSG 90.7, PR<15kw-V/90m, 40-22-20/86-30-32
New Harmony: NEW 101.1, PA class A
Seymour: WQKC 93.7, PC<24.5kw-V (remains 25kw-H)
South Bend: WUBU 106.3, PR>92m
W. Lafayette: WWCC-LP 97.7, NW ?w/74m, 40-23-26/86-51-52

IOWA:

Des Moines: KHKI 97.3, PR 105kw/143m
Des Moines: KIOA 93.3, PG>100kw



Mount Pleasant: KILJ 105.5, FC to standards "Smooth Music 105.5"
Waterloo: KBOL-LP 100.1, PR 31m, 42-29-57/92-20-08

KANSAS:

Chanute: KFEX-LP 97.7, NW 100w/29m, 37-40-55/95-27-19
Girard: KSEK 99.1, PG>6kw
Newton: KMXW 92.3, FC to hot AC "Magic 92.3"
Shawnee: KMAJ 107.7, PR<90kw/299m, 39-00-45/95-01-46; CL from Topeka
Washington: NEW 102.1, class A

KENTUCKY:

Pineville: WRIL 106.3, PR 1.15kw/228m, 36-45-16/83-42-12

LOUISIANA:

DeQuincy: KTSR 92.1, PG 13.5kw/137m, 30-13-24/93-18-36; CC from KNUF; CL from DeRidder
DeRidder: KBAN 91.5, PC<110m
DeRidder: KNUF 92.1, PR 13.5kw/137m, 30-13-24/93-18-36, FC to hot AC "Star 92.1", CC to KTSR
Dulac: NEW 96.3, PA class A
Lake Charles: KBXG 99.5, PG 100kw/311m, 30-17-26/93-34-35



Lake Charles: KOJO 91.1, PC>4kw-H/14kw-V/118m, 30-12-07/92-56-47
Maurice: KFKZ 106.3, CC to KKSJ, FC to smooth jazz //KRXE 105.9
Oil City: KVMA 107.9, PC<24.5kw/163m, 32-29-36/93-45-55; CL from Magnolia, AR, FC to Hot AC "Hits 108"
Opelousas: KRXE 105.9, CC to KTSJ, FC to country and then smooth jazz
Shreveport: KRMD 101.1, PR>100kw/475m
Shreveport: KBED 102.9, PR 42kw/163m



W. Monroe: KZRZ 98.3, FC to AC "Sunny 98"

MAINE:

Westbrook: WYNZ 100.9, PG<93m, 43-41-26/70-19-05

MARYLAND:

Frederick: WJTM 88.1, PC 1kw/340m, 39-29-30/77-30-00

MICHIGAN:

Detroit: WMGC 105.1, swapping main and aux facilities
Freeland: WWZP 90.9, NW 240w-V/65m, 43-28-55/84-04-23 (AFR)
Imlay City: WWKM 89.1, PR>6kw-V/100m, 42-53-47/83-14-09
Sandusky: WNFR 90.7, PR 42kw/150m, 43-10-27/82-36-01

MINNESOTA:

Albert Lea: KCPI 94.9, PC>5kw/90m
Grand Portage: NEW 96.9, PA class C0
Park Rapids: KDKK 97.5, PC>194m, 46-55-51/95-00-27



MISSISSIPPI:

Coldwater: WVIM 95.3, PC>3.6kw/129m, 34-46-45/89-58-01, FC to oldies "Oldies 95.3"
Horn Lake: WHAL 95.7, PC<88m, 35-08-09/89-58-17
Indianola: WYTF 88.7, NW 100kw-V/194m, 33-35-03/90-36-13 (AFR)
Jackson: WTYX 94.7, FC to classic hits hybrid "Jack FM"
Ocean Springs: WOYZ 92.5, FC to gospel "Hallelulah 92.5"
Tchula: WGNG 106.3, PC 7.1kw/152m

MISSOURI:

Centralia: KSDC-LP 94.9, NW ?w/31m, 39-14-45/92-12-38
Osceola: KCVJ 100.3, PC>6kw/86m, 38-03-43/93-33-24
Stockton: KRLK 107.7, PR<450w/68m, 37-41-45/93-46-15

MONTANA:

Butte: KMSM-FM 107.1, QR from 106.9
Butte: KFRD 88.1, PR>850m-V
Missoula: KBSO 102.5, PR>21kw/533m
Poplar: KPLR-LP 96.9, NW ?w/165m, 48-17-28/105-15-09
Whitehall: KESW-LP 106.5, NW 100w/-59m, 45-52-12/112-06-01

NEBRASKA:

Aurora: KIVE-LP 92.5, NW 100w/7m, 40-52-18/98-00-09



NEVADA:

Fallon Station: NEW 105.3, PA, class C
Fernley: NEW 94.1, PA, Class C3
Gardnerville: KGVW 99.1, CC to KCMY
Mesquite: KAIZ 88.5, PR<20.5kw/149m, 36-41-00/114-30-48
Panaca: KLNK 91.7, PR>1kw
Sun Vly: KHKR 94.5, CC to KUUB

NEW JERSEY:

Port Republic: WXXY 88.7, FC to gospel "Rejoice"

NEW MEXICO:

Pecos: KOOT 101.5, CC to KWRP, signs on as English/Spanish variety
Portales: KSEL 105.9, QR from 95.3; PR>100kw/165m
Santa Rosa: KNLK 91.9, NW 100w/-8m, 34-57-20/104-40-53, //KANW Albuquerque
Taos: KXMT 99.1, PG>60kw/651m, 36-51-32/106-00-28
Tucumcari: KQAY 92.7, PR>126m, 35-08-23/103-44-35

NEW YORK:

Canton: WNCQ 102.9, QC from 96.7, 23.5kw/103m, 44-32-10/75-05-46



Delhi: WDHI 100.3, PR>1.6kw
Morristown: WYSX 96.7, QC from 102.9, 17kw/108m
Norwich: WBKT 95.3, PR 470w/256m
Schulyer Falls: WAVX 90.9, PR 2.7kw/327m
Southampton: WEHM 92.9, PG 6kw/76m, 40-52-10/72-34-37
Southold: WBEA 101.7, PG 6kw/82m, 40-52-10/72-34-37

NORTH CAROLINA:

Bath: WZPE 90.1, PG<680w/39m; CC for NS
Creedmoor: WFXQ 99.9, PR 22kw/89m, 36-04-52/78-28-27; CL from Chase City, VA
Cullowhee: WWCU 90.5, PR>240w/289m, 35-26-23/83-07-11
Durham: WDCG 105.1, AF 35kw/285m(aux)



Fair Bluff: WPPG 105.3, CC to WNFI
Kinston: WWNF 97.7, FC to black gospel
Manteo: WUND 88.9, NW 50kw-H/47kw-V/418m, 35-54-00/76-20-45
Oak Island: WAZO 98.3, CC to WSFM, FC to modern rock
Shelby: WWMG 96.1, FC to rhythmic "The Beat", CC to WIBT
Southport: WSFM 107.5, CC to WAZO, FC to top 40

OHIO:

Cridersville: NEW 99.3, class A
Dayton: WUDR 98.1, PR>27m, 39-47-14/84-14-23
Delhi Hills: WJYC 90.1, PR<15kw/102m, 39-13-34/84-42-59
Ft. Shawnee: WZRZ 107.5, PC 1.35kw/151m, 40-39-50/84-05-07
Huber Hgts: WOXR-LP 97.7, NW 100w/29m, 39-53-19/84-08-17; CC from WSWO-LP
W. Carrollton: WDPR 88.1, PR>600w/238m, 39-43-16/84-15-00

OKLAHOMA:

Kingfisher: KSYY 105.3, CC to KINB
Pittsburg: NEW 94.3, PA class A
Tulsa: KMOD 97.5, PA from class C to ?

OREGON:

Medford: KLDZ 103.5, PG>146m, 42-17-13/123-00-15
Portland: KBPS 89.9, PR 3.69kw/440m
Portland: KPQQ 93.9, QR from 93.7, 42kw

PENNSYLVANIA:

Burgettstown: WOGH 103.5, PC 19.5kw/247m
Murrysville: WRWJ 88.1, PR>1kw-V/92m, 40-31-12/79-39-29
New Wilm: WWNW 88.9, PR>4kw-V/39m, 41-06-41/80-20-21
Philadelphia: WXTU 92.5, PR 15kw/279m



Renovo: WZYY 106.9, PG>800w/267m, 41-14-15/77-45-02
Starview: WSJW 92.7, PC 700w/291m
State Coll: WRXV 89.1, NW 4.4kw-V/335m, 40-43-56/78-19-33
Stroudsburg: WBYX 88.7, PC>4kw-V/242m
Waynesburg: WANB 103.1, PC>970w

SOUTH CAROLINA:

Bowman: WSPX 94.5, PC 3.5kw/132m, 33-19-13/80-43-52
Charleston: WALC 100.5, PR 18.5kw/80m
Cross Hill: WHZQ 94.1, PR>6kw/100m, 34-11-59/82-00-58
Orangeburg: WQKI 102.9, PR 3.1kw/139m, 33-26-35/80-48-16
Parris Isl: WGZO 103.1, FC to classic hits "103.1 The Drive"
Richburg: WRBK 90.3, PG>7.5kw-H/7.3kw-V

Seneca: WHZT 98.1, PG 93kw/308m, 34-42-07/82-36-19



St. Matthews: WIGL 93.9, PC 1.75kw/185m, 33-45-46/80-49-23

TENNESSEE:

Benton: WTSE 91.1, NW 8.5kw-V/142m, 35-19-25/84-17-54

Bristol: WHCB 91.7, PR>4kw

Knoxville: WUOT 91.9, PR 63.9kw/534m

Manchester: WWTN 99.7, PR>451m



McKinnion: WTPR 101.7, PR>1.8kw

McMinnville: WCPI 91.3, PG 1.6kw/48m, 35-39-41/85-45-06

Munford: WJZN 98.9, PC<100kw-H/98.1kw-V/187m, 35-09-16/89-49-20

Nashville: WSM 95.5, SC to "The Wolf"

TEXAS:

Azle: KTCY 101.7, PC>92kw/620m, 33-26-13/97-29-05

Bay City: NEW 88.1, NS 45kw/100m, 28-42-08/95-56-41 (Family Radio)

Brenham: KULF 94.1, PG>50kw/150m, 30-23-31/96-20-15

Carbon: NEW 95.5, PA class A

Crosbyton: NEW 100.7, PA class C3

Cross Plns: NEW 106.7, PA class A

Dallas: KDMX 102.9, PR>100kw/485m

Dallas: KJJK 100.3, PC>574m, 32-35-05/96-57-46

Falfurrias: KPSO 106.3, PC>6kw/56m

Fort Worth-Dallas: KDGE 102.1, PR>100kw/485m



Gainesville: KSOC 94.5, PR>100kw

Laredo: KBNL 89.9, PG>184m, 27-39-27/99-35-10

Linden: KIXX 99.3, CC to KLBL

Midland: KACD-LP 94.1, NW 100w/28m, 31-59-26/102-05-55

Paducah: NEW 94.7, PA class C3

Palacios: NEW 100.7, PA class A

Pecos: KKLY 97.3, silent

Plainview: KBAH 90.5, PC>75kw/130m, 34-03-58/101-42-16

Sanger: KTDK 104.1, PR 6.1kw/193m, 33-28-48/97-03-16

San Marcos: KEYI 103.5, FC to classic hits/Hot AC hybrid "Bob 103.5", CC to KBPA

Seabrook: KRTS 92.1, FC to AC/80s oldies "The New 92.1 FM", CC to KROI

Stephenville: KTRL-LP 100.7, NW ?w/34m, 32-13-00/98-13-00

UTAH:

Delta: KMGR 95.9, PC>100kw-H/293m, 39-43-58/111-56-34

St. George: KAER 89.5, PG>7kw/555m, 36-50-49/113-29-28

VERMONT:

Hartford: WWOD 104.3, PR>7.3kw/183m, 43-45-34/72-22-16

Norwich: WNCH 88.1, PR 100w-H/1.6kw-V/688m

VIRGINIA:

Grundy: WMJD 100.7, PR 2.3kw/163m

Louisa: WOJL 105.5, PR>6kw

Richlands: WRIC 97.7, PR 1.35kw/214m

Roanoke: WMGR 104.9, PC>14.5kw/282m, 37-22-23/79-55-40

Stephens City: WKSI 98.3, PG 1.75kw/188m, 39-10-38/78-15-53; CL from Charles Town, WV



Virginia Bch: WJLZ 88.5, PG<36m, 36-50-31/76-05-37

WASHINGTON:

Aberdeen: KAHS-LP 106.5, NW 100w/-22m, 46-58-46/123-49-09

Covington: KMCO 104.5, PR<25kw/97m, 47-11-13/121-54-11; CL from The Dalles, OR

Elma: KAYO 99.3, PC>41kw/620m, 47-19-12/123-20-41

Gig Harbor: KGHP 89.9, PG>61m

Long Beach: KAOX 92.7, PR>6kw

Othello: KHTO 97.5, PG>50kw/189m, 46-17-23/119-25-28

Spokane: KYRS-LP 95.3, NW 100w/30m, 47-31-58/117-26-20

Union Gap: NEW 104.9, PA class A

WEST VIRGINIA:

Martinsburg: WVEP 88.9, PR 3.5kw/484m

Parkersburg: WHBR 103.1, PC 2.1kw/171m

Summersville: WMLJ 90.5, PC>315m

WISCONSIN:

Richland Ctr: WRCO 100.9, PR>23kw/105m

Sun Prairie: WXXM 92.1, FC to talk/Air America "92.1 The Mic"

WYOMING:

Rock Springs: KUWZ 90.5, PR 50kw/512m, 41-25-39/109-07-17

Sheridan: KWCF 89.3, PR<290w-V/44m, 44-34-32/106-52-23

Some news and notes:

A pretty quiet month.

The Federal Communications Commission has announced an auction of new FM channels for the day after the election in November. There are roughly 500 applicants but not nearly as many channels.

-Clear Channel plans on launching a "network" of Spanish-language radio stations in the next several months in several markets. They started off by flipping Atlanta's Talk FM 105.3 to Spanish, and plan to do so around the country. A Senior VP of Hispanic programming was also named

-WNEW/New York, with the addition of Frankie Blue as program director, is now in more of a Rhythmic AC direction, with songs as Usher's "Confessions Part 2" playing on a regular basis on the station....stay tuned

-This is past the time of publish date, but 20 years of AC WLTV/Milwaukee is expected to end on 9/20 as "the light is being turned off", according to Cindy McDowell, CC Milwaukee market manager. Some signs point to the Air America talk network..

-Due to Hurricane Ivan, WJLO, WBLX, and WKSJ, along with NBC-15 are all off the air as their tower was snapped in half. NBC-15 is on the local UPN affiliate, co-owned, on a temporary basis.

-All holiday programming is expected to start 9/20 on WSMJ/Baltimore

October 2004

And now some fantastic photos from Juan Gualda, of Ft. Pierce, FL. As you can see, Juan has an excellent location for receiving skip from places that most of us would never get to see! (Pub's note: Juan's home sustained some damage from Hurricane Frances. Juan, we hope you will be able to have it repaired and get yourself and your family back to normal operation soon...MB)

Equipment: Radio Shack VU-190 VHF/UHF/FM antenna @ 35 ft., Channel Master 7777 preamp, RG-6 coax, and WinTV-D card (for video captures).



RCTV-2 Maracaibo?
Venezuela
1295 mi Es seen 5/10/04

Here is a reprint of the RCTV logo seen in the upper left of the photo:



Ed. Note: Per TVRadioWorld.com, it could be one of five RCTV stations on ch. 2, but Maracaibo (400 kW) or Caracas (132 kW) are the most likely, since they are right on the Northern coast and the easiest single-hop distance. Juan had Venezuela in for 45 minutes the morning of May 10th. He had at least 4 different Spanish audio signals fading in and out!



Caracol TV 4, Barranquilla?,
Colombia!
1193 mi Es seen 5/10/04
"Wow!" – jtk



WAPA-4 San Juan, PR
1100 mi Es seen 8/4/04
@0859 ET



WKAQ-2 San Juan, PR
1100 mi Es seen 5/23/04



WKAQ-2 San Juan, PR
1100 mi Es seen 5/10/04
@0832 ET
"radar map of Puerto Rico"



WIPM-3 Mayaguez, PR
1053 mi Es seen 5/23/04
*"TuTV is Puerto Rico's
version of PBS"*



WECT-DT-44 Wilmington, NC
488 mi Tr seen 5/26/04



WWAY-DT-46 Wilmington, NC
488 mi Tr seen 5/26/04



WITV-DT-49 Charleston, SC
369 mi Tr seen 5/26/04



Repretel-4 San Jose,
Costa Rica
1228 mi Es seen 6/6/04



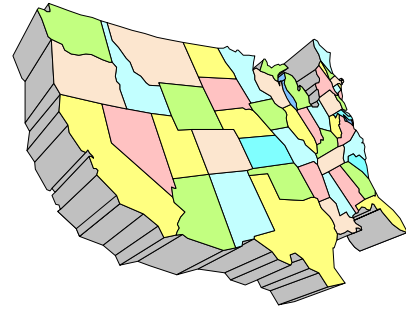
YNTC-2 Managua,
Nicaragua
1119 mi Es seen 6/6/04
"logo lower right"



73's,
JEFF

WESTERN TV DX

VICTOR FRANK
12450 SKYLINE BLVD.
WOODSIDE, CA 94062-4554
Victor.frank@sri.com



William Draeb, 1304 Ellis St., Kewaunee, WI
 54216-1802 (920)388-2350

Equipment: 1994 Sylvania 25" TV; Rohn 25G 40' tower; ch 2026, Y713, KU420(screened) antennas. CMA-Ub, CMA-HB; preamps; TR44 rotor; etc.

August 2004

1 Es	1913	unIDs	2-4	
4 Es	1606	CBHT	3	News
		unID	4	Same news
		CJCHt	5	
		WCSHt	6	
		WCAX	3	I.D. at 1659
		WGBHt	2	
	1626	unID	6	ATV News
	1629	CJCH6	6	
	1721	WFSB	3	Local news
	1758	WNYW	5	
		WNBCt	4	
		WCBSt	2	
	1822	WPSX	3	I.D. at 1828
	1830	WLNE	6	Local ad AT 1837
	1900	WBZ	4	
11 MS	1900-2100	Lots of bursts but no I.D.s, Perseids Meteor Shower		
12 MS	1900-2100	Fewer bursts, no I.D.s.		
tr	1844	WBIJ	4	Weak
15 tr	1930	unID	64	SSE, Fox
		W67CS	67	3ABN
		W64CG	64	with WFQX-33
16 tr	1200	W12BK	12	S.Bend IN, 3ABN.
		Unstable oscillator, constantly drifting.		
		Not much during the second half of the month.		

Jeff Kruszka, 5024 S. Braxton Ave.,
 Baton Rouge, LA 70817

<u>August 2004</u>				CT
2 tr	2212	KTBS	3	LA rare 205
	2213	unid 16	TBN briefly – Note 1	
	2230	KOKI	23	OK 480
	2302	KWBT	19	OK Note 2 435
	2304	KFAA	51	AR Note 3 435
	2310	KHOG	29	AR "40/29" 420
4 Es	2019	unid 3, 5	brief	
8 Es	0958	WPSX	3	PA 975
	1001	WOAY	4	WV Note 4 770
10 GW	2233	WYES-DT	11	LA 75
	2248	WUPL-DT	24	LA 85
22 tr	2239	KLRT	16	AR 300
	2330	KWBF	42	AR 300

Note 1 – More than likely this was KTAJ St. Joseph, MO as I was pointed in that direction.
 Note 2 – audio ID only – "Tulsa's WB"

Note 3 – It was nice of KFAA to put their calls at the bottom of the screen (with KPOM-24) for several minutes!
 Note 4 – BIG ID – was expecting WTAE

A nice little opening up to OK and AR but too brief. 73's, Jeff

Eric Bueneman (N0UIH), 631 Coachway Lane,
 Hazelwood, MO 63042-1347
 E-mail: N0UIHEric@aol.com Web site:
<http://www.qsl.net/n0uih/>

Equipment: Daewoo 13-inch (32 cm) color television, Alaron 12-inch (30 cm) black and white television, Zenith SpeakEZ mono VCR, Radio Shack VU-210XR at 30 feet (9.1 m) above ground level.

All times CDT; all distances in miles/kilometers.

July 5, 2004 (trop)

2304 WSTR 64 OH Cincinnati 320/515
 2305 WCET 48 OH Cincinnati "CET" 320/515
 2306 WXIX 19 KY Newport 325/523
 2307 WNDY 23 IN Marion "UPN Indiana" 285/459
 2310 WLFI 18 IN Lafayette 225/362

July 6, 2004 (E-skip)

1902 WPVI 6 PA Philadelphia 820/1320
 1904 KYW 3 PA Philadelphia 820/1320
 2038 WPSX 3 PA Clearfield 650/1046
 2110 WTKR 3 VA Norfolk 785/1263

July 9, 2004 (E-skip)

1258 WFSB 3 CT Hartford 955/1537

July 11, 2004 (E-skip)

1022 WEDU 3 FL Tampa 880/1416
 1100 WSAV 3 GA Savannah 700/1127

July 20, 2004 (E-skip/trop)

1845 KTVK 3 AZ Phoenix 1255/2020
 2034 KMEG 14 IA Sioux City "K-Meg 14" 410/660
 2117 KTVO 3 MO Kirksville 155/249
 2200 KDSM 17 IA Des Moines 255/410
 2229 KPWB 23 IA Ames 275/443
 2234 KCCI 8 IA Des Moines 255/410
 2338 KWVL 7 IA Waterloo 280/451
 2339 KIIN 12 IA Iowa City "IPTV" 225/362

August 2, 2004 (trop)

1156 Columbia 8, 17 (Grade A!) 105/169
 1157 Jefferson City 13 (A), 38 (Grade B), 41 100/161
 1158 KYTV 3 MO Springfield 190/306
 1159 KMOS 6 MO Sedalia 155/249

1200 KOLR 10 MO Springfield (through WGEM)
 190/306
 1201 Quincy, IL 10 (A), 16 110/177
 1436 KOZK 21 MO Springfield 190/306
 1516 KYOU 15 IA Ottumwa 185/298

August 3, 2004 (trop)

2225 Joplin, MO 12, 16 250/402
 2230 KCPT 19 MO Kansas City 225/362
 2240 KCWE 29 MO Kansas City 225/362
 2241 KSHB 41 MO Kansas City 225/362
 2300 KMCI 38 KS Lawrence "38 The Spot" 255/410
 2301 KPXE 50 MO Kansas City (W50CH nulled)
 225/362
 2302 KOAM 7 KS Pittsburg 260/418
 2308 KMBC 9 MO Kansas City (under KETC)
 225/362
 2314 KFJX 14 KS Pittsburg "Fox 14" 260/418

August 4, 2004 (E-skip)

1749 WCAX 3 VT Burlington 970/1561
 1800 CBMT 6 PQ Montreal 970/1561
 1851 CBFT2 3 PQ Mont-Laurier (CBC French
 //CBFT 2 Montreal) 920/1481
 1941 CBFT 2 PQ Montreal (under KTVI) 970/1561

August 6, 2004 (E-skip/trop)

1730 WCBS 2 NY New York 880/1416
 2254 KTVO 3 MO Kirksville 155/249

August 24, 2004 (trop)

2100 WHMB 40 IN Indianapolis (Grade B) 240/386
 2101 KUMO-CA 51 MO St. Louis (moved from
 Channel 40) 15/24
 2101 WEIU 51 IL Charleston (through KUMO-CA)
 130/209
 2102 WXIN 59 IN Indianapolis 240/386
 2103 WIPX 63 IN Bloomington 210/338
 2141 Evansville, IN 7, 9 (u/KETC), 14, 44 165/266
 2142 WLKY 32 KY Louisville 250/402
 2144 WKMJ 68 KY Louisville 250/402
 2155 WCCU 27 IL Urbana "Fox 27" 155/249
 2156 W28BE 28 IL Springfield (K28IK nulled)
 80/128

The E-skip opening of July 6 didn't peak as high up on the dial as those on the East Coast experienced; the MUF for that opening was 162.400 MHz. Anyway, I did get Philly on 3 and 6, as well as Norfolk on 3 later on. The E-skip opening on FM extended from southeastern Virginia up to southern Maine. The E-skip opening of July 11 brought two stations I haven't seen in a few years, WEDU 3 and WSAV 3. The E-skip opening of August 4 was a major surprise, with French all over the FM dial, with two catches over 1,400 miles. The TV dial finally brought much-wanted WCAX and a surprise in CBFT2, both on channel 3. The trop opening of August 24 had a near local-like signal from WCFN 49; K49FC was knocked off by severe thunderstorms, along with good signals from Indy and Louisville. Even local channel 28 was nulled to pull in Springfield, IL.

Two LPTVs have changed channels. The EWTN affiliate has switched from channel 62 to channel 28. The station no longer non-IDs as "KEFN"; the calls are K28IK. KUMO-CA has flipped from channel 40 to channel 51 to make room for KETC-DT 39. KUMO-CA and main station WPXS 13 still carries select Pax programs, but prime time

programming is now all Daystar. I still question the decision for WPXS to go to Daystar when St. Louis already has a Daystar affiliate.

73, Eric (N0UIH)

Dave Pomeroy, 2321 SE Libra Court
 Topeka, Kansas 66605-3505
 weberbosco@earthlink.net

Equipment: ChannelMaster 6' parabolic on Rohn tower at 50 feet with Winegard amp. Winegard VHF antenna model number unknown. Both on ChannelMaster rotor. Zenith set for analog, PC card and Samsung HDTV set for DTV.

July 2004

12 tr 2200 KWKB-20 Iowa City, IA
 WBUW-57 Janesville, WI
 KWQC-DT 56 Davenport, IA
 2330 WMVT-DT 35* Milwaukee, WI
 WISN-DT 34 Milwaukee, WI
 2250 WPXE-DT 40* Kenosha, WI
 UNID-DT 52
 13 tr 0330 KOZK-DT 23* Springfield, MO
 OPT 1 OPTHD OPT Kids OPT SMS
 (nice to see this before local DTV 23 goes 24/7)
 UNID-56 classical music
 (L-1 in upper left corner of purple screen)
 2000 KAZO-LP 57* Omaha, NE (Azteca)
 2040 KUON-DT 40 Lincoln, NE
 2230 KMEG-14 Sioux City, IA
 KDLT-46 KELO-DT 32 KSFY-DT 29
 Sioux Falls, SD
 KUSD-DT 34* Vermillion, SD
 KDSD-16 Aberdeen, SD
 (first time since KTAJ-16 went on in St. Joseph,
 MO)
 14 0700 KWAZ-LP 56* Lincoln, NE (Azteca)
 20 0630 14-25-30-34-52-62 OKC area
 0640 KWTW-DT 39 Oklahoma City, OK
 KJRH-DT 56 Tulsa, OK
 0645 WOI-DT 59* Ames, IA
 KWSM-20 Worthington, MN
 0750 WHO-DT 19 Des Moines, IA
 0800 KYIN-24 Mason City, IA
 2010 KTCA-DT 34* St. Paul, MN
 WFTC-DT 21 Minneapolis, MN
 2015 KSMQ-DT 20* Austin, MN
 WHLA-DT 30 LaCrosse, WI
 WCCO-DT 32 KARE-DT 35,
 KSTP-DT 50 KSTC-45 Minneapolis, MN
 2025 UNID-58 3ABN
 2030 WFTC-29 KPXM-DT 40* Minneapolis,
 KXLT-47 Rochester, MN
 21 0130 KHOG-DT 15 Ft. Smith, AR
 0550 KPXR-DT 47 Cedar Rapids, IA
 0555 KBSI-DT 51 Oklahoma City, OK
 0600 KPXD-68 Dallas, TX
 KTFO-DT 42 KOKI-DT 22 Tulsa, OK
 KXII-DT 20 Sherman, TX
 KOTV-DT 55* Tulsa, OK
 (over local TBN K55IL)
 0620 KOZJ-DT 25* Joplin, MO
 0700 KSNF-DT 46 Joplin, MO
 UNID-57 America One Network
 UNID-64 no video, Bible verses
 2045 KOOD-DT 16* Bunker Hill, KS
 22 2240 KLJB-DT 49* Davenport, IA
 (local KTKA-49 off-the-air for a few minutes)
 KWKB-20 Iowa City, IA
 (Western TV DX Continues on page 52)



John Zondlo
 4009 Driftwood Circle
 Yukon, OK 73099
 sfm@fmdxweb.com
 Deadline: 15th

For DXers in AL, AZ, AR, CA, CO, DE, DC, FL, GA, HI, KS, KY, LA, MD, MS, MO, NV,
 NM, NC, OK, SC, TN, TX, UT, VA, WV, Cuba & Mexico

October 2004

Eric Bueneman – NOUIH – 631 Coachway Lane – Hazelwood, MO 63042-1347 – NOUIHEric@aol.com - <http://www.qsl.net/nOuih> - CDT - miles/kilometers

Kenwood AR-304 AM/FM/FM Stereo receiver, Radio Shack VU-210XR VHF-TV/UHF-TV/FM antenna at 30' (9.1 meters) AGL

6/6 Tr

0554 WOOZ 99.9 IL Harrisburg, "Z-100," local ads, k, KFAV nulled 130/201
 0621 WDML 106.9 IL Woodlawn, local ads, wx, calls, classic r 85/137
 0628 Mount Vernon IL 88.9, 89.7, 94.1, 102.1 85/137

6/12 Tr

1030 KNWS 101.9 IA Waterloo, "New Life 101.9," PSA, CCM 280/451
 1045 KRMS 93.5 MO Osage Beach, "Classic Rock 93.5," calls, ads, wx 140/225
 1158 WRUL 97.3 IL Carmi, local remote, k 130/201
 1159 WAPO 90.5 IL Mount Vernon, American Family Radio, legal ID, AFR nx 85/137
 2255 WKDQ 99.5 KY Henderson, local ads, calls, k 170/274
 2259 WJZN 98.9 TN Munford, "Smooth Jazz 98.9," local ads, smooth j 230/370
 2310 KFEF 107.5 MO Campbell, "The Pulse 107-5," modern r 160/257
 2317 WWYN 106.9 TN McKenzie, "Win 106.9," Jackson ads, k 210/338
 2337 WKBG 102.1 KY Clinton, "Willie," local ads, k/WLIE 94.3 and WLLE 94.7 165/266
 2355 KBOA 105.5 AR Piggott, adult standards, legal ID, CBS nx 165/266

6/13 Tr

0005 WASL 100.1 TN Dyersburg, "SL-100," modern AC 195/314
 0013 KYMO 105.3 MO East Prairie, calls, o, WAOX nulled 145/233
 0017 WBEL 88.5 IL Cairo, American Family Radio, PSA, wx, CCM 140/225
 0135 WREZ 105.5 IL Metropolis, "105-5 The Cat," local ads, promo, CHR 145/233
 0142 WLIE 94.3 IL Golconda, "Willie," k/94.7, 102.1 160/257

7/6 Es

1823 WIHT 99.5 DC Washington, "Hot 99.5," CHR, promo for WWDC 101.1 715/1151
 1827 WAYV 95.1 NJ Atlantic City, calls, CHR 855/1376
 1829 WBPS 92.7 MD Prince Frederick, Salsa mx 745/1199
 1831 WGBH MA MA Boston, legal ID, mainstream j 1020/1642
 1838 WAAF 107.3 MA Worcester, calls, AOR 1005/1617
 1845 WKDN 106.9 NJ Camden, Christian talk/WYFR shortwave 820/1320
 1847 WTDK 107.1 MD Federalsburg, "107.1 The Duck," local ads, minor league baseball 785/1263
 1852 WRQX 107.3 DC Washington, "Mix 107.3," local ad 715/1151
 1855 WZBH 93.5 DE Georgetown, "93.5 The Beach," local ads, AC 810/1304
 1908 WJZW 105.9 VA Woodbridge, "Lights Out Washington," smooth j 705/1135
 1910 WXJN 105.9 DE Lewes, "Cat Country," k 820/1320
 1917 WBOS 92.9 MA Brookline, promo, local ads 1040/1674
 1922 WUSL 98.9 PA Philadelphia, urban contemporary 820/1320
 1932 WBLM 102.9 ME Portland, "The Blimp," local ads, calls, promo 1100/1770
 1937 WBCI 105.9 ME Bath, Christian teaching, mixing w/WHCN 1120/1802
 1939 WHCN 105.9 CT Hartford, "The River 105-9," classic hits 955/1537
 1959 WAMU 88.5 DC Washington, station promo, legal ID 715/1151
 2046 WSCL 89.5 MD Salisbury, wx forecast for the Delaware peninsula 800/1287

7/11 Es

1033 WMNF 88.5 FL Tampa, pledge break, call letters 880/1416
 1034 WZZR 94.3 FL Riviera Beach, talk mentioning Jupiter FL 1020/1642
 1047 WKRO 93.1 FL Edgewater, local ads, NASCAR USA talk show 865/1392

7/20 Tr

1903 KLRQ 96.1 MO Clinton, "K-Love," promo, CCM 185/298

1907 KQRC 98.9 KS Leavenworth, "98-9 The Rock, Kansas City's rock station," AOR 255/410
 1911 KMJK 107.3 MO Lexington, "Magic 107.3," R&B oldies 185/298
 2101 KNWI 107.1 IA Osceola, AP news, Mission Network News, Bible reading, PSA 225/362
 2108 KQKQ 98.5 IA Council Bluffs, "Q 98-5," modern r 335/539
 2111 WOI 90.1 IA Ames, c, wx, phone number given, \$ 275/443
 2113 KXCV 90.5 MO Maryville, c//KRNW 88.9, \$ 265/426
 2123 KSRC 102.1 MO Kansas City, "Star 102," wx, AC 225/362
 2206 KRNW 88.9 MO Chillicothe, local nx, Morning Edition promo, ID//KXCV, r 185/298
 2222 KOJY 106.9 IA Bloomfield, "Solid Gospel," southern Gospel, local ads, w/KTXV 175/282
 2320 KWCC 93.1 IA Muscatine, "93 Country," wx, jingle ID, k 185/298
 2322 KBEA 99.7 IA Muscatine, "B-100," local ads, Quad Cities wx, CHR, \$ 185/298
 2326 KEEY 102.1 MN St. Paul, "K-102," Twin Cities ads, k 450/724
 2332 WLLR 103.7 IA Davenport, calls, Quad Cities wx, k 190/306
 2348 WLRW 94.5 IL Champaign, "Mix 94.5," contest promo 150/240



7/21 Tr

1955 KWRT 93.1 MO Boonville, "Casino 93.1," adult standards, hosted by Gary Owens 125/201

8/1 Tr

1019 KGRS 107.3 IA Burlington, "Mix 107.3," AC/oldies 140/225
 1038 KLOZ 92.7 MO Eldon, "Mix 92-7," local ads, hot AC 140/225
 1043 KWTO 98.7 MO Springfield, "Jock 98-7," Fox Sports Radio's National Sports Report 190/306

8/2 Tr

1127 KMFC 92.1 MO Centralia, "Joy 92 FM," Back to the Bible 100/161
 1132 KPOW 97.7 MO LaMonte, "Power 97," classic r, legal ID 185/298
 1144 KBXR 102.3 MO Columbia, "102-3 BXR," modern AC 105/169
 1148 KWZB 107.5 MO Monroe City, "Classic Hits 107-5," local ads, classic hits 95/153
 1442 KJPW 102.3 MO Waynesville, "102.3 The Source," local PSA, AC 120/193
 1446 KNLN 90.9 MO Vienna, "Here's Help Network," southern Gospel, *Full Pardon* 95/153
 1510 KKFI 90.1 MO Kansas City, events calendar, job opening for GM 225/362
 1532 KJEL 103.7 MO Lebanon, "K-Jel," wx, local ads, \$ 155/249
 1540 Rolla MO 88.5, 97.5, 105.3\$ 80/128
 1550 KFBD 97.9 MO Waynesville, "The Ozarks' Solid Rock 97.9," local PSAs 120/193

8/3 Tr

2318 Springfield MO 90.1\$, 91.1, 97.3, 98.7\$, 101.3\$ 190/306
 2320 KMXF 101.9 AR Lowell, "Hot Mix 101.9," local ads, promo, CHR, voicetracked DJ 270/435
 2323 KKIX 103.9 AR Fayetteville, "Kix 104," k, *After Midnight* 280/451
 2325 KNYD 90.5 OK Broken Arrow, Oasis Network, southern Gospel 355/571

8/4 Es

1800 WPAT 93.1 NJ Paterson, "Noventa y tres punto uno FM," New York ad in SS 870/1400
 1803 CBF12 92.7 PQ Victoriaville, CBC nx, promos, wx, pop mx in FF 1060/1706
 1809 CIBM 107.1 PQ Riviere du Loup, talk, hot AC in FF 1200/1931
 1810 CJFP 103.7 PQ Riviere du Loup, PSA for Jonquiere, soft AC in FF 1200/1931
 1819 CHIK 98.9 PQ Quebec, local PSA, hot AC in FF 1115/1794
 1821 CJRE 97.9 PQ Riviere au Renard, local PSA in FF 1465/2358
 1825 CJMF 93.3 PQ Quebec, PSA in FF, r in EE 1115/1794
 1840 WMOO 92.1 VT Derby Center, "Moo 92.1," local road advisory, ads, CHR 1030/1658
 1852 CJSE 89.5 NB Shediac, PSA, pop mx in FF, first FM from New Brunswick 1405/2261
 1858 CHOX 99.5 PQ LaPocatiere, AC in FF//CIBM 107.1 1145/1843
 1902 CBF 95.1 PQ Montreal, CBC nx in FF, last year on 690 kHz 970/1561
 1904 CJBC 94.3 ON Belleville, CBC nx in FF//860 kHz in Toronto 765/1231

8/7 Tr

0007 KMMO 102.9 MO Marshall, wx, ID, k, \$ 155/249
 0010 Columbia MO 89.5\$, 96.7\$, 101.5\$, 102.3 105/169

8/24 Tr

2230 WCBH 104.3 IL Casey, o, CDT TC, wx, promo, ID 135/217
 2302 WBWN 104.1 IL LeRoy, "B-104," k through local WRDA 135/217
 2308 WYVR 97.7 IL Petersburg, "The River," local ads, modern AC 90/145
 2313 Champaign IL 91.7, 94.5\$, 97.5\$ 150/240
 2315 Springfield IL 89.7\$, 90.5\$, 91.9\$, 98.7\$, 101.9\$, 103.7\$, 104.5\$ 80/128
 2320 Decatur IL 93.1, 95.1\$, 102.9\$ 110/177

This was quite a time for FM DX. The E-skip opening of July 6 reached 162.400 MHz; but the FM band was filled with signals from Maine to Virginia. The highlights included three new signals from the Washington area (WAMU, WJZW and WRQX), adding two new stations from Delaware, and three

stations trading places dominating on 105.9 (WHCN, WXJN and WBCI). The July 13 E-skip opening brought two new Florida stations, while the July 20 trop opening brought in two new Iowa stations (KOJY and KWCC). Trop openings on two consecutive nights (August 2 and 3) brought three new stations from Missouri (KWBZ, KJPW and KNLN), as well as two new Arkansas stations (KMXF and KKIX) and a new FM (KNYD) from the Tulsa area. KMXF was noted carrying voicetracked bits from Carson Daly; the same thing aired on Clear Channel-owned WXAJ 99.7. The dial was packed with French stations on the August 4 E-skip opening; another record fell with the reception of CJRE 97.9, beating the previous record holder, KCLK 94.1 Clarkston, WA, by 15 miles. The first FM from New Brunswick was noted with CJSE 89.5. The big surprise of the August 24 trop opening was WBWN 104.1, pulled through WRDA (and I live six miles south of WRDA's transmitter site!). 73, Eric (N0UIH)

Fred Laun – 5801 Huntland – Temple Hills, MD – K3ZO@verizon.net

Denon TU-800 tuner, Winegard antenna @ 35'

8/23 Tr

2330 WMGV 103.3 NC Newport, "V-103.3" 254
2332 WAKG 103.3 VA Danville, ID 196

8/25 Tr

0002 WFXQ 99.9 VA Chase City, ID 161
0635 WQLV 98.9 PA Millersburg, "Love 99," first time I've heard this 780 watter 118
0646 WSIG 96.9 VA Mt. Crawford, "Country Legends WSIG" 107
0832 WYMY 96.9 NC Princeton, SS, "La Ley" 245
0835 WWOC 94.5 NC Hatteras, "Water Country" 235
0925 WQOK 97.5 VA South Boston, "K-97.5" 195

William McGuire – 2412 59th Place – Cheverly, MD 20785-2918

DX-398

7/31 Tr

2325 WJKS 101.7 NJ Canton, hip-hop mx, "Kiss 101.7"

8/9 Tr

2302 WTRG 100.7 NC Rocky Mount, "Oldies 100.7"

8/26 Tr

0014 WIOQ 102.1 PA Philadelphia, "Q-102"
0016 WAFX 106.9 VA Suffolk, promo, "The Fox"
0023 WUSL 98.9 PA Philadelphia, promo for local concert, "Power 99"
0034 WRVQ 94.5 VA Richmond, "The new Q-94"

8/27 Tr

0040 WKCK 93.7 VA Chesapeake, k, "Kick 93.7"

8/28 Tr

2317 WWSO 92.9 VA Suffolk, o
2324 WOSC 95.9 DE Bethany Beach, "96 Rock"
2335 WICO 97.5 MD Salisbury, local ads, //105.9, "Cat Country"
2340 WVES 99.3 VA Accomac, "Hot Country 99.3"
2344 WYFI 99.7 VA Norfolk, Gospel mx
2351 WESR 103.3 VA Onley, SID

8/29 Tr

0015 WLBW 92.1 DE Fenwick Island, PSA, o
0020 WDSD 92.9 DE Smyrna, *After Midnite*, k
0025 WAFL 97.7 DE Milford, "Eagle 97.7"
2140 unID 103.3 ?? ??, SS
2155 WRAR 105.5 VA Tappahannock, promo, ID
2216 WKWI 101.7 VA Kilmanock, "The New Bay FM"
2223 WNNT 100.9 VA Warsaw, "River Country 100.9"

8/30 Tr

0015 WRXL 102.1 VA Richmond, RDS "The X"
0024 WWZK 94.3 NJ Avalon, "Oldies 94.3," "Slammin' Gold"
0030 unID 92.5 ?? ??, religious mx, BBN
0038 WQOK 97.5 VA South Boston, hip hop, "K-97.5"

Dan Oetting - Elkton, MD

Harman Kardon Citation-23 tuner, 2 FM yagis in the attic 10' apart, Andy Bolin phase box

My location is on a large hill facing WNW. I'm impressed with my new DX set-up in my new house in Elkton, MD.

7/25 Tr

1605 WKYE 95.5 PA Johnstown, rm, taking out WPGC at times
1613 WJSA 96.3 PA Jersey Shore, g, ID
1624 WPRR 100.1 PA Altoona, jingles, wx
1640 WXDZ 105.9 PA Pittsburgh, ads, "The X," p, had them when I lived in Broomall PA
1641 WDSY 107.9 PA Pittsburgh, k
1641 WEGWt 107.5 WV Wheeling, car racing
1645 unID 98.3 ?? ??, "#1 hit music station"
1717 WORD 101.5 PA Pittsburgh, g, ID
1719 WVOR 100.5 NY Rochester, "Mix 100.5"
1809 WUSQ 102.5 VA Winchester, k
2100 WYFL 92.5 NC Henderson, g
2132 WWBE 98.3 PA Mifflinburg, k
2250 WGLU 99.1 PA Ebensburg, "Power 99.1," Johnstown ads
2257 WNBT 104.5 PA Wellsboro, "The Buzz," local ref

7/26 Tr

0025 WDKC 101.5 PA Covington, local old country request show
0028 WDDH 97.5 PA St. Mary's, k, "Great country in the great northwest...WDDH"
0031 WVRT 97.7 PA Mill Hall, r, "Variety 97.7," ads
0601 WZWW 95.3 PA Bellefonte, "3-W-Z"
1941 WKJX 96.7 NC Elizabeth City, "The All New Mix 96," ads
2138 WBZA 98.9 NY Rochester, Rochester ad
2158 WQLV 98.9 PA Millersville, "Love 99 FM," ID



7/27 Tr

0100 WSQA 88.7 NY Hornell, c, /WSKG, multiple IDs
0104 WBFO 88.7 NY Buffalo, calls

7/30 Tr

0107 WLGL 92.3 PA Riverside, k, "Susquehanna Valley's Big Country"
0139 WOWQ 102.1 PA DuBois, k, "The new Q-102," ads

8/4 Es

Es to MN, western ON, ND & WI, 15 new ones!

8/8 Tr

0947 WPIG 95.7 NY Olean, k, calls

8/10 Tr

0744 WNKI 106.1 NY Corning, r, "The all new Wink 106," ads
0800 WBGM 88.1 PA New Berlin, gm, IDs w/WPGM Danville

8/11 Tr

2231 WLZS 106.1 PA Beaver Springs, o, "Wheels 106," local ref

8/12 Tr

0010 WJQZ 103.5 NY Wellsville, dance party, "Z-103.5"

8/18 Tr

1000 WVEP 88.9 WV Martinsburg, c, WV Public Radio IDs

8/19 Tr

0100 WPGP 88.3 PA Tafton, g, ID

8/25 Tr

2111 WCTG 96.5 VA Chincoteague, o, calls
2239 WQMR 101.1 MD Snow Hill, calls, talk
2356 WRCH 100.5 CT New Britain, ads

8/26 Tr

0005 Delmarva, NYC and CT in nicely
0205 WHUS 91.7 CT Storrs, calls, weird r, haven't heard them in 22 years, new for MD location
0207 WDRC 102.9 CT Hartford, punching thru WMGK, o
0230 WZWW 95.3 Bellefonte, "3WZ"
0300 WBHD 95.7 PA Olyphant, r, "97.1 BHT"
0800 WAGO 88.7 NC Snow Hill, g, ID
0828 WLKK 107.7 NY Wethersfield, r, "107.7 The Lake," ID
0840 WPIG 95.7 NY Olean, k, strong!

0905 WUNC 91.5 NC Chapel Hill, wx
 0907 WRDU 106.1 NC Wilson, RDU traffic, solid
 0910 WWLI 105.1 RI Providence, local refs
 0916 CFMX 103.1 ON Cobourg, c, "Classical 96.3," local refs
 0930 WNCT 107.9 NC Greenville, o, ads
 1022 WRZE 96.3 MA Nantucket, r, ads

In the evening I got one new one, WBHV 103.1 State College PA, r, "Beaver 103." At one point I had 6 different 99.1s all in at once: WHFS, WAWZ, WSLQ, and 3 unIDs, one with 70s music, one with news/talk and the other with Top 40. All of the Roanoke powerhouses (89.1, 92.3, 94.9, 99.1) were coming in between 2230 and midnight.

8/29 Tr (tropical storm Gaston related)

0238 WCPE 89.7 NC Raleigh, c, calls
 0351 WRGB 107.9 DE Millsboro, LPFM, R&B oldies, songs sounded "muddy" and songs cut off before they ended. Also, when the ID came on, it interrupted the song in progress and a loud, distorted voice said, "WRGB-LP Millsboro community radio," signal fair
 0403 WJPG 88.1 NJ Cape May Court House, ID/WJPH 89.9, gr
 0417 WSRV 92.3 VA Deltalle, o
 1906 WZXR 99.3 PA South Williamsport, ad for Williamsport
 1910 WVOR 100.5 NY Rochester, "Mix 100.5," ads, hot AC
 2000 WWDL 104.9 PA Scranton, ID during local baseball
 2025 WVIN 98.3 NY Bath, promo
 2100 W249AT 97.7 PA Reading, j, WRTI ID
 2151 WDKC 101.5 PA Covington, k, local refs
 2355 WTRG 100.7 NC Rocky Mount, o, ID super strong!
 2358 WYFL 92.5 NC Henderson, g

8/30 Tr

0002 WBBB 96.1 NC Raleigh, rp, "The Triangle's 96 Rock," Raleigh ads
 0003 WQDR 94.7 NC Raleigh, k, "QDR," ads
 0020 WQOK 97.5 VA South Boston, s, "K-97.5"
 0104 WBXB 100.1 NC Edenton, black g, dual ID w/WURB Windsor NC
 0117 WOJL 105.5 VA Louisa, o, "Oldies 105," this one get a power increase? Strong!
 0130 WICE 98.3 VA Clarksville, o, "Cool 98.3," ad for Lynchburg
 0150 WFLO 95.7 VA Farmville, rm, calls
 0247 WLZS 106.1 PA Beaver Spring, o, "Wheels 106"
 0846 WYYD 107.9 VA Amherst, k, calls

The Raleigh stuff was strong for about an hour this morning and then fizzled fast. This was a nice opening because it wasn't the typical Norfolk VA and other coastal stuff. It was more inland.

8/31 Tr

0000 WDMT 102.3 PA Pittston, classic r, "The Mountain," ID
 0900 WAER 88.3 NY Syracuse, ID, NPR
 0905 WBFO 88.7 NY Buffalo, calls

9/1 Tr

2100 CFLY 98.3 ON Kingston, r, "More of Kingston's best music...98.3 Fly FM"
 2350 WCDW 100.5 PA Susquehanna, o, "Cool," local ref

9/2 Tr

0030 WLKK 107.7 NY Wethersfield, "The Lake"
 0915 WJNG 100.5 PA Johnsonburg, rp, wx, "Mega Rock"
 0945 WFLB 96.5 NC Laurinburg, local refs to Fayetteville and Wilmington, NC strong southern accent
 2301 WORD 101.5 PA Pittsburgh
 2305 WDXD 105.9 PA Pittsburgh

9/3 Tr

0005 WIXQ 91.7 PA Millersville, calls, p
 0006 WBFO 88.7 NY Buffalo, calls
 0032 WOWQ 102.1 PA DuBois, k, "Q-102"
 0820 WPSU 91.5 PA State College, calls, wx
 0844 WCHX 105.5 PA Lewistown, ro, calls, ads, low volume
 0859 WJHT 107.9 PA Port Matilda, r, "Hot 107.9," local ref
 0911 WKMZ 95.9 MD Williamsport, rp, Kiss concert in Hagerstown ad

9/3 Tr

2330 WAMO 106.7 PA Beaver Falls, s, "#1 for hip hop and R&B, 106-7 Wham-O," never thought this would be possible through Hershey PA, but the Bolin phase box did the job!

9/5 Tr

1055 WMKX 105.5 PA Brookville, r, "Mega Rock," ad for Clarion PA

9/6 Tr

0915 WTSS 102.5 NY Buffalo, r, "Star 102.5," ads, strong at times

1030 WUBZ 105.9 PA Phillipsburg, rp, "The Buzz," local ref
 1055 WHCY 106.3 NJ Blirstown, r, "Max 106.3," ads
 2248 CBAF-1 102.3 NB Fredericton, FF talk, was only in weakly for about 2 minutes before WSUS Franklin NJ took over (which is also new)
 2359 WLOB 96.3 ME Rumford, t, ID into USA radio news, was in for a whole 7 minutes before fading away
 9/7 Tr
 0100 WOSR 91.7 NY Middletown, multi ID
 0106 WKJY 98.3 NY Hempstead, AC mx, Long Island mentions in promo
 9/8 Tr (associated with Hurricane Frances)
 0734 WCWI 94.3 PA Carbondale, ad for Wilkes-Barre
 0750 WGGI 95.9 PA Benton, k, "Froggy 101"
 0815 WSUL 98.3 NY Monticello, r, "95.7/98.3 SUL"
 0852 WAAL 99.1 NY Binghamton, r, "Classic rock 99.1 the Whale," ads
 0947 WFEZ 103.1 PA Avoca, rm, "WFEZ" jingle
 9/9 Tr
 0051 WKXZ 93.9 NY Norwich, r, "Today's best music, WKXZ"
 0122 WDNB 102.1 NY Jeffersonville, local nx
 0152 WPHR 106.9 NY Auburn, s
 0203 WKGB 92.5 NY Conklin, r, "KGB-FM"
 0800 WVOS 95.9 NY Liberty, AC, local ref



www.fmdxweb.com

ANOTHER BLAST FROM THE PAST!
 FROM RADIO'S MASTER, 19TH ED, YEAR UNKNOWN

CHANNEL MASTER CORP.

**the
CHAMPION**

Extraordinary power on VHF and UHF!

2-Bay array gives:

- 11-13 db High Band gain on VHF
- 6 1/2 - 7 1/2 db Low Band gain on VHF
- Excellent performance on UHF

Channel Master's CHAMPION is the first antenna to employ the "Tri-Pole," a unique new Broad Band dipole system, in which the Low Band dipole provides exceptional Low Band gain, and also functions as THREE half-wave dipoles tied together, in phase, on the Low Band. The result: spectacular gain on VHF, excellent performance on UHF.

Model No.	Description
325	Single-Bay
325-2	2-Bay
325-4	4-Bay

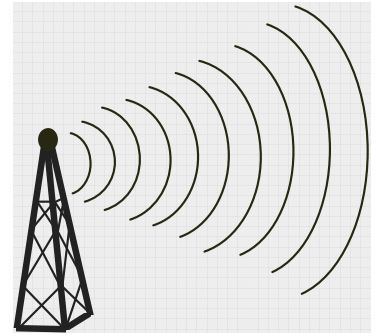
**the
SUPER CHAMP**

model no. 325-6

- Features wide-spaced "Tri-Pole" assemblies, and new connecting harness.
- Gives from 1 1/2 to 3 db MORE Low Band gain, and 1 db MORE High Band gain than the stacked CHAMPION, model no. 325-2.
- Provides extraordinary VHF-UHF reception at GREATER DISTANCES than has ever before been possible.

Conversion Kit
 model no. 325-7
 For converting stacked 2-Bay CHAMPIONS into Super Champs.

Northern FM DX



Keith McGinnis
6 Ritter Road, Hingham, MA 02043
longwave@comcast.net 781-875-1944

For Dxers in the following states: CT IA ID IL IN MA ME MI MN MT ND NE NH NJ NY OH OR PA RI SD VT WA WI WY and all of Canada. Please submit by the 10th of each month. If possible please submit in the formats shown Below.

EDITORS NOTE: PLEASE NOTE THAT ANY TYPEWRITTEN OR HANDWRITTEN REPORTS MIGHT BE DELAYED TILL A LATER ISSUE AS TIME PERMITS. ALSO PLEASE KEEP REPORTS AS RECENT AS POSSIBLE (THE LAST 3 MONTHS SHOULD WORK FINE). THANK YOU.

Jim Renfrew Byron NY

Equipment: Sansui TU-9900, Conrad RDS Manager, RDS Decoder 3.0, 20' tower, FM antenna

*** = new, # = new calls underline = since verified, % = new mode**

JUL 20 Tr

0009 *WUSE 93.9 Fairview PA "US", PI
 831D = WRDL (old call)
 2159 *WAWN 89.5 Franklin PA AFR

0040 *C???? 101.3 Toronto ON (Asian program)
 0145 *WNRK 90.7 Norwalk OH

AUG 4 Es

JUL 22 Ms

0818 *WDMS 100.7 Greenville MS PI
 5DDE (Ms RDS capture)
 1655 *CJTN 107.1 Trenton ON (first day on air)

1150 "CJBC" 98.7 Toronto ON (test)
 1900 *KCRL 90.3 Sunrise Beach MO
 "Bott R. Net."
 1902 *KZEG 94.7 Clinton IA

AUG 30

JUL 23 Tr

0019 *WKKV 100.7 Racine WI "V-100"
 (new state!)
 0320 *CBON 98.1 Sudbury ON // 106.3

2240 *WCCR 92.7 Clarion PA

AUG 31 Es

1650 *WRKF 89.3 Baton Rouge LA
 1654 UNID 89.3 AFR

JUL 24 Ms

1200 *WHKS 94.9 Port Allegheny PA
 1356 *WSLC 94.9 Roanoke VA
 PI 855D (Ms RDS capture)
 1642 WKSJ 94.9 Mobile AL PI FD0F "95
 KSJ" Ms RDS capture)
 1959 WGRC 91.3 Lewisburg PA

SEP 5

1300 WPDX 104.9 Clarksburg WV

SEP 7

0250 UNID 104.9 PI EEEE, "The Voice of Technology" (Ms RDS capture)

JUL 25 Tr

1840 *WPDX1 04.9 Clarksburg WV
 "Classic Country"
 1845 *WCVO 104.9 Gahanna OH "River"

Notes: I'm still reviewing tapes from July 4,5 and 6. What I submitted last month has been added to, with additional loggings from GA, SC, MS, NC, and TX. Now at least 165 new ones on those three days, taking me above the 1300 level. The 100.7 WI station is my furthest trop from Byron at 495 miles. The 94.9 is only my 2nd station from Virginia.

AUG 2

Saul Chernos 57 Berkeley St Toronto ON M5A 2W5
416-364-0725 schernos@sympatico.ca

Aug 1 Tr (TO – Snowball)

0720 *CHRW 94.9 London ON Old k/j (fits sked), Cdn, non-commercial

Aug 4 Tr (TO – Downtown)

0237 *.... 98.7 Toronto ON CJBC
testing to cover downtown; 205-8854

Aug 7 Tr (TO - 79 Ridge & area)

1504 CIUT 89.5 Toronto ON Radio Farda
(?) SCMO CHECK ???

Aug 8 Es (BR)

0838 WWRZ 98.3 Fort Meade FL 98.3 FM
The Rose (mere CCI on 2)
0840 WSJT 94.1 Lakeland FL Tampa
auto dealer ad, Tampa Bay area QTH

Aug 8 MS (BR)

1434 KLMP 97.9 Rapid City SD This is
KLMP (prev Es)
1500 KSEZ 97.9 Sioux City IA Z-98 in
contest promo (prev Es)

Aug 8 Tr (BR)

2311 WKNB 104.3 Clarendon PA Kinzua
Country WKNB (near Victoria Forest)

Aug 9 Tr (BR)

0004 CBEZ 107.7 Britt ON CBC Radio
One EE //98.7 et al

Aug 9 MS (BR)

0831 WBAM 98.9 Montgomery AL Bama
Country 98.9
2332 CHIK 98.9 Quebec City PQ French
talk (prev Tr)

Aug 10 MS (BR) (Perseids)

0022 KQRC 98.9 Leavenworth KS 98-9
The Rock
0045 WBAM 98.9 Montgomery AL 98.9
WBA-
0114 *WAFX 106.9 Suffolk VA The Fox ...
Classic
0130 KIHK 106.9 Rock Valley IA Hawk
Country 107 KIHK (prev Es)
0914 WBAM 98.9 Montgomery AL The All
New Bama Country 98.9
0938 KKZY 95.5 Bemidji MN 95.5 KKZY
(prev Es)
1010 *KFIX 96.9 Plainville KS Rock and
Roll Radio 96-9 KFIX
1505 KWGB 97.9 Colby KS RDS: KWGB
upon return (prev Es)
1542 KWGB 97.9 Colby KS RDS: KWGB
upon checking
1704 KDLO 96.9 Watertown SD RDS:
KDLO upon checking
1820 *KYEL 105.5 Danville AR Atkins Sch
Bd & Gary Simmons election news
2302 *CBAL 98.3 Moncton NB CBC
French news (//96.5)

Aug 11 MS (BR) (Perseids)

0200 KKPR 98.9 Kearney NE KPR
Kearney (first K in calls likely cut)
1525 CBW 98.3 Winnipeg MB Acadian
fiddle //90.7 1hr earlier (Prv Es)
1530 *KBBG 98.3 Boone IA Sean Hannity,
later Savage (lots!)(checks)

1542 UNID 98.3 Ad: Hartley State Bank
1658 WCQM 98.3 Park Falls WI Ad: Kia of
Duluth (checks, prev Au)
1755 UNID 98.3 I'm Xtn Burk pastr of
Familyview Bapt Ch
1825 KWGB 97.9 Colby KS RDS: KWGB
upon checking
1830 KBBN 98.3 Broken Bow NE RDS:
KBBG-FM upon checking (prev Es)
2155 KKOW 96.9 Pittsburgh KS Chanute
QTH, C&W at Foxtown City Limits
2243 KBBN 98.3 Broken Bow NE RDS:
KBBN-FM upon checking

Aug 12 MS (BR) (Perseids)

0047 KRIG 104.9 Nowata OK Calls (prev
Es)
0233 WMIT 106.9 Black Mtn NC 106-9
The Light (prev Tr)
0337 WSWT 106.9 Peoria IL Mention of
Lindsay's Lounge (prev Tr)
0426 WLLK 93.9 Burnside KY RDS:
WLLK upon checking
0430 UNID 106.9 B-106.9 jingle
0522 *WCCC 106.9 Hartford CT The Rock
106-9 WC-
1408 *WBJI 98.3 Blackduck MN Ad:
Keith's Pizza south store Nymore
1414 KYNU 98.3 Carrington ND Big Dog
Country 98.3, k
1453 KUQL 98.3 Wessingtn Sps SD Ad:
Winner Tru Value & Burke Tru Value
1629 KATR 98.3 Otis CO Carol's Chair
Boutique, Sterling (ph/add)
1633 KWGB 97.9 Colby KS RDS: KWGB
upon checking

Aug 13 MS (BR) (Perseids)

1242 KEZO 92.3 Omaha NE Visit any
one of our 8 Omaha locations
1610 KIAQ 96.9 Clarion IA RDS: KIAQ-
FM upon checking
1630 KUQL 98.3 Wessingtn Sps SD Ad:
Salem Auto Ctr in Salem SD
2119 KYNU 98.3 Carrington ND Buffalo &
Jamestown ads, Rte 281

Aug 15 MS (BR)

1603 WBJI 98.3 Blackduck MN Real
Country 98-3

Aug 21 Tr (BR)

0915 *WMRI 106.9 Marion IN Literock
106.9, Wabash Cty/Anderson ads

Aug 21 Es (BR)

2047 WLPT 88.3 Jesup GA RDS: WLPT
2050 WUFT 89.1 Gainesville FL African
music //90.1, dual ID @ 2057
2051 WJUF 90.1 Inverness FL African
music //89.1, dual ID @ 2057

Aug 22 MS (BR)

0946 UNID 97.9 Best ... (classics?) ... in
the Ozarks
1148 KLMP 97.9 Rapid City SD Here on
KLMP

Aug 22 Tr (BR)

2312 WSIP 98.9 Paintsville KY Area k
events, down home k (prev Au, MS)

2336 WGNA 107.7 Albany NY New Music
Nashville synd, ID

0727 KSOU 93.9 Sioux Center IA RDS:
KSOU upon checking

Aug 23 Tr (BR)

Aug 28 Tr (BR – East Hill)

0018 *WKPQ 105.3 Hornell NY Q-105 The
Quest

0701 *CHMY 96.1 Pembroke ON
Pembroke, White lake, Renfrew ads; pop
0710 CITE1 102.7 Sherbrooke PQ FF,
Rock Detente //107.3, 94.9
0734 *CFEI 106.5 Ste Hyacinthe PQ Calls,
pop, FF

Aug 23 Tr (TO – Bluffs)

Aug 31 Tr (TO – Bluffs) (CN Tower off)

0209 *WPGC 95.5 Morningside MD WPGC
95.5, urban
0211 *WDDBS 97.1 Sutton WV The Boss 97
FM, k
0215 WDDH 97.5 St. Mary's PA 97-5 The
Hound (and a brief dog pant)
0230 W??? 104.1 TG/Page 104 w/todays
best mx, playg 2day's best mx for all the northeastern
...ouette

0136 *WHWK 98.1 Binghamton NY98.1
The Hawk, k, Conklin ad, CHFI aux

Probably my slowest ever August for tropo. More FM Es
openings this month (2) than in June (1).

Aug 27 MS (BR)

**Doug Smith On the Road in the Upper Great Plains
My equipment: for all loggings, factory radio in 1998 Ford Escort.**

8/29 Ms

0845 WQPC 94.3 Prairie du Chien WI
Waukon, IA and Prairie du Chien ads 273 [4]
0900 KTCZ 97.1 Minneapolis MN Twin
Cities ads 243 [5]

1117 unID 94.7 ?? ?? "94.7 The
Twister" [1]

8/31 Ms

[1] My location: Dillon, Montana [2] My location: Hot
Springs, South Dakota [3] My location: Yankton, South
Dakota [4] My location: Jackson, Nebraska
[5] My location: South Sioux City, Nebraska
It seems every time I visit Nebraska, I log 250+-mile car
radio tropo
DX?! Sure wish I didn't have to work during the
convention!

1000 KSKK 94.7 Staples MN "...Staples,
Wadena..." 481 [2]

9/2 Tr

0810 KTTB 96.3 Glencoe MN "B-96",
Twin Cities 225 [3]

**Morris Sorensen Winnipeg MB
Equipment: GE Superadio 2 with Archer FM rabbit ears instead of my usual
Radio Shack DX-392 and it ran rings around the latter, although I missed the
digital display.**

Times below are CDT.

Sept. 1 Tr

0952 KQMN 91.5 Thief River Falls MN
fair battling CIWM Brandon MB with classical mx, wx for
Northeastern MN and Red River Valley, mentions of MN
Public Radio and Thief River Falls. Relog. 131 miles.
1148 KFBN 88.7 Fargo ND good with
"This is Faith 88.7. The time is 11:48." Into religion.
Relog. 209 miles.
1200 KKWQ 92.5 Warroad MN good with
ID ""KQ-92 is KKWQ Warroad- Northwest Angle-?".
Relog. 107 miles.
1710 KZCR 103.3 Fergus Falls MN fair
despite local on 103.1 with ads, "Z-103.3 The Heart of
Rock". NEW! 255 miles.
1855 KEYA 88.5 Belcourt ND fair with
country music. PSA from a local school mentioning that

they provide financial assistance to KEYA for programs
supporting local culture. Relog. 139 miles.
1955 KCDD 90.3 Moorhead MN fair with
wx. ID mentoning Moorhead- Fargo. Relog. 210 miles.
2000 KDSD 90.9 Pierpont SD fair
despite local on 91.1with classical mx. ID for SD Public
Broadcasting. Mention of sponsors in Sioux Falls and
Vermillion sponsors. Note: Sioux Falls also has a
transmitter on this frequency with SD Public Radio but
Pierpont is much closer. NEW! 306 miles.
2056 KNSR 88.9 St.Cloud MN fair with
NPR coverage of Republican Convention. Station break
at 2100 with wx and mentions of Central MN, St.
Benedict College and St. Cloud. NEW! 324 miles.
2137 KLZZ 103.7 S t. Cloud MN fair with
rock music, mentions of Central MN and 103.7. NEW!
329 miles.
2158 KPHR 106.3 Ortonville MN fair with
rock music and ID "Power 106.3 is KPHR Ortonville-
Millbank-Watertown". Relog. 319 miles.

Adam Rivers – 37 Carlton Ave. – Chicopee, MA. 01020

Redsoxdxer417@hotmail.com

*** are new**

7/4 Es

1300	*WUWF	88.1	Pensacola	FL	legal ID, in for a few hours
1308	*WOOF	99.7	Dothan	AL	Dothan temp and 99-7 Woof FM
1312	*WYCT	98.7	Pensacola	FL	Cat Country 98-7
1315	*WYSR	101.5	Quincy	FL	Papa Roach "Last Resort", X101.5
1319	*WFCT	105.5	Apalachicola	FL	wx, classical mx, ads for Pt. St. Joe
1324	*WRDO	96.9	Fitzgerald	GA	promo for morning show on 96.9 WRDO
1329	*WOCY	106.5	Carabelle	FL	Oyster Country isn't a station, it's a way of life
1336	*WAKT	105.5	Callaway	FL	Cat Country 103.5
1340	WFBX	94.5	Parker	FL	The new 94.5 FM the Fox
1344	*WQSY	103.9	Hawkinsville	GA	Sunny 103.9
1347	WKSM	99.5	Ft Walton Beach	FL	99 Rock, Seether/Amy Lee "Broken"
1349	*WQVE	105.5	Camilla	GA	V105 with Tom Joyner in the Morning
1350	WNUQ	101.7	Albany	GA	Albany's Q101, Rick Dees
1353	*WAIB	103.1	Tallahassee	FL	country, B103
1400	*WFSW	89.1	Panama City	FL	legal ID
1401	WIOL	92.7	Eufaula	AL	legal ID
1405	*WGSY	100.1	Phenix City	AL	Sunny 100's Totally 80s weekend
1410	*WISK	98.7	Americus	GA	Braves baseball on 98-7 WISK
1413	WCKW	92.3	La Place	LA	for continous lite rock favorites, lite 92.3
1416	WEBZ	93.5	Port St. Joe	FL	93-5 The Beat
1422	*WTVY	95.5	Dothan	AL	country, 95-5 WTVY
1424	WESP	102.5	Dothan	AL	Rock 102-5
1430	WDJR	96.9	Enterprise	AL	RDS: CNTRY969
1433	WMGB	95.1	Montezuma	GA	Mario Winans "I Don't Wanna Know", B95.1
1438	*KYKC	100.1	Byng	OK	wx on KYKC
1454	WLWI	92.3	Montgomery	AL	series of ads for Motngomery area
1506	*WSB	98.5	Atlanta	GA	B98.5FM Train "Drops Of Jupiter"
1507	WSTR	94.1	Symrna	GA	Star 94 Evanescence "My Immortal"
1511	*KIYS	101.9	Jonesboro	AR	101.9 Kiss FM, Avril Lavigne "Sk8er Boi"
1520	KHPQ	92.1	Clinton	AR	wx; ad for khpq.com

7/5 Tr

0020					– new RDS on WFRS "WFRS", and WNEW "MIX 102.7"
0037	WRAT	95.9	Point Pleasant	NJ	rare; The Rat
0044	WFPG	96.9	Atlantic City	NJ	96.9 WFPG – locallike, rare

7/5 Es

1200	WDJR	96.9	Enterprise	AL	RDS: "CNTRY969" <Note 1>
1200	WLWI	92.3	Montgomery	AL	I92 WLWI jingle <Note 1>
1200	WOOF	99.7	Dothan	AL	99.7 Woof FM <Note 1>
1200	WMGB	95.1	Montezuma	GA	B95.1 <note 1>
1532	*ZBM	89.1	Hamilton	Bermuda	<note 2>
1539	*WDEF	92.3	Chattanooga	TN	Sunny 92.3 welcomes Dora the Explorer
1543	*WMNC	92.1	Morganton	NC	temp in Morganton, Big Dog 92.1
1545	*VSB	106.1	Hamilton	Bermuda	<note 3>
1550	WSSJ	92.3	Hinesville	GA	Smooth Jazz 92.3
1551	*WIXV	95.5	Savannah	GA	Cumulus of Savannah ad
1553	*WORG	100.3	Elloree	SC	calls
1554	*WBBQ	104.3	Augusta	GA	kickin' off 25 mins of music on 104.3 WBBQ
1646	*CJSD	94.3	Thunder Bay	ON	Thunder Bay's Best Rock, Rock 94
1653	*CBQT	88.3	Thunder Bay	ON	CBC Radio One English local ments
1659	*WJPD	92.3	Ishpeming	MI	Big Country 92.3 WJPD
1832	UNID	90.9		MN	Public Radio
1835	*CBQ	101.7	Thunder Bay	ON	CBC English

7/6 Es <Note 4>

1107	WTVY	95.5	Dothan	AL	country mx, 95.5 WTVY
1108	*WXBM	102.7	Milton	FL	Today's Best + Most Ctry, 102.7 WXBM
1109	*WAKH	105.7	McComb	MS	K106, Country Idol sweepstakes
1110	*WMXS	103.3	Montgomery	AL	Mix 103
1112	WKGR	98.7	Ft. Pierce	FL	98.7 FM The Gator
1114	*WQLD	104.3	Luverne	AL	Cool 104
1115	*WASJ	105.1	Panama City Bch	FL	Smooth Jazz 105.1
1117	*WUSJ	96.3	Jackson	MS	Countrys latest and all time greatest US96.3
1119	WRBQ	104.7	Tampa	FL	local ads

1119	WXXL	106.7	Orlando	FL	Linkin Park "Numb" XL106.7
1120	WRAX	107.7	Birmingham	AL	The New rock alternative 107-7 The X
1123	*WOKK	97.1	Meridian	MS	97OKK
1128	*WMBX	102.3	Jensen Beach	FL	X102.3, always blazin 18 jams In a row
1130	*WPCV	97.5	Winter Haven	FL	97 Country WPCV
1137	*WMXU	106.1	Starkville	MS	golden triangle, Mix 106.1
1139	*WYYW	95.1	Marion	MS	Classic Country 95.1
1143	*WLSM	107.1	Louisville	MS	Star 107
1146	UNID	100.1			?? 102.1 The Beat, Usher "Burn"
1147	*WTUG	92.9	Tuscaloosa	AL	WTUG, Today's R&B and Old School
1148	*WTXT	98.1	Fayette	AL	98TXT
1150	WLAY	100.3	Tuscumbia	AL	wx, calls
1153	*KJLO	104.1	Monroe	LA	K104, wx, Country
1200	*WAFR	88.3	Tupelo	MS	RDS: "WAFR"
1203	*WQJQ	105.1	Kosciusko	MS	Q105.1 superhits of 60s and 70s
1204	WTCD	96.9	Indianola	MS	RDS: "SUPRTALK"
1205	*WSYE	93.3	Houston	MS	Enrique Iglesias "Be With You", Sunny 93.3
1212	WJMI	99.7	Jackson	MS	This is 99 Jamz
1213	*WZYP	104.3	Athens	AL	Todays Best Music, 104.3 ZYP
1216	*WKDF	103.3	Nashville	TN	103 WKDF Country
1218	*WZLQ	98.5	Tupelo	MS	98.5 ZLQ with Scott Kelly in The Morning
1222	*KJMS	101.1	Memphis	TN	V101.1 w/Tom Joyner in the AM
1223	*WYNU	92.3	Milan	TN	Jacksons Rock Station, Rock 92-3
1224	KIPR	92.3	Pine Bluff	AR	Power 92 Jamz
1224	WZBQ	94.1	Carrollton	AL	94-1 ZBQ
1231	*WGNL	104.3	Greenwood	MS	Urban AC , WGNL
1236	*WWMS	97.5	Oxford	MS	Miss 98jingle
1241	*WQXB	100.1	Grenada	MS	bunch of ads, B100
1244	*WWZD	106.7	New Albany	MS	Wizard 106
1247	*WXRZ	94.3	Corinth	MS	Supertalk
1250	*WGRM	93.9	Greenwood	MS	Call letters; Gospel for..
1253	*WJDQ	101.3	Meridian	MS	Q101
1254	WSM	95.5	Nashville	TN	95.5 WSM FM , Craig Morgan instudio guest
1256	*WKWX	93.5	Savannah	TN	calls
1308	*WMFS	92.9	Bartlett	TN	This is 93X
1317	*WDDJ	96.9	Paducah	KY	<note 5>, today's hottest music Electric 96.9
1322	WNFB	94.3	Lake City	FL	WNFB Mix 94.3
1329	*WASL	100.1	Dyersburg	TN	Ads
1329	UNID	100.1			?? The All New Cool 100
1633	WEBZ	93.5	Port St Joe	FL	93-5 The Beat
1634	WNFB	94.3	Lake City	FL	Mix 94.3
1636	UNID	92.9			?? Oldies 92.9 (several)
1637	WSJT	94.1	Lakeland	FL	wx, WSJT clals
1637	UNID	94.3			?? Commerical Free Hip Hop & R&B, Power 94.3 (several)
1638	WPLA	93.3	Callahan	FL	The Planet Radio
1641	*WAAC	92.9	Valdosta	GA	92-9 Country
1647	*WTBT	103.5	Bradenton	FL	Thunder 103
1648	*WDUV	105.5	New Port Richey	FL	Tampa Bay's home for...
1659	*WTRS	102.3	Dunnellon	FL	Thunder Country Gainesville
1700	*WHHY	101.9	Montgomery	AL	Y102, The Beat of Montgomery
1701	*WGCO	98.3	Midway	GA	Oldies 98.3 Savannah
1705	*WMAX	105.3	Bowdoin	GA	Real Radio 105-3 ATL's Only FM talk station
1711	WJDQ	101.3	Meridian	MS	today's best music Q101
1730	*WMJJ	96.5	Birmingham	AL	Magic 96.5, traffic
1732	*WALR	104.1	LaGrange	GA	Kiss 104.1 Atlanta
1733	*WFCA	107.9	Ackerman	MS	WFCA FM 108
1735	WZZK	104.7	Birmingham	AL	WZZK , Chesney promo
1738	*WBHJ	95.7	Tuscaloosa	AL	95-7 Jamz
1746	WKSM	99.5	Fort Walton Beach	FL	99 Rock
1755	*WQEN	103.7	Gadsden	AL	103.7Q Misteeq "Scandalous"
1758	*WSTZ	106.7	Vicksburg	MS	Z106, Rock
1800	WUAL	91.5	Tuscaloosa	AL	legal ID
1806	*WMSI	102.9	Jackson	MS	Todays Country and your all time favorites, Jackson wx
1818	*KGMO	100.7	Cape Girardeau	MO	KGMO , contest
1820	KEZK	102.5	St. Louis	MO	STL traffic
1822	*WVRV	101.1	East St Louis	IL	STL Traffic, Hoobastank "The Reason"
1827	KJEZ	95.5	Poplar Bluff	MO	Classics 95.5
1833	KPNT	105.7	Ste. Genevieve	MO	The Point
1841	*KLOU	103.3	St. Louis	MO	KLOU 103.3, wx
1848	*WRVW	107.5	Lebanon	TN	107.5 The River
1852	*WMAK	96.3	Murfreesboro	TN	Oldies 96.3 nashville
1854	*WRQQ	97.1	Goodlettsville	TN	Star 97, Nashville traffic
1903	*WHHM	107.7	Henderson	TN	Star 107-7, legal ID
1904	*KOLL	106.3	Lonoke	AR	The New Cool Oldies 106-3
1904	*WUHU	107.1	Smith's Grove	KY	Woo Hoo 107.1 FM
1909	*WMC	99.7	Memphis	TN	Todays Best Mix, FM100

1911	*KPBB	101.3	Pine Bluff	AR	Q Country
1925	*KDEW	97.3	DeWitt	AR	ads, Country 97.3
1933	WXFX	95.1	Prattville	AL	95-1 The Fox
1934	*KCXY	95.3	East Camden	AR	Y95, S. AR, station #750
1948	*WRVR	104.5	Memphis	TN	104 The River
1951	WZYP	104.3	Athens	AL	104-3 ZYP
1956	*WKCN	99.3	Lumpkin	GA	Kissin' 99.3
1959	*WKNO	91.1	Memphis	TN	calls
2000	*WXVS	90.1	Waycross	GA	legal ID
2003	*KOMT	107.4	Mtn Home	AR	Calls, wx
2005	KKIX	103.9	Fayetteville	AR	Kix 104
2015	*KVMA	107.9	Magnolia	AR	<note 6>
2018	*WRBO	103.5	Como	MS	103.5 with The AM Soul Patrol
2027	*KQUL	102.7	Lake Ozark	MO	Oldies Radio Kool 102.7
2030	*KHKN	106.7	Benton	AR	Classic Country 106.7
2032	*KXXK	105.7	Knob Noster	MO	KXXK calls
2037	KMOD	97.5	Tulsa	OK	calls
2038	*KSYN	92.5	Joplin	MO	KSYN Kissin' 92.5, Nina Sky "Move Ya Body"
2041	KTSO	94.1	Okmulgee	OK	calls
2047	KZCH	96.3	Derby	KS	Channel 963, D12 "How Come"
2055	*KCIL	107.5	Houma	LA	AC (985), guarantee broadcasting, tri-parish
2059	*KESN	103.3	Allen	TX	ESPN 103.3
2111	KQXL	106.5	New Roads	LA	Q 106 dot 5 urban AC
2113	KSCS	96.3	Ft Worth	TX	calls
2122	*KTUX	98.9	Carthage	TX	modern rock the X
2126	*KRMD	101.1	Shreveport	LA	calls

7/9 Es

1144	WKSM	99.5	Ft Walton Beach	FL	99 Rock
1207	WCMQ	92.3	Hialeah	FL	SS
1208	WLDI	95.5	Ft Pierce	FL	Palm Beaches Hit Music Station Wild 95-5, in for over an hour
1226	*WMIB	103.5	Ft Lauderdale	FL	103-5 The Beat, Houston "I Like That"
1228	*WCNK	98.7	Key West	FL	98-7 The Conch
1232	WZZR	94.3	Riviera Beach	FL	Real Radio
1233	*WHYI	100.7	Ft Lauderdale	FL	Y100.7, Misteeq "Scandalous"
1236	*WPIK	102.5	Summerland Key	FL	The New Wave FM
1237	*WAVK	97.7	Marathon	FL	//102.5 "Wave FM"
1238	*WFLM	104.7	White City	FL	104.7 The Flame, playin' the hottest R&B
1240	*WLYF	101.5	Miami	FL	101.5 Lite FM jingle
1244	*WEAT	104.3	W Palm Beach	FL	Sunny 104.3
1248	*WOLL	105.5	Hobe Sound	FL	Kool 105.5
1249	*WSJZ	95.9	Sebastian	FL	Rockin' the coast, Pirate 95.9
1254	WGMX	94.3	Marathon	FL	Mix 94 WGMX
1257	WMBX	102.3	Jensen Beach	FL	X102.3
1259	*WMXJ	102.7	Pompano Beach	FL	Oldies Radio Magic 102.7
1308	*WCZR	101.7	Vero Beach	FL	Real Radio
2023	KZBK	96.9	Brookfield	MO	KZBK, Sattelite AC
2034	*KAAN	95.5	Bethany	MO	<note 7>
2042	KVOO	98.5	Tulsa	OK	KVOO 98.5, Priscilla's in Tulsa

8/4 Es

1521	KRNA	94.1	Iowa City	IA	calls
1523	*KZAT	95.5	Belle Plaine	IA	Z95, KZAT
1523	*WEZY	92.1	Racine	WI	Kenosha, Wisconsin ments.
1927	KIAQ	96.9	Clarion	IA	Hot Country K97

8/25 Tr

0135	*WPKE	96.1	Poughkeepsie	NY	96-1 and 99-3 Kiss FM
0146	*WSHK	105.3	Kittery	ME	105-3 The Shark, classic rock
0155	WBYY	98.7	Somersworth	NH	rare because of Keene and WNLC
0159	WCLZ	98.9	Brunswick	ME	the bob marley month on WCLZ Brunswick/Portland
2222	WQHQ	104.7	Ocean City	MD	Q105; Delilah; locallike for 3-4 hours
2223	WZBH	93.5	Georgetown	DE	93-5 The Beach
2301	WUSL	98.9	Philadelphia	PA	Power after hours on Philly's Power 99 FM
2302	WYSP	94.1	Philadelphia	PA	94WYSP
2304	*WPLY	100.3	Media	PA	Philly's New Rock, Y100 <Note 8>
2309	WMMR	93.3	Philadelphia	PA	93-3 MMR
2318	WKXW	101.5	Trenton	NJ	NJ101.5
2324	*WDAS	105.3	Philadelphia	PA	Soft R&B, Philly's Best R&B 105.3 WDAS-FM
2327	*WJJZ	106.1	Philadelphia	PA	smooth jazz WJJZ 106.1
2331	WSNI	104.5	Philadelphia	PA	strongest of them all, Sunny 104.5 w/ RDS
2333	*WOGL	98.1	Philadelphia	PA	98.1 WOGL, oldies
2347	WBEB	101.1	Philadelphia	PA	B101, Dido - White Flag

8/26 Tr

0002	*WIXM	97.3	Millville	NJ	Mix 97.3
0026	WKHI	107.5	Fruitland	MD	Lite Rock 107-5 and 103-5
0043	WTHK	94.5	Trenton	NJ	94-5 the hawk
0056	*WMWX	95.7	Philadelphia	PA	Mix 95.7, "Kiss Me" into "The Remedy", over local WKSS
0104	*WMGK	102.9	Philadelphia	PA	Philly's Most Classic Rock, 102-9 MGK, over local WDRC
0110	*WXTU	92.5	Philadelphia	PA	It's AfterMidnite on 92.5 XTU, over WWYZ
0157	WZBH	93.5	Georgetown	DE	93-5 The Beach
0200	*WOLC	102.5	Princess Anne	MD	legal ID; relig for over 2 hours before that

Well, we thought this season was gonna be bad. So much for that. Audio for most of these catches is available upon request to – redsoxdxer417@hotmail.com. Its pretty cool hearing your favorite song(s) "Move Ya Body", "Heaven", on stations from far away like this. WMC was logged again, but was never in log so new. WMC is the station that I heard that got me into DXing altogether. Hopefully I can QSL them this time around. This year is the first that my Hartford locals have been blown away by Es or tropo.

August 25-26 tropo: I listened to many of those stations the prior week while vacationing in the area. The only commercial Philly FMs I don't have now are 96.5, 103.9 and 106.9.....

<Note 1>: Using Durango's radio on the way back from the Holyoke Mall

<Note 2>: Today's Hits And Yesterday's Favorites American satellite network, help from several other DXers

<Note 3>: Mix 106 jingle into Bermuda news

<Note 4>: Awesome opening. So awesome that WKSS afternoon DJ emailed to ask me why he couldn't hear his own station in the studio.

<Note 5>: Kentucky, a new state. State #35 on FM

<Note 6>: Running continuous, confusing loop about how some station was moving to 99.1 and how something new was coming on this frequency. Calls given, however.

<Note 7>: Had a good chat with whoever was answering the phones at this station after the log. Couldn't believe I heard them in Massachusetts. Told me I got the record.

<Note 8>: Was shocked with a capital S to hear these guys.. especially since I just returned from vacation in the area and listened to them the whole time. Great station.

Harry Hayes - Wilkes-Barre, PA Equipment: Superadio II w/110khz filter, Bose Wave Radio, FM-6 in attic, Superadio II amplified, Bose Wave not

August 2 2004 Tr

0737	WDSY	107.9	Pittsburgh	PA	ID, "Y-108"
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August 4 2004 Tr

0825	WOXX	99.3	Franklin	PA	"The New Kiss FM 99.3 and 104.5" v/strong, replacing usual S. Williamsport
0835	WXKC	99.9	Erie	PA	"Classy 100", good
0845	WDDH	97.5	St. Marys	PA	Country music, NASCAR report

August 4 2004 Es

1920	KRCH	101.7	Rochester	MN	"Laser 101.7", call ID on hour
1921	KLCX	107.7	St. Charles	MN	"Oldies 107.7"
1923	KDOG	96.7	Mankato	MN	Call ID's
1925	KWWK	96.5	Rochester	MN	Easily o/semilocal Montrose, ID's country music.
1930	KWNO	99.3	Rushford	MN	"CD Country" and mention of Winona
1936	KAUS	99.9	Austin	MN	ID
1944	KXLS	104.7	Sioux Falls	SD	ID
1945	KKHG	107.9	Sioux Falls	SD	ID as "The Wolf", new call, perhaps?
1946	KWPN	107.9	West Point	NE	ID
1959	KXKK	92.5	Park Rapids	MN	ID, "Hot Country"
2000	WJJQ	92.5	Tomahawk	WI	ID, into CBS News, religious
2003	KBLB	93.3	Nisswa	MN	"B-93.3"
2004	KRVI	95.1	Detroit Lakes	MN	"The River"
2010	KBEK	95.5	Mora	MN	Several ID's

August 13 2003 MS

0838	KOMT	107.5	Mountain Home	AR	Ad for a monument company in Mountain Home (I'm still considering probable, not definite)
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August 22 2004 Tr

0000	WCIH	90.3	Elmira	PA	Call ID and "Family Life Network"
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2300	WQJU	107.1	Mifflintown	PA	ID as "Way Truth Life Radio" fair at times through rough WEZX-106.9 sideband,
	tentative				
2320	WEGW	107.5	Wheeling	WV	ID as "Eagle 107.5" good

August 24 2004 Tr

0741	WLIH	107.1	Whitneyville	PA	Bulletin Board and call ID,fair
2230	WBBS	104.7	Fulton	NY	"B-104.7" and country music

August 26 2004 Tr

0215	WAXQ	104.3	New York	NY	"Q-104" to strong level by 0250
0216	WSMJ	104.3	Baltimore	MD	"Smooth Jazz" replacing WAXQ briefly
2000	WVPS	107.9	Burlington	VT	Local like strength w/typical NPR stuff
2100	WAMC	90.3	Albany	NY	ID, fair to poor
2300	WQXR	96.3	New York	NY	Weak to fair w/Classical music

August 27 2004 Tr

0807	WBAI	99.5	New York	NY	W/pledges, weak to fair
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August 29 2004 Tr

0900	UNID	100.5			relaying WPGP Hamlin PA, seemed to be to x the east. A real mystery, not heard since.
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August 30 2004 Tr

0800	WOSR	91.7	Middletown	NY	Repeats WAMC Albany
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September 1 2004 Tr

0400	WSQC	91.7	Oneonta	NY	Coming up to loud level at times w/WSKG relay. My local tx of WPCS has been off but unfortunately, has returned since. It was nice hearing these old friends again.
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New York City is only about 125 air miles from here or so but reception of NYC FM stations as well as the low band TV stations that were also in on 8/26 is an extremely rare event in the valley here. I'm not complaining about trop so far, but some really long distance stuff would cap off this season nicely.

**Russ Edmunds Blue Bell, PA (360' ASL) [15 mi NNW of Philadelphia]
40:08:45N; 75:16:04W, Grid FN20ID<wb2bjh@yahoo.com>
Yamaha T-80 & APS9B @15'**

8/27 TR

1910	WGRQ	95.9	Colonial Beach VA		"Oldies 95.9", Beatles – been chasing this for some time! New. 165 mi
2115	WCEM	106.3	Cambridge MD	Current	Rock, "106.3 The Heat" – somehow never logged this before - usually buried by Ocean City in S/SE tropo - New. 116 mi
2153	WSFL	106.5	New Bern NC	Classic	rock, local event promo mixing w/ WIMX, WKHW - New. 370 mi

8/29 TR

1350	WFQX	99.3	Winchester VA	Classic	Rock, "The Fox" 182 mi
1610	WCBC	107.1	Keyser WV	Oldies,	"GTO" slogan - New. 195 mi

9/5 TR

1957	WAFY	103.1	Middletown MD	Promo	for events in Frederick and Hagerstown. New. 129 mi
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9/6 TR

???	WIVK t	107.7	Knoxville TN		unattended RDS PI: 6BF4 overnight; tropo earlier that night favored that direction. Tentative. 546 mi
1935	WSUS	102.3	Franklin NJ	D i	"Delilah" pgm 79 mi but rare
1955	WVOS	95.9	Liberty NY	Oldies	"The 60's at 7", ID 115 mi - rare
1957	WKCI	101.3	Hamden CT	Rock,	"KC-100" 150 mi
2006	WTSX	96.7	Port Jervis NY	"Fox	96.7, ID 89 mi but rare
2033	WLIR	107.1	Hampton Bays NY		Weather, promo, ID. New. 150 mi
2040	WEZF	92.9	Burlington VT	"You're	listening to Delilah on Star 2.9" - New; new state. 327 mi
2046	CBAF-1	102.3	St. John NB	opera,	French talk 587 mi – first station x rec'd via both ES & Tr (only 2 months apart!)
2107	WGNY	103.1	Newburgh NY	Orange	County mentions, ID New. 109 mi
2136	WHCN	105.9	Hartford CT	John Tesh;	"The River" New. 160 mi
2152	WSPK	104.7	Poughkeepsie NY		Event promo for Newburgh. New. 116 mi

Charles Gauthier, St-Lambert, PQ (45,5125N 73,5061W) tvfmdx@yahoo.ca
Equipment: Kenwood KT-6500 analog tuner (IF modified), Antennacraft
32 element VHF-UHF-FM antenna at 30' AG, CM9510A rotor, RG6 coax, RS
attenuator.

June 25 Es

1215	WRUL	97.3	Carmi	IL	Calls, ads for sending resumes to station	
1218	WTTS	92.3	Bloomington	IN	Calls	768
1242	WDCO	89.7	Cochran	GA	"GA public broadc."	1040
1259	WRAK	97.3	Bainbridge	GA	"Albany's Rock Alternative"	1155
1306	WNCW	88.7	Spindale	NC	Calls "Soundtrack of your life"	816
1309	WJSP	88.1	Warm Springs	GA	"GA public broadc."	1058
1310	WMSL	88.9	Athens	GA	Calls	959
1318	WSTR	94.1	Smyrna	GA	"Star 94"	993
1324	WPPR	88.3	Demorest	GA	"GA public broadc." //88.1	928

July 5 Es

1610	VSB	106.1	Hamilton	BER	"Mix 106" "Bermuda" mentioned	1022
1615	ZFB	94.9	Hamilton	BER	"Power 95"	1022
1625	ZBM	89.1	Hamilton	BER		1022

July26 Es

1300	WQCF	88.9	Fort Pierce	FL	Calls	1305
1301	WUCF	89.9	Orlando	FL	Calls	1242
1311	WAYF	88.1	West Palm Bch	FL	"Way FM"	1358
1320	WLDI	95.5	Fort Pierce	FL	"Wild 955"	1325
1327	WPBZ	103.1	Idiantown	FL	"The Buzz-Florida's new Rock altern"	1328
1341	WJRR	101.1	Cocoa Beach	FL	Calls "Real Rock"	1240
1352	WXXL	106.7	Tavares	FL	"XL"	1251
1359	WJCT	89.9	Jacksonville	FL	Calls	1138
1402	WMGF	107.7	Mount Dora	FL	"Majic 107.7-Light Rock/Less talk"1222	

July 27 Au

0159	tWPNE	89.3	Green Bay	WI	Possible Calls	711
0231	WAYV	95.1	Atlantic City	NJ	Calls heard multiple times	426
0411	CBCL	93.5	London	ON	CBC Radio One	426

July 29 Tr

0130	WOTT	100.7	Hendersonville	NY	"Real Rock"	173
0145	WAJZ	96.3	Albany	NY	"JAMZ 96.3"	200
0154	WGIX	95.3	Gouverneur	NY		123
0215	WFXF	95.1	Honeoye Falls	NY	"The Fox"	258

July 30 Tr

0224	CJPT	103.7	Brockville	ON	"BOB FM"	143
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August 20 Tr

2035	WXXI	91.5	Rochester	NY		260
2037	WRVO	89.9	Oswego	NY	Calls	208
2047	WVOR	100.5	Rochester	NY	"MIX 100.5" Local ads	258
2050	WRMM	101.3	Rochester	NY	"Warm 101.3"	262
2055	WMHR	102.9	Syracuse	NY	"Mars Hill Network" Religious	221
2109	WLKK	107.7	Wethersfield	NY	"The Lake"	310
2112	WFRW	88.1	Webster	NY	Religious- Family Radio Network	245
2234	WUMX	102.5	Rome	NY	"The new mix 102.5 "	

August 23 Tr

0137	WTSS	102.5	Buffalo	NY	"The best variety-star 102.5"	322
0205	WLKK	107.7	Wethersfield	NY	"The Lake"	310

August 24 Tr

2210	WEBK	105.3	Killington	VT	"The Peak" Yankees baseball	133
2322	WJEN	94.5	Rutland	VT	"Cat Country"	133

August 25 Tr

0142	WZLX	100.7	Boston	MA	Calls	250
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0223	WRCH	100.5	New Britain	CT	"Lite 100.5" Delilah Calls	265
2115	CFEL	102.1	Montmagny	QC	Expos Baseball - "Émotion Rock"	174
2128	CFIN	100.5	Lac Etchemin	QC	FF-Calls-	153

August 26 Tr

2115	WJFD	97.3	New Bedford	MA	Portugese mention of Brockton/MA/RI	298
2121	WCTK	98.1	New Bedford	MA	Calls	298
2214	WRZE	96.3	Nantucket	MA	"96-3 the Rose"	337

August 27 Tr

0034	WXLO	104.5	Fitchburgh	MA	"XLO"	224
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September 3 Tr

0215	WTKK	96.9	Boston	MA	"Talk 96.9 FM"	250
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September 5 Tr

2054	CJAB	94.5	Chicoutimi	QC	"Energie"	248
2109	CFEL	102.1	Montmagny	QC	Expos baseball	174
2124	CFOM	102.9	Lévis	QC	Calls	132
2159	CION- 2	106.7	Chicoutimi	QC	"Radio Galilée" religious	248
2300	WYKR	101.3	Haverhill	NH		122

The following were received numerous times so I'll list them as semi-regulars, completing the bandscan which appeared in the May VUD:

88.5	WVPA		St-Johnsbury	VT	Vermont Public Radio	102
88.7	WWPV		Colchester	VT		72
89.1	CFOU		Trois-Rivières	QC	UQTR campus radio	73
89.5	WSLU		Canton	NY	North Country PR	103
89.7	WGBH		Boston	MA		250
89.9	WCMD		Barre	VT	"The Light" Religious	108
90.1	WRUV		Burlington	VT		73
90.9	CBF13		St-Michel-Des-Saints	QC	SRC "Première chaine"	77
91.1	WTSC		Potsdam	NY		94
91.1	CBFX6		Mont-Laurier	QC	SRC Chaine culturelle	128
91.5	WGLY		Bolton	VT	Religious	84
90.9	CION		Quebec City	QC	Religious	132
92.1	WVTK		Port Henry	NY		103
92.3	CJET		Smith's Falls	ON	"Jack FM"	129
93.1	CKCU		Ottawa	ON		113
93.3	CJMF		Quebec City	QC	"FM Quatre-vingt-treize"	132
93.3	WCIZ		Watertown	NY		157
95.7	CKYQ		Plessisville	QC		99
96.3	WLOB		Rumford	ME	Newstalk WLOB	154
96.3	CFMK		Kingston	ON		171
96.7	WXZO		Willisboro	NY	Talk	77
96.7	WYSX		Moristown	NY		117
97.1	WZRT		Rutland	VT	"Kiss FM"	136
97.5	WFRY		Watertown	NY	"Froggy"	157
98.3	CFLY		Kingston	ON	"FLY FM"	170
98.1	WJJR		Rutland	VT		136
98.1	CHOI		Quebec City	QC	"X Rock FM"	132
98.9	CHIK		Quebec City	QC	"Radio Energie"	132
99.3	WSNN		Potsdam	NY		97
100.3	WKBE		Warrensburgh	NY	"Today's Rock-The Point"	145
100.5	WXXK		Lebanon	NH	"KIX FM"	141
100.9	WWFY		Berlin	VT	"Froggy"	108
100.9	CKNU		Donacona	QC		120
101.9	CJSS		Cornwall	ON		68
102.1	WCVR		Randolph	VT	"The Champ"	116
102.1	CBOF7		Brockville	ON	"SRC" "Premiere chaine"	119
102.9	WCLX		Westport	NY		89
102.9	WNCQ		Morristown	NY		103
104.3	WWOD		Hartford	VT	"Oldies 104"	140
104.7	CBVE		Quebec City	QC	"CBC RADIO ONE"	132
104.9	CHOC		St-Rémi	QC		18
105.3	CHRD		Drummondville	QC		54
105.5	WLPW		Lake Placid	NY		90
105.5	WKXH		St Johnsbury	VT		107
106.3	CBV		Quebec City	QC	SRC "la premiere chaine"	132
107.1	WORK		Barre	VT	"WORK FM"	106
107.5	CBCK		Kingston	ON	"CBC RADIO ONE"	168
107.5	CITF		Quebec City	QC	"Radio Rock Detente"	132
107.7	WGNA		Albany	NY		200

Ralph Strobel - I06 E Davidson St. - Muncie, IN 47303 - Equipment: McIntosh MR 78 FM Tuner with two CM Stereo Probe 9 antennas and rotors at 38 and 32 feet above ground separated by 23 feet with the use of Bolin Phase Box. *=new - RDS Unit - Number at end indicates mileage.

December 9 Ms (2003)

0356 *KVEE 107.5 Lake Arthur LA "...and in Sulphur, 24 hour drive thru service available at McDonalds on West..." (verified by phone) 811

December 20 tr

1900 *WSPV 90.5 Greencastle IN c, //89.1 WSPM 87

January 3 Ms (Quadrantids) (2004)

1061 KSJT 107.5 San Angelo TX previous Es, "...is 10-107-5 KSJT..." 1036

January 4 Ms

0049 KSMX 107.5 Clovis NM "...107.5. Here's good news for you from the Citizen's Bank of Clovis..." 1059
 0713 *KJKJ 107.5 Grand Forks ND "...You're tuned to KJ-108..." (verified by phone) 788

January 24 Ms

1135 KLDE 107.5 Lake Jackson TX "...Today celebrates the...day of the Mardi Graz in Galveston, and stick around for a chance to win tickets..from your oldies 107.5..." 960

January 30 Ms

0732 KOAI 107.5 Fort Worth TX "...wake up with the morning oasis..." 839

March 28 tr

0200 *WLZT 93.3 Ashville-Columbus OH, o, "Lite-FM" (ex-Chillicothe w/tower move)

May 10 tr

0200 *WGRL 93.9 Fishers-Indianapolis IN r (ex-Noblesville w/tower move) 36

May 12 Es

1958 KTEP 88.5 El Paso TX c 1316

May 14 Es

1329 KBBT 98.5 Schertz TX SAT, s, "The Beat" 1040
 1336 KBEY 92.5 Burnet TX k, "K-Bay 92-5" 973

May 28 Ms

0500 KXTN 107.5 San Antonio TX "...KXTN AM-FM San Antonio... (SID) 1050

June 7 Es

1401 KUVO 89.3 Denver CO nx 1040

June 20 Es

1430 KOEM 88.5 Mesquite TX r 807
 1445 KJBZ 92.7 Laredo TX SS, L 1193
 1449 KVET 98.1 Austin TX ads, "K-Vet" 978
 1453 KONO 101.1 Helotes TX ads 1038
 1455 KPEZ 102.3 Austin TX ads 978
 1503 XHEC 91.9 Sabinas CL SS 1240
 1506 XHMZI 91.1 Monclova CL SS 1306

Ju1y 2 Es

2000 KROM 92.9 San Antonio TX SS, L 1050
 2006 KRXT 98.5 Rockdale TX k 928

2102	XET	94.1	Monterrey	NL	SS, L 1325
2117	KZOR	94.1	Hobbs	NM	r 1216

Ju1y 4 Es

1125	WAYF	88.7	Fort Myers	FL	g, "Way-FM" 959
1137	WAVW	92.7	Stuart	FL	k, "Wave-92.7" 944
1142	WMIB	103.5	Fort Lauderdale	FL	s, "The Beat" 1018

July 5 Es

1540	*CBHB	106.7	Mulgrave	NS	"CBC Radio One" 1271
1554	CJXL	96.9	Moncton	NB	k, "XL-96.9" 1116
1557	CIEZ	96.5	Halifax	NS	op 1153
1613	WOZI	101.9	Presque Isle	ME	o 980
1632	*CJEC	91.9	Quebec	PQ	calls, FF 844

July 6 tr

0200	*WUDR	98.1	Dayton	OH	10 watts, ID 67
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July 6 Es

1639	WFPG	96.9	Atlantic City	NJ	previous ms, mr 584
1646	*WJRZ	100.1	Manahawkin	NJ	o 590
1650	WMGM	103.7	Atlantic City	NJ	previous ms, ads 584
1653	*WBYO	107.5	Boyertown	PA	g, ads 514
1703	*WPUR	107.3	Atlantic City	NJ	ads 584
1706	*WBZO	103.1	ay Shore	NY	r 639
1707	*WKXW	101.5	renton	NJ	"New Jersey-101.5" 561
1711	WCIB	101.9	Falmouth	MA	o, "Cool-102" 776
1713	*WKTU	103.5	Lake Success	NY	"KTU" 614
1715	*WXPX	107.1	Briarcliff Manor	NY	PSA, ads, "The Peak" 612
1720	WFCC	107.5	Chatham	MA	c 811
1724	WMJX	106.7	Boston	MA	ads 758
1725	*WFHN	107.1	Fairhaven	MA	"Fun-107" 763
1726	*WHCN	105.9	Hartford	CT	o, "The River," RDS 671
1730	WEEI	103.7	Westerly	RI	r 714
1734	*WHUD	100.7	Peekskill	NY	wx 605
1737	*WRZE	96.3	Nantucket	MA	r, "The Rose" 804
1743	WSNE	93.3	Taunton	MA	"Coast 93-3" 754
1745	*WPKT	90.5	Meriden	CT	CT wx, NPR 664
1752	*WDYL	101.1	Chester	VA	s, "Y-101" 470 (My first VA Es)
1800	*WYCS	91.5	Yorktown	VA	g, Oasis Network ID 521
1821	*WPNC	95.9	Plymouth	NC	r, ads 558
1823	WRHT	96.3	Morehead City	NC	s 555
1825	*WCTG	96.5	Chincoteague	VA	o 555
1829	*WJFK	106.7	Manassas	VA	calls 434
1853	WHRV	89.5	Norfolk	VA	previous ms, c 552
1859	*WHRO	90.3	Norfolk	VA	j 552
1931	KCSP	90.3	Casper	WY	g, "Pilgrim Radio" 1099

July 7 Es

1022	KDSR	101.1	Williston	ND	k 1058
1035	KCGM	95.7	Scobey	MT	ads 1153
1047	*KTHC	95.1	Sidney	MT	r, wx, ads 1069
1100	*KVCK	92.7	Wolf Point	MT	ads 1144
1107	KPPR	89.5	Williston	ND	c 1058

July 8 Es

1618	KMXB	94.1	Amarillo	TX	r, "Mix-94.1 962
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July 9 Es

0835	KXTN	107.5	San Antonio	TX	lk 1050
0840	KCJZ	106.7	Terrell Hills	TX	SAT, s 1047
0842	KONO	101.1	Helotes	TX	o 1038
0845	KKBQ	92.9	Pasadena	TX	k, "93-Q" 914
0851	KXYL	96.9	Brownwood	TX	mono t 960
0853	Unid	96.9			?? SS, "Radio Sensetera" (Where??)
0856	KQIS	102.1	Basile	LA	ads 784
0856	KUT	90.5	Austin	TX	c 978
0903	KPSM	99.3	Brownwood	TX	ads 960
0919	KLDE	107.5	Lake Jackson	TX	o 960
0923	KMJQ	102.1	Houston	TX	s 915
0925	KYZZ	100.1	San Angelo	TX	ads 1036

0943	KQUR	94.9	Laredo	TX	ads, "95-Cure" 1193
0959	*KAYK	88.5	Victoria	TX	g, AFR 1028
1002	KFRQ	94.5	Harlingen	TX	ads 1201
1013	*KXTM	107.7	Benavides	TX	SS calls, ads, L 1152
1020	*KIXS	107.9	Victoria	TX	k, ads, "Kicks-108," o/WTPH phased 1028
1024	*KOOO	106.3	Belton	TX	s, "B-106.3" 926
1026	KUSJ	105.5	Harker Heights	TX	k, "US-105" 933
1030	*XHVUN	104.3	Villa Union	CL	SS, "La Consentida" 1182
1035	KGSR	107.1	Bastrop-Austin	TX	p 969
1041	*KXCS	103.9	Cameron	TX	p, "The X" 917
1047	KDMX	102.9	Dallas	TX	ads 815
1049	*KSSM	103.1	Copperas	TX	ads, ID 941
1109	WRR	101.1	Dallas	TX	c 815
1113	KATX	97.7	Eastland	TX	k 921
1116	KZPS	92.5	Dallas	TX	ads 815
1120	KNEL	95.3	Brady	TX	ads 1002
1122	KTRD	96.3	Del Rio	TX	ads 1155
1137	KRYS	99.1	Corpus Christi	TX	ads 1098
1154	KEYI	103.5	San Marcos	TX	o 1006
1202	WRBH	90.3	Baton Rouge	LA	sm. j 752
1210	*KAPB	97.7	Marksville	LA	wx, ads 732
1215	KJHM	107.5	Lake Arthur	LA	previous ms, s, "107-Jamz" 811
1228	*WJFM	88.5	Baton Rouge	LA	g, fund raising 752
1232	*KOOJ	93.7	New Iberia	LA	r, ads 792
1237	KSMB	94.5	Lafayette	LA	ads 783
1242	KZMZ	96.9	Alexandria	LA	rp 731
1245	KMD1	97.3	Kaplan	LA	k, "97-3 The Dog" 804
1252	*KFTE	96.5	Breaux Bridge	LA	pr, "Planet Radio 96.5" 778
1256	KYKR	95.1	Beaumont	TX	k, "Kicker-95.1" 854
1300	*WATU	89.3	Port Gibson	MS	g 648
1300	*WRKF	89.3	Baton Rouge	LA	c 752
1306	KHLA	92.9	Jennings	LA	o, "LA-92-9" 802

July 13 tr

0110	*KMEM	100.5	Memphis	MO	k, o/WWKI phased 358
0239	KIAI	93.9	Mason City	IA	k, "The Country Moose" 453
0251	WMGN	98.1	Madison	WI	r 287
0328	WJOD	103.3	Asbury	IA	k, o/WRZX phased 322
0343	KWWK	96.5	Rocheste	MN	r, k, o/WAZY phased 451
1000	*WTLX	100.5	Columbus	WI	t, "The X" o/WKKI phased 288
1200	KLJC	88.5	Kansas City	MO	g 495
1207	*KZPL	97.3	Lees Summit	MO	r, o/WMEE phased 490

July 31 Ms

0408	KSJT	107.5	San Angelo	TX	"...KSJT..." SS 1036
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August 4 Es

1750	CJXL	96.9	Moncton	NB	k, "XL-96.9" 1116
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August 26 Ms

1641	Unid	107.5			?? ? "...and lows near 79 in Greenfield..."
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August 31 Es

1600-1710					All French Canada to top - No ID'd given
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A very poor June for Es, but July was a bit better. Getting skip to PA NY & VA is rare here. I was in Bloomington, MN in August and missed the meteor showers. 73 - Ralph

John Ebeling Bloomington MN Equipment: Pioneer TX 9500 IF Modified Tuner with a Stereo Probe 9 at 25 ft AGL.

August 4, 2004 Es & Tr

1802	WBZC	88.9	Pemberton	NJ	'Z88.9 FM' 1088 miles
1809	WXTK	95.1	West Yarmouth	MA	1182
1810	WYBC	94.3	New Hav	CT	1810
1816	WNYC	93.9	New York City	NY	classical 1019
1822	WJFD	97.3	New Bedford	MA	1148
1824	WEZN	99.9	Bridgeport	CT	'star 99.9' 1048

1831	WKNC	88.1	Raleigh	NC	(RDS ID) 994
1833	WXRK	92.3	New York City	NY	'k-rock' 1019
1900	WYNW	92.9	Birnamwood	WI	201

August 21 Tr

2340	KMKL	90.3	North Branch	MN	(Thru local KFAI) 'K-love'
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August 24 Tr

0958	KLLZ	99.1	Walker	MN	(long wanted logging) 168
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August 25 Tr

1027	K232BC	94.3	Mankato	MN	(250W KTIS xltr) 57
1033	K252DM	98.3	Austin	MN	(250W KJLY xltr) 82
1035	K231AC	94.1	New Ulm	MN	(KJLY xltr) 67

September 8 Tr

2353	KLQP	92.1	Madison	MN	141
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September 9 Tr

0006	KJOE	106.1	Slayton	MN	134
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September 10 Tr

1055	K299AL	107.7	Albert Lea	MN	(KTIS xltr) 82
1100	KLZR	105.9	Lawrence	KS	'lazer' 417
1111	KEFM	96.1	Omaha	NE	280
1115	KHCD	89.5	Salina	KS	'radio Kansas' 470
1125	KSOM	96.5	Audubon	IA	

That's it from home. I have some more at the cabin, but the records are up there & will have to wait.

Keith McGinnis Hingham MA Equipment: Modified Yamaha T-85 with an APS 9B 15 ft AGL and the Conrad RDS Manager and associated software.

Times are EDT. All are NEW!

May 20 Tr

2336	WSPK	104.7	Poughkeepsie	NY	CHR with local ads
2336	WZBG	97.3	Litchfield	CT	soft ac local ads and ID
2338	WPUR	107.3	Atlantic City	NJ	c/w
2342	WMGM	103.7	Wildwood	NJ	cl rock local mentions

May 19 Ms

2344	WEPC	88.5	Belton	SC	A6C0 PI Code RDS
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May 20 Ms

1921	WERN	88.7	Madison	WI	A6FF PI Code long 30 second burst with RDS
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July 4 Es

1207	WXFX	95.1	Pratteville	AL	rock, Womtampka Hwy.....95.1 The Fox
1301	KKLV	94.7	Turrel Network	AR	relig heard ID for W213AV part of KLOV
1311	WTIX	94.3	Galliano	LA	oldies with ID
1325	WJAD	103.5	Leesburg	GA	rock "Rock 103"
1340	WQXZ	98.3	Cordele	GA	oldies "Oldies Radio"
1349	WYCT	98.7	Pensacola	FL	cw Cordova Dental Ctr / WPMI mentions
1413	WOSM	103.1	Ocean Springs	MS	south gospel, local ads..Mobile Mentions
1415	WANZ	100.5	Northport	AL	Modern rock, 5613 PI Code RDS
1419	WJXN	100.9	Utica	MS	urban ac "Magic 100.9 Jackson's R&B sta"

July 5 Es

1147	WZZR	94.3	Riviera Beach	FL	Talk, Mentions of Ft Pierce and Port St Lucy
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1200	WMVV	90.7	Griffin	GA	relig "New Life Radio"
1214	WRAX	107.7	Birmingham	AL	Rock "The X"
1540	WOGG	94.9	Oliver	PA	cw Fayette County mentions...PA council x of.."
1546	WMAK	96.3	Murfreesboro	TN	oldies "Oldies 96.3" 50s oldies
1548	WDOD	96.5	Chattanooga	TN	Adult Alt "The Mountain"
1534	WAEZ	94.9	Greeneville	TN	mod ac "today's hottest music..."
1554	WIVK	107.7	Knoxville	TN	cw, 6BFY PI Code RDS
1558	WQSD	107.1	Briarcliffe Acres	SC	cl rock, Myrtle Beach mentions
1604	WGNR	97.9	Anderson	IN	xtn music // to web stream
1612	WOMC	104.3	Detroit	MI	oldies, Jerome Dutton Theater "Oldies 104.3"
1621	WYHT	105.3	Columbus	OH	Hot AC 94D1 PI Code RDS "Rock n Ribs" "No Central State"
1630	WKOA	105.3	Lafayette	IN	cw, 447-4900 Allstate agent Dave Boteau
1633	WOLX	94.9	Baraboo	WI	oldies, Hellenbrand Water Ctr ..First Federal
1639	WPFF	90.5	Sturgeon Bay	WI	Contemporary Xtan, 7CCB PI Code RDS
1643	WSFQ	96.3	Peshtigo	WI	oldies
1647	WMXG	106.3	Stephenson	WI	Hot AC Marquette Mentions
1652	WIHC	97.9	Newberry	MI	cl rock, Led Zep // to 98.1 Rock N Roll rush hr
1654	WGFN	98.1	Glen Arbor	MI	cl rock, // to 97.9 same day
1656	WGLI	98.7	Hancock	MI	rock ID
1705	CJQM	104.3	Sault Ste Marie	ON	cw, local ads and North Bay weather
1705	WVCN	104.3	Baraga	MI	rel, radio play
1710	CHAS	100.5	Sault Ste Marie	ON	AC "100.5 Easy Rock"
1721	WKMJ	93.5	Hancock	MI	Hot AC "Drive 5"...Calumet ads
1739	CBQT	88.3	Thunder Bay	ON	CBC CBC Northern Ontario Summer North
1757	CJLB	105.3	Thunder Bay	ON	CHR urban local mentions
1900	KCRB	88.5	Bemidji	MN	MPR ID

July 6 Es

1711	WOLL	105.5	Jupiter	FL	oldies "Kool 105.5"
1714	WFXX	107.7	Georgiana	AL	ac, ABC sat prog slogan
1722	WMXS	103.3	Montgomery	AL	ac, Simple Minds tearing up local WODS "Mix 103.3"
1726	WVRK	102.9	Columbus	GA	rock
1730	WHHY	101.9	Montgomery	AL	CHR "Y102 Beat of Montgomery"
1737	WGYL	93.7	Vero Beach	FL	soft ac...Consolidated credit counseling serv
1800	WSLY	104.9	York	AL	Urban "Serving the Twin State SLY"
1813	WKSM	99.5	Ft Walton Beach	FL	rock Florida mentions "Rock 99"
1830	WJTG	91.3	Ft Valley	GA	relig, 170D PI Code RDS
1831	WUWF	88.1	Pensacola	FL	NPR, Destin mentions
1906	WHRK	97.1	Memphis	TN	Urban, Clearbrook Athletics K97M
1908	KDEW	97.3	DeWitt	AR	cw, local ads & "County 97.3"
1929	WMAW	88.1	Meridian	MS	NPR75EB PI Code RDS for WMPN
1956	WGNL	104.3	Greenwood	MS	Urban, local mentions ID
2021	WMPR	90.1	Jackson	MS	NPR, MPR..."Times Winding down...."
2025	KZRB	103.5	New Boston	TX	Urban (First Texas station!!!)
2033	KLMZ	104.3	Fouke	AR	Cont Xtan "Listener supported K-Love"
2047	KDVE	103.1	Pittsburg	TX	cw, Quicken Loans..."The Ranch"
2057	KWKK	100.9	Russellville	AR	soft ac "Soft Hits"
2110	WQNZ	95.1	Natchez	MS	cw, per Jeff Lehmann

July 9 Es

2002	KTBJ	89.3	Festus	MO	relig, "Calvary.....Netwk"...St Louis ment
2017	KNEN	94.7	Norfolk	NE	Husker football talk
2022	KAMO	94.3	Rogers	MO	cw, NW Arkansas best Honkytonk

July 27 Tr

1818	WQCB	106.5	Brewer	ME	c/w
1831	WUBB	95.3	York Center	ME	cw
2026	CBZ	101.5	Fredrickton	NB	CBC CBC programming

September 5 Tr

1525	WWFY	100.9	Berlin	VT	c/w "Jumpin Country Froggy 100.9"
2240	WKCG	101.3	Augusta	ME	soft ac "Star 101"..Delilah..local ads ID
1835	CBAL	88.1	Frederickton	NB	FF talk and music

September 6 Tr

1911	CHSJ	94.1	St John	NB	CW "Country 94"
1936	CKWM	94.9	Kentville	NS	AC "Magic 94.9"
2000	CBHM	106.5	Middleton	NS	CBC "Martime weather then news"
2019	CBCT	96.1	Charletown	PEI	CBC // to 106.5 and others.
2051	CBAX	91.5	Halifax	NS	CBC FF Strong classical // to 88.1

2102	CBA	95.5	Moncton	NB	CBC R1	CBC news for Maritimes
2126	CJRW	102.1	Summerside	PEI	c/w	"Today's Best Country C102"
2137	CBHL	97.1	Liverpool	NS	CBC //	to 106.5 etal
2141	CKBW	98.1	Bridgewater	NS	rock ID	local ads etc
2145	CBAL	98.3	Moncton	NB	CBC FF	classical
2203	CBCH	104.7	Charlottetown	PEI	CBC R1	under The Rocket...with news
2214	CIBX	106.9	Moncton	NB	ac	"Capital FM"
2220	CBAF	88.5	Moncton	NB	CBC FF	talk
2237	CBH-2	103.1	Mulgrave	NS	CBC R2	// to 102.7
2334	CFQM	103.9	Moncton	NB	AC	"Magic 104" Moncton mentions
2346	CBAF6	107.5	Middleton	NS	CBC FF	talk
2353	CBAF10	88.7	New Glasgow	NS	CBC FF	// to 88.5, 102.3 and others

Frank W. Merrill Macomb IL
Mobile Dxng on the Great Plains after the WTFDA Convention. All times are CDT
and distances are an estimate. Equipment: Factory AM-FM Cassette unit in a
2001 Dodge Van.

August 2 Tr/Trs

Near Broken Arrow NE
1230 KKCK 99.7 Marshall MN 270

At Almeida NE
1254 KLSS 106.1 Mason City IA 340

In eastern Blaine County
1306 Unid 93.3 "legendary K, US 93-3"
(editor's note: Has to be KHUS Bennington NE)
1310 KBVU 97.5 Alta IA 230 (Class A)
1314 Unid 100.7 oldies punched thru
KGBI (E's?)

In central Blaine County
1320 KSTZ 102.5 Des Moines IA (full
quieting) 340

At Dunning NE
1322 KBEQ 104.3 Kansas City MO 310
1322 KCHE 92.1 Cherokee IA 245 (Class
A)

In far sw Custer County NE
1415 Unids 106.9 2 stations? "#1 for new
country" and "oldies 106.9"

In western Logan County NE
1505 KEMB 100.1 Emmetsburg IA 340
(ed note 100000 Watts lists this KDWD)

At Tryon NE
1526 Unid 106.3 "Light rock, My 106.3"
(ed note this looks to be KLMY Lincoln NE)

Near se Garden County NE
1631 KSEZ 97.9 Sioux City IA 300 in
and out with Wichita

August 3 Tr/Trs

10 miles north of Tusk WY
1003 KEXL 106.7 Norfolk NE 375
1010 Unid 105.5 "105.5 Jack FM" (ed
note..should be KJAC Timnath CO)
1027 Unid 99.5 KRKI? Oldies?

At Newcastle WY
1105 KNEB 94.1 Scottsbluff NE 175 ad
for Gering Bakery your certified master baker

At Miles City MT
1800 various Billings MT stations

Mike Bugaj, 69 Sherman Road, Enfield, CT 06082. All heard using a Carver TX-11
tuner with an APS-13 on the roof about 30'agl. Conrad RDS Manager.

7-4 Es					1352	WLMG	101.9	LA	New Orleans, RDS 72F2, magic
1245	WBLX	92.9	AL	Mobile, 93BLX	1354	KKLK	103.7	IA	Clear Lake 103.7 thefox
1254	WCKW	92.3	LA	LaPlace, Lite 92.3	1357	WCSN	105.7	AL	Orange Beach, Sunny105.7
1256	WTNT	94.9	FL	Tallahassee, AM Cntry countdown	1410	WEBZ	93.5	FL	Pt.St.Joe the Beat
1302	WZEW	92.1	AL	Fairhope, 92-Zoo	1418	WBFZ	105.3	AL	Selma
1305	WDJR	96.9	AL	Enterprise 5D8F CNTRY969 RDS	1427	WYCT	98.7	FL	Pensacola, cat country
1305	Unid	97.7		Mexican music	1431	WTOT	101.7	FL	Graceville Letstalk101.7
1307	WTKE	98.1	FL	Holt Sportsradio, the Ticket	1434	WOOF	99.7	AL	Dothan, calls, wx
1316	WFMF	102.5	LA	Baton Rouge, calls	1436	WLWI	92.3	AL	Montgomery, wlwi.com
1322	WFLZ	93.3	FL	Tampa, the power pig	1437	WMMK	92.1	FL	Destin
1324	KNOU	104.5	LA	Empire, hot 104.5	1443	WIOL	92.7	AL	Eufaula, the river
1324	WKZN	105.3	LA	Kenner, the Zone	1445	KMSX	94.9	AR	Maumelle, mix 94.9 RDS uses 3621 which is the old KOLL calls.
1330	WEZB	97.1	LA	New Orleans RDS 61C3 B97	1452	WZGC	92.9	GA	Atlanta RDS 974A Z93 never heard this station so much until this year.
1335	WTKX	101.5	FL	Tallahassee, TK101	1512	WIL	92.3	MO	St. Louis, baseball
1337	WAKT	103.5	FL	Calloway, Cat Country	1520	WSTR	94.1	GA	Smyrna, star 94
1339	WYYX	97.7	FL	Bonifly, pure rock 97X	1525	WVFJ	93.3	GA	Manchester, J93.3
1341	WDLT	98.3	AL	Chikasaw, jazz	1527	WLTM	94.9	GA	Atlanta RDS 73AE 94.9LITE
1343	WKSM	99.5	FL	Ft.Walton Beach 99rock					
1343	WRNO	99.5	LA	New Orleans, RDS 6765 99.5WRNO					
1347	WNOE	101.1	LA	New Orleans, country	7/5 Es				

Send your logs to mikb46@yahoo.com or PO Box 501 Somersville, CT 06072

JOHN EBELING, BLOOMINGTON MN

On June 29th, tropo was really hot and I received the following on my Radio Shack Model 12-247 WX receiver using only the built in antenna. My newer radio used at home in Bloomington has the SAME feature.

KZZ29	162.400	Grand Rapids, MN (a 'local')
KZZ45	.475	Virginia, MN
KZZ84	.450	Aitkin, MN
KXI44	.500	Ely, MN
WNG630	.425	Finland, MN
KZZ78	.525	Ashland, WI
KIG64	.550	Duluth, MN (a 'local')
WXK45	.550	International Falls, MN

Duluth quite often suffers interference from the International Falls station, even though Duluth is only about 30 miles from the cabin.

CHARLES GAUTHIER, ST LAMBERT, QC
(45°30'45"N - 73°30'22"W)

Equipment: Realistic PRO35 handheld scanner, Antennacraft 32 element VHF-UHF-FM antenna at 30' AG, CM9510A rotor, RG6 coax. Time is EDT

July 6, 2004 Es

1935 unID 162.425 GA Hourly weather round-up, cities in GA, etc.
 1940 unID 162.450 GA Same as above
 1945 KIH63 162.475 FL Orlando Legal ID: calls, frequency, city. 1245 miles
 1000 watts, programming originates from Melbourne, FL

July 29, 2004 Tr

0200 VAF-367 162.475 QC Mt. Tremblant 70
 0330 KZZ-41 162.500 NH Mt.Washington 138
 Comments:

I had just woken up from a nap at around 1900 and thanks to tips from Steve Solomon, Bill Nollman and Mike Bugaj about Channel 7 E-skip, I immediately turned on the TV and scanner.

While I was getting heavy CCI over CHLT-7, NWS stations were 4 or 5 deep on about every frequencies in the WX band. Took

a while before being able to get something clear out of the mess. I kept hearing weather tone alerts during most of the event! This is the second time in my NWS Dxr's life that I've been able to hear KIH63; the first time was via tropo while vacationing in Myrtle Beach SC (383 miles) on July 17, 1988 on a Realistic 12-141 Weatheradio!!

Distance was calculated from coordinates found on a NOAA station listing print out sent by Matt Sittel a few years back (Thanks Matt!). I guess coordinates are still valid.

Eric Bueneman (N0UIH), 631 Coachway Lane, Hazelwood, MO 63042-1347
E-mail: N0UIHEric@aol.com Web site: <http://www.qsl.net/n0uih/>

Equipment: Radio Shack PRO-79 handheld scanner, Radio Shack VU-210XR, Radio Shack discone antenna (both at 30 feet/9.1 meters above ground level)

All times CDT; all distances in miles/kilometers. Cities in parentheses are the National Weather Service offices where programming originates.

April 18, 2004 (trop)

0244 KWN55 162.425 Jamestown, MO-legal ID, Central MO forecast (St. Louis, MO) 115/185
 0245 WXM49 162.425 Marion, IL-conditions for southern IL (Paducah, KY) 100/161
 0246 WXL45 162.400 Columbia, MO-CDT TC, legal ID, MO cx (St. Louis, MO) 105/169
 0320 WXJ71 162.475 Peoria, IL-Midwest cx, legal ID, local signal (Lincoln, IL) 140/225

May 11, 2004 (trop)

0208 WNG639 162.475 Cherokee Village, AR-legal ID, AR and TN cx (Little Rock, AR) 180/290
 0213 KXI35 162.500 Alton, MO-legal ID, CDT TC, severe wx outlook (Springfield, MO) 155/249
 0356 KXI66 162.425 Piedmont, MO-legal ID, severe wx outlook (Paducah, KY) 100/161

May 15, 2004 (trop)

0002 WNG648 162.500 Dixon, MO-legal ID, forecast for central MO (Springfield, MO) 110/177
 2132 KXI48 162.450 Newton, IL-wx forecast for SE IL, cx for Lawrenceville (Lincoln, IL) 135/217

May 16, 2004 (trop)

0110 WXK72 162.400 Putnamville, IN-wx forecast for Terre Haute (Indianapolis, IN) 190/306

0117 KXI52 162.400 McLeansboro, IL-wx forecast for southeastern IL (Paducah, KY) 100/161
0207 KXI42 162.450 Chester, IL-wx forecast for southwest IL, KXI70 off (St. Louis, MO) 65/105
0304 WXJ71 162.475 Peoria, IL-legal ID, wx forecast for Peoria (Lincoln, IL) 140/225
1155 WXJ92 162.500 Macomb, IL-legal ID, cx for Burlington, IA (Quad Cities, IL/IA) 115/185
1326 KIH46 162.475 Mayfield, KY-legal ID, wx forecast for western KY (Paducah, KY) 170/274
1349 WXM49 162.425 Marion, IL-wx forecast for southern IL, KXI79 off (Paducah, KY) 100/161
1406 KXI35 162.500 Alton, MO-wx forecast for MO Ozarks, thru KXI46 (Springfield, MO) 155/249

May 18, 2004 (trop)

0040 KZZ39 162.500 Clinton, MO-wx conditions for MO cities (Pleasant Hill, MO) 185/298
0047 WXJ71 162.475 Peoria, IL-wx forecast for Peoria, legal ID (Lincoln, IL) 140/225
0049 WXJ75 162.400 Springfield, IL-legal ID, wx forecast for central IL (Lincoln, IL) 80/128
0057 KWN55 162.425 Jamestown, MO-wx forecast for Jefferson City (St. Louis, MO) 115/185

May 19, 2004 (trop)

0125 KXI42 162.450 Chester, IL-forecast for southwest IL, legal ID, KXI70 nulled (St. Louis, MO) 65/105
0202 KXI52 162.400 McLeansboro, IL-forecast for southeast IL (Paducah, KY) 100/161

May 20, 2004 (trop)

2234 KZZ39 162.500 Clinton, MO-legal ID, weather forecast (Pleasant Hill, MO) 185/298
2239 KIH46 162.475 Mayfield, KY-CDT time check, western KY forecast (Paducah, KY) 170/274
2248 WWF76 162.475 Summersville, MO-cx for West Plains, CDT TC (Springfield, MO) 130/209

Note that the NOAA Weather Radio station at Clinton, MO (programmed from the National Weather Service office in Pleasant Hill, MO) is using KZZ39 once again; they're listed as KXI99 in the most recent NOAA Weather Radio list on the National Weather Service Web site. As of May 30, 2004, 57 stations have been noted at this QTH.

Equipment: Radio Shack PRO-2052 VHF/UHF scanner, Radio Shack VU-210XR at 30 feet (9.1 meters) above ground level.

All distances in miles/kilometers; National Weather Service offices where programming originates from in parentheses.

July 5, 2004 (trop)

2326 KZZ65 162.525 IL Bloomington-Tornado warning for the area (Lincoln, IL) 140/225
2327 KXI48 162.450 IL Newton-Severe thunderstorm watch for the area (Lincoln, IL) 135/217

July 6, 2004 (trop/E-skip)

0115 WXK72 162.400 IL Putnamville-EDT TC, cx, ID, Terre Haute forecast (Indianapolis, IN) 190/306

1834 KHB38 162.400 NJ Atlantic City-marine forecast for Delaware Bay (Philadelphia, PA) 855/1376

July 20, 2004 (trop)

1915 KWN55 162.425 MO Jamestown-central Missouri forecast (St. Louis, MO) 115/184
1917 KZZ39 162.500 MO Clinton-heat advisory, ID, CDT TC, forecast (Pleasant Hill, MO) 185/298
2032 KZZ38 162.500 MO Trenton-forecast for the Trenton area (Pleasant Hill, MO) 195/314
2041 KZZ37 162.425 MO Maryville-forecast, conditions, legal ID, CDT TC (Pleasant Hill, MO) 265/426
2044 KZZ52 162.525 IA Hancock-wx cx for IA/NE/MO, CDT TC (Omaha, NE) 320/515
2139 KEC77 162.400 MO St. Joseph-weather forecast for St. Joseph (Pleasant Hill, MO) 255/410
2352 KZZ68 162.475 IA Van Wert-forecast for south central IA (Des Moines, IA) 235/378
2354 WXL62 162.475 IA Sioux City-CDT TC, legal ID, wx summary (Sioux Falls, SD) 410/660
2355 KXI66 162.425 MO Piedmont-heat tips, forecast, Ozark Foothills cx (Paducah, KY) 100/161

July 21, 2004 (trop)

2056 WXL45 162.400 MO Columbia-severe wx outlook, CDT TC, legal ID (St. Louis, MO) 105/169
2220 KZZ39 162.500 MO Clinton-cx for Sedalia and selected Midwest cities (Pleasant Hill, MO) 185/298

August 2, 2004 (trop)

1121 WXL45 162.400 MO Columbia-forecast, MO cx, CDT TC, legal ID (St. Louis, MO) 105/169
1222 WXJ71 162.475 IL Peoria-wx outlook, legal ID, Peoria forecast (Lincoln, IL) 140/225
1224 WXJ92 162.500 IL Macomb-wx forecast, legal ID, IL/IA cx (Quad Cities, IL/IA) 115/184

August 3, 2004 (trop)

2203 KXI97 162.400 AR Mena-cx for E Oklahoma/NW Arkansas (Little Rock, AR) 360/579
2251 KZZ34 162.450 MO Carrollton-MO cx, PSA, CDT TC, legal ID (Pleasant Hill, MO) 210/338

August 6, 2004 (trop)

2247 WXL62 162.475 IA Sioux City-forecast and cx for NW Iowa (Sioux Falls, SD) 410/660

August 7, 2004 (trop)

0005 KZZ39 162.500 MO Clinton-conditions at Sedalia (Pleasant Hill, MO) 185/298
0013 WWF76 162.475 MO Summersville-summary for SE Kansas/SW MO (Springfield, MO) 130/209

I broke down and bought a Radio Shack PRO-2052 in July; within a week of my purchase, I logged my first E-skip on the NOAA Weather Radio bands when I pulled in KHB38 from Atlantic City, NJ on July 6. While the East Coast was enjoying MUFs as high as TV channel 13, the MUF in my area only reached 162.400 MHz. The trop opening of July 20 brought two new stations from Missouri, including much-wanted KEC77. The big surprises of the August 3 opening were KXI97 and KZZ34 (the first station heard on 162.450 MHz from outside Illinois).

73, Eric (N0UIH)

DOUG SMITH, PLEASANT VIEW, TN

August 30, 2004

~noon MDT, 435.295MHz FM, heard K9OIM (not 100% sure of call) give grid square EM56. (southern Illinois) This signal was via ham satellite

OSCAR-51. (uplink 145.92, PL 67.0Hz)

Receiver: Yaesu FT-8900R, 1/4 wave multiband mobile antenna.

My location: Jackson Hole, Wyoming.

I might imagine the other PSB monitors out there will have trouble beating that for DX.

On the simple antenna, a OSCAR-51 pass doesn't seem to last very long. The older satellites where SSB and Morse are used seem to deliver usable signals over a much greater part of the pass.

Also had another QSO with the station at the Mt. Holmes (10,336') fire lookout station in the northwest corner of Yellowstone National Park. (George, WA7GSN, the fire ranger there) If any other WTFDA hams ever visit this park, they should give George a call on 146.52 simplex for an interesting conversation with an exotic place! He should be workable from anywhere northwest of Old Faithful, further if you have a good antenna, camp on a hilltop, or he gets his 25-watt radio fixed!

MORRIS SORENSEN, WINNIPEG, MB

Times are EDT.

July 6 Tr

50.185 USB 2130 K4CMS KY Alvaton ham 1048

50.143 USB 2205 KB9JCW IN Monterey ham 793

Sept 10

2208 162.400 VBL 854 Portage la Prairie MB Weather Radio fair with Environment Canada weather for Portage and surrounding towns(MS-MB) Time on above is UTC

Drake R8 with VHF converter and indoor random wire.

BOB SEAMAN, HAZELTON, PA

8/26/04 13:10 EDT

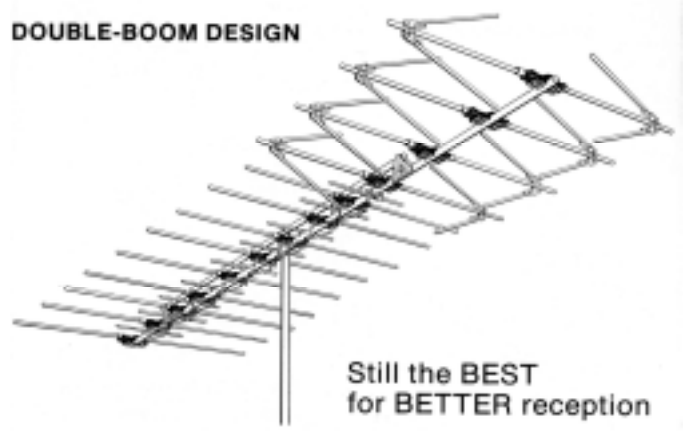
162.475 WXL-37 Mid-Hudson River Valley, "Greater Northeast" weather; Kingston-Poughkeepsie area. At 13:31 EDT there was

an announcement that they are broadcasting from a transmitter located on the WPDH and WEOK tower(s). New Log. Usually on 162.475 I either receive Philadelphia, Binghamton, NY or State College, PA only when there is some enhancement from any of those directions. There had been some enhancement up into CT earlier that morning. Bearcat scanner w/ whip antenna at the office(7th floor with windows facing east). Normally from this location I can get 162.500 from the Newton NJ area, 162.400 from Allentown & Williamsport PA, 162.550 from Wilkes-Barre, PA and if they are off I can get 162.550 from Harrisburg, PA. The elevation definitely helps. The 7th floor is approximately @1,670 ft. elevation.

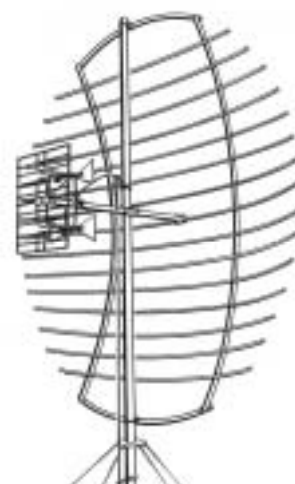
Bob Seaman Hazleton, PA

seaman_robert@myrealb

THIS MONTH'S COVER
Was submitted by Tom Bryant and was taken on his recent cruise to Alaska. The photo is that of the studios and transmitting tower of KTOO, Channel 3 in Juneau. Who will be the first to log this one by E skip??



The Channel Master Crossfire Antenna - A Legend



The Channel Master 4251 Another Legendary UHF Antenna

11th ANNUAL MADISON-MILWAUKEE DX GTG



Sheridan Park, Cudahy, WI

The weather in South Suburban Milwaukee on Saturday, August 21, 2004 was perfect. The skies were a cloudless blue, and the temperature along Lake Michigan topped off at an ideal 68 degrees. At Sheridan Park in Cudahy WI, the sun bathed the grounds in brilliant light, while stately old trees acted as a colorful canopy, providing shade for the picnic areas below. This was the setting for the 11th Annual Madison-Milwaukee Get-together for DXers and Radio Enthusiasts, which began at 1 PM that afternoon.

Even for those who have been involved in this event since its beginning, it is hard to believe that this get-together has this much history. For eleven consecutive third Saturdays in August, DXers from the Upper Midwest and beyond have met in Wisconsin for a gathering of DX talk and camaraderie. Much of the original concept for the GTG remains. It was intended to be a one-day event. It was intended to be multi-band, open to anyone who loves the listening hobby in its many different forms. It was intended to be affiliated with no national club, but to appeal to members of all clubs and no clubs alike. It would not be in competition with, but would rather be a complement to, club conventions. The intent was to promote goodwill within the DX community, and the history of this event has been one of striving to meet this goal.

Initial turnout for the GTG was humble, with only eight attending the first event in 1994. However, growth has been steady. Attendance in each of the last two years has been twenty-nine DXers.

The GTG is also evolving. This year we had two major departures from past practices. First, the event was held in the Milwaukee area for the first time. In the previous ten GTG's, Madison DXers Tim Noonan and Bill Dvorak traded hosting duties every year, and the event's title was the Madison Get-together for DXers and Radio Enthusiasts. When career opportunities took Tim to Milwaukee, he maintained a strong commitment to the GTG, and the plan became to alternate the site between Madison and Milwaukee. This also prompted the name change to the Madison-Milwaukee Get-together.

Second, because of the expanding attendance, it was decided to hold the afternoon portion of the gathering in a park. Tim found the ideal facility at Sheridan Park in Cudahy, which brings us back to that beautiful afternoon in August.



Directly behind the main entrance to the park is a shelter, which Tim reserved for our use. To the left is a large shaded area with a number of picnic tables. Behind the shelter is a very spacious field, about 500 feet long, leading to a single row of trees. On the other side of the trees is Lake Michigan.

The shelter provided protection for the food and drink, a place to congregate, and had plenty of space to comfortably fit all attendees in case the weather was bad. The picnic area was pleasant. Arriving attendees were soon engaged in

visiting, swapping DX stories and tips, exchanging experiences.

Neil Kazaross provided the highlight of the afternoon with his demonstration of AM phasing. Kaz brought a Drake R8B receiver, a Quantum Phaser, and two spools of antenna wire to the gathering. Taking advantage of the park's area, he laid down two Beverages on Ground antennas side-by-side. Attendees were amazed by the catches Kaz was getting.

in the late afternoon, attendees assembled for the annual photo, and then it was on to dinner. Tim selected Judy's Family Restaurant in Oak Creek WI, a good choice. The restaurant was attractive and comfortable, and the service was good. The menu selections were numerous and diverse, the portions large, and the prices were very reasonable.

After dinner, those who chose to went on to Tim's apartment in Oak Creek. There attendees were treated to a slice of the Get-together cake, expertly baked and decorated by Bill Dvorak's wife Nina. Great DX talk went on well into the night, topping off a day that will long be remembered.

As in the past, participation by WTFDA members was again outstanding. Fourteen members attended the 2004 GTG. Eleven are shown in the accompanying photo. They are, from left to right (home state in parenthesis): Todd Sprinkman (WI), Sheryl



The WTFDA Crew Strikes Again

Paszkievicz (WI), John Lentz (WI), Neil Kazaross (IL), Marv Shults (IL), Dave Legler (MN), Frank Merrill (IL), Bill Dvorak (WI), George Greene (OH), Bill Eckberg (IL) and former member Mike Condon (WI). Not shown: Bill Draeb (WI), Ken Onyschuk (IL) and John Rieger (WI). Other attendees (all from WI, except where noted): Jim Albrecht, Bob Brossel, Karl Forth (IL), Al Hajny, Mike Henke, Kevin McGill, Tim Noonan, Joe Olig, Mike Piering, Dan Sampson, Steve Schreiter, Glen Schroeder, Mark Taylor, Kent Winrich, Dave Zantow.

A special thank you goes out to Tim and Jill Noonan and their sons Chris and Paul for all their hard work and hospitality in putting together this year's GTG. Thank you also to Dave Legler for providing the photos that accompany this article. Finally, a big thank you to the twenty nine attendees, whose presence year in and year out make this one of the most enjoyable days of the year.

The Twelfth Annual Madison-Milwaukee Get-together for DXers and Radio Enthusiasts will take place in Madison on Saturday, August 20, 2005. Your hosts will be Bill and Nina Dvorak. We hope that you will join us. For more information, please e-mail Bill (dxerak@aol.com) . Details will also be publicized in a future VUD as the event approaches.



Kaz at the dials hearing amazing catches!

TRANSLATOR and LPFM NEWS

Bruce Elving

Translators and Low Power FM Stations Granted

Translators have less than 100 watts unless shown otherwise; technical parameters for most LPFM stations are not announced, but can be up to 100 watts at 30 meters above average terrain (horizontal, vertical or both h & v)

- AL Albertville W259AP *99.7 (WAYH 88.1 Harvest AL translator), h,v (horizontal and vertical polarizations; less than 100 watts in either plane)
- AL Aliceville W278AY *103.5 (WAJS 91.7 Tupelo MS), h,v
- AL Bayou la Batre W278AX *103.5 (WPAS 89.1 Pascagoula MS translator), h,v
- AL Birmingham W275AR *102.9 (WALN 89.3 Carrollton), h,v
- AL Brent W297AO *107.3 (WALN), h,v
- AL Brewton W223AW *92.5 (WPAS), h,v
- AL Chase (N.E. edge of Huntsville) W258AU *99.5 (WAYH), h,v
- AL Citronelle W223AY *92.5 (WAQY 91.7 Gulfport MS), h,v
- W266AX *101.1 (WATP 90.7 Laurel MS), h,v
- AL Clanton W293AP *106.5 (WJSP-FM 88.1 Warm Springs GA), h,v
- AL Dothan W261AT *100.1 (WAQG 91.7 Ozark), h,v
- AL Enterprise W292CY *106.3 (WAQG), h,v
- AL Eufaula W300BH *107.9 (WAXU 91.1 Troy), h,v
- AL Fairhope W223AX *92.5 (WPAS), h,v
- AL Florence W243BP *96.5 (WAFR 88.3 Tupelo MS), h,v
- W266AU 101.1 (WJOR-FM 101.5 St. Joseph TN), 130 [watts] v[ertical]
- AL Fort Payne W261AZ *100.1 (WJSP-FM), h,v
- AL Gadsden W261AW *100.1 (WJSP-FM), h,v
- AL Golden Springs (near Mt. Cheaha State Park at 33-38-15; 85-48-07) W297AP *107.3 (WAYH), h,v
- AL Haleyville W268AV *101.5 (WAFR), h,v
- AL Headland W240BM *95.9 (WAXU), h,v
- AL Helena W276BQ *103.1 (WUAL 91.5 Tuscaloosa), h,v
- AL Jemison W245AU *96.9 (WAQU 91.1 Selma), h,v
- AL Mobile W258AY *99.5 (WAQY), h,v
- AL Moulton W264BN *100.7 (WAFR), h,v
- AL Sylacauga W293AQ *106.5 (WJSP-FM), h,v
- AL Tallassee W268AW *101.5 (WJSP-FM), h,v
- W300BK *107.9 (WAYW 89.9 New Johnsonville TN, as received via W220DG 91.9 Montgomery AL), h,v
- AL Union Springs W272BP *102.3 (WAXU), h,v
- AL West Tuscaloosa (just SW Tuscaloosa) W235AX 94.9 (WDGM 99.1 Greensboro AL), h,v
- AL York W265BO *100.9 (WQST-FM 92.5 Forest MS), h,v
- AK Cantwell K226AU *93.1 (KUAC 89.9 Fairbanks), 200 v
- AK Wrangell K252EJ 98.3 (KGTW 106.7 Ketchikan), h,v
- AZ Clifton K261DG *100.1 (KRMC 91.7 Douglas), h,v
- AZ Cottonwood K246AQ *97.1 (KPUB 91.7 Flagstaff), h,v
- AZ Dolan Springs K284BE 104.7 (KJUL 104.3 North Las Vegas NV), 170 h,v
- AZ Oracle K250AN 97.9 (KRXS 97.3 Globe), h,v
- AZ St. Johns K273BA *102.5 (KGCB 90.9 Prescott), 120 h,v
- AR Arkadelphia K255BH *98.9 (KBDO 91.7 Des Arc), 120 h,v
- AR Batesville K242BH *96.3 (KBDO), h,v
- AR Brinkley K242BI *96.3 (KBMJ 89.5 Heber Springs), 250 h,v
- AR Earle K253AP *98.5 (KBDO), h,v
- AR El Dorado K297AO *107.3 (KANX 91.1 Sheridan), h,v
- AR Fordyce K264AT *100.7 (KANX), 120 h,v
- AR Forrest City K270AZ *101.9 (KBDO), 120 h,v
- AR Heber Springs K274BE *102.7 (KANX), h,v
- AR Jonesboro K298AV *107.5 (KARH 88.1 Forrest City), h,v
- AR Prairie Grove K295AX *106.9 (KLFS 90.3 Van Buren), 120 h,v
- AR Searcy K237DX *95.3 (KBDO), h,v
- AR Stuttgart K255BG *98.9 (KBDO), 250 h,v
- AR Waldron K224DH *92.7 (KHFN-LP 101.9 Fort Smith), 250 h,v
- CA Adelanto *101.5 Calvary Chapel Community Church, LPFM
- CA Boron K258BH *99.5 (KGBM 89.7 Randsburg), h,v
- CA Buttonwillow K295AZ *106.9 (new 89.9 CP Kettleman City), h,v
- CA Calabasas KCAQ-1 104.7 21 watts h,v booster of Oxnard station
- CA Chico K262BD *100.3 (translator of new Hayfork 89.3 station), h,v
- K283AR *104.5 (Hayfork 89.3 station), h,v
- CA Cloverdale K222BB *92.3 (KYCC 90.1 Stockton), h,v
- CA Coachella K217EZ *91.3 (KMRO 90.3 Camarillo, received via satellite), v. Had operated as K215DF 90.9.
- CA Daly City K269FB *101.7 (KWMMR 90.5 Point Reyes Station), h,v
- CA Green Valley Lake K246AR *97.1 (KWTH 91.3 Barstow), h,v
- CA Hungry Valley (WNW Lancaster, SE Gorman) K259BE 99.7 (KCAQ 104.7 Oxnard), h,v
- CA Isla Vista K287AL 105.3 (KCAQ), 250 h,v
- CA Little Fish Lake Valley (NE Bishop near the NV border; transmitter in NV, SW Tonopah) K245AR *96.9 (KWTW 88.5 Bishop), 250 h,v
- CA Modesto K234AX *94.7 (KYCC 90.1 Stockton), h,v
- CA Newport Beach *107.1 Startree Foundation, Inc., LPFM
- CA Patterson K286AZ 105.1 (KMRO 90.3 Camarillo, via K208DA 89.5 Los Banos), v
- CA Pebble Beach K234AW *94.7 (KAWZ 89.9 Twin Falls ID, via K216AX 91.1 Laurel CA), h,v
- CA Penngrove (S.E. Rohnert Park) *105.7 Redeemer Presbyterian Church, LPFM
- CA Petaluma *105.7 Petaluma Community Access, LPFM
- CA Porterville K289AZ *105.7 (KOKL 88.5 Selma CA), h,v
- CA Port Hueneme ("port wye-nee-me") *99.1 Friendships Unlimited, LPFM
- CA Prunedale K271AP *102.1 (KAWZ, as received via K252CK 98.3 Salinas), h,v
- CA Redding K249DY *97.7 (Hayfork 89.3), h,v
- K279AW *103.7 (KLVC 88.3 Magalia), h,v
- CA Rialto K252EI 98.3 (KBHR 93.3 Big Bear City), h,v
- CA Rice K277BA *103.3 (KNLB 91.1 Lake Havasu City AZ), h,v
- CA Rohnert Park *105.7 Somona State U., LPFM
- CA Rosamond K259BD 99.7 (KKZQ 100.1 Tehachapi), h,v
- CA San Bernardino County (transmitter considerably N.E. of Twentynine Palms) K288FM *105.5 (KNLB 91.1 Lake Havasu City AZ), h,v
- CA Soledad K221ET *92.1 (KAWZ, via K252CK), 200 watts h,v
- CA Susanville K257EK *99.3 (KNIS 91.3 Carson City NV), h,v
- CO Aspen K278AX 103.5 (KSNO 103.9 Snowmass Village), v
- CO Battlement Mesa (transmitter just east of Parachute) K270AY 101.9 (KJYE 92.3 Grand Junction), v
- CO Buena Vista K227AY *93.3 (KLDV 91.1 Morrison), h,v, via K213AT 90.5 Buena Vista.
- CO Cañon City K278AW *103.5 (KLFV 90.3 Grand Junction), h,v
- CO Creede K290AW *105.9 (KRZA 88.7 Alamosa), v (seeking h,v)
- CO Del Norte K278AY 103.5 (KKCS 101.9 Colorado Springs), h,v
- CO Edwards and Eagle KKCH-2 92.7 1100 v, d-a, with 100% power 265°. Booster of Glenwood Springs station.
- CO Fort Collins *101.5 Friends of Traditional Dance, LPFM
- CO Gunnison K254BB *98.7 (KLXV 91.9 Glenwood Springs), h,v
- K258BI *99.5 (KLFV 90.3 Grand Junction), h,v
- CO Hayden K223BB 92.5 (KJYE), 250 h,v
- K283AS 104.5 (KQZR 102.5 Craig), 250 h,v
- CO La Junta K262BH *100.3 (KTPL 88.3 Pueblo), 250 h,v
- CO Lake City K254BA *98.7 (KTMH 89.9 Colona), h,v
- CO Lincoln Park K285FM *104.9 (KLDV), h,v
- CO Meeker K295AW 106.9 (KMGJ 93.1 Grand Junction), v
- CO Monte Vista K240DI *95.9 (KLFV), h,v
- CO Redlands (just west of Grand Junction) K250AO *97.9 (KLFV), h,v
- CO Salida K273BC *102.5 (KLFV), h,v
- CO South Fork K265ED *100.9 (KRZA), v
- CO Telluride K234AV *94.7 (KLFV), h,v
- CO Walden K257EI *99.3 (KTAH 88.5 Steamboat Springs), 250 h,v
- K270AX *101.9 (new 91.7 Sidney CO), 250 h,v
- CA Windsor K234AZ *94.7 (KAWZ, received via K212DJ 90.3 Clearlake CA), h,v
- CO Woodland Park K228EM *93.5 (KCME 88.7 Manitou Springs), h,v
- CO Yuma K261DF *100.1 (KLDV), 140 h,v
- DE Georgetown W262BF *100.3 (WSDL 90.7 Ocean City MD), h,v

DE Viola W223BB 92.5 (WDSO 92.9 Smyrna), 250 h,v
FL Bonita Springs W277BG *103.3 (WBGY 88.1 Naples), h,v
FL Homestead W296BI *107.1 (WAVQ 88.3 Key West), h,v. Seeks 170 h,v.
FL Naples W263BC *100.5 (WBGY), h,v, from a site considerably east of Naples. W262AJ 100.3 Naples has its transmitter S.E. of town.
W272BM *102.3 (WBGY 88.1 Naples), h,v
W298AW *107.5 (WBGY), 170 h,v
FL Ocala W261BA 100.1 (WKZY 106.9 Cross City), 250 h,v
FL Opa-Locka W271AV *102.1 (WAFG 90.3 Fort Lauderdale), h,v
FL Panama City W227BH 93.3 (WFSY 98.5 Panama City) 250 h,v
W236BA 95.1 (WFBX 94.5 Parker FL), h,v
GA Ashburn W238BA *95.5 (WNKL 90.5 Pavo), h,v
GA Camilla W257BS *99.3 (WUNV 91.7 Albany), h,v
GA Cochran W300BG *107.9 (WBJY 89.3 Americus), h,v
GA Commerce W300BF *107.9 (WNGU 89.5 Dahlonega), h,v
GA Cypress Mills W266AT *101.1 (WAYT 88.1 Thomasville), h,v
GA Dawson W286BE *105.1 (WJWV 90.9 Fort Gaines), h,v
GA Meadowdale W248AL *97.5 (WAYT), h,v
GA Savannah W249BS *97.7 (WSVH 91.1 Savannah), h,v
GA Union (SE Columbus, NNE Cusseta) W246BF *97.1 (WAYT), h,v
GA Union Point (just SW Dalton, not the Union Point near Greensboro) W286BD *105.1 (WAYW 89.9 New Johnsonville TN, via W284AE 104.7 Rossville ["Orchard Hills"] GA, h,v.
GA Waycross W242BE 96.3 (WULS 103.7 Brixton GA), h,v
HI Fort Shafter (N.E. Haleiwa, near tip of island) K298AU *107.5 (KHRI, as received via K214CY 90.7 Maili), h,v
HI Honolulu K209AA *89.7 (KTUH 90.3 Honolulu), 120 h.
K245AS *96.9 (KHPR 88.1 Honolulu), h,v.
K268BE *101.5 (KIPO 89.3 Honolulu), h,v
HI Waipahu K280FC *103.9 (KHPR), h,v
ID Burley K262BF *100.3 (KARJ 88.3 Kuna), h,v
ID Driggs K239AU 95.7 (KZJH 95.3 Jackson WY), v
ID Garden City K228EK 93.5 (KJDY-FM 94.5 Canyon City OR), h,v
ID Idaho Falls K274BF *102.7 (KUWJ 90.3 Jackson WY), h,v
ID McCall K233BJ *94.5 (KTSY 89.5 Caldwell), v
ID Moscow K287AG *105.3 (KRKL 93.3 Walla Walla WA), h,v
ID St. Maries K223BD *92.5 (KPBX 91.1 Spokane WA), h,v
ID Sun Valley K248BE *97.5 (KTFY 88.1 Buhl), v
ID Wallace K283AT *104.5 (KPLG 91.5 Plains MT), v
IL Bement (NE Decatur) W280DS *103.9 (WOLG 95.9 Carlinville), h,v
IL Bloomington *103.3 Rock in Victory Ministries, LPFM
IL Carlyle W224BJ *92.7 (WOLG), 170 h,v
IL Centralia W254BE *98.7 (WAPO 90.5 Mount Vernon), h,v
IL De Kalb W287AU *105.3 (WSRI 88.7 Sugar Grove), h,v
IL Effingham W284BI 104.7 (WCRC 95.7 Effingham), 250 h,v
IL Fairbury W279BI *103.7 (WCIC 91.5 Pekin), h,v
IL La Con W236AZ *95.1 (WOLG), h,v
IL Mount Sterling W264BL *100.7 (WOLG), 170 h,v
IL Newton W233AZ 94.5 (WOLG), h,v
IL Oblong (W. Robinson) W292CX *106.3 (WOLG), 120 h,v
IL Seward Township (WSW Joliet, NE Morris) W268AY *101.5 (WSRI), h,v
IL Tuscola W238AZ *95.5 (WOLG), h,v
IL Vienna W256AW *99.1 (WVHM 90.5 Benton KY), h,v
IL Virden W228BP *93.5 (KSIV-FM 91.5 St. Louis MO), 120 h,v
IL Virginia W292CW *106.3 (WOLG), h,v
IL Williamsville W245AT *96.9 (WOLG), h,v (seeks 170 h,v)
IN Chesterton W248AP 97.5 (WFRN-FM 104.7 Elkhart), h,v
IN French Lick W269BU *101.7 (WFIU 103.7 Bloomington), h,v
IN Greensburg W255BG *98.9 (WFIU), h,v
IA Allison (west of Waterloo) K224DZ 96.7 (KIAI 93.9 Mason City), 250 h,v
IA Coulter (just W. Webster City) K235BC 94.9 (KKEZ 94.5 Fort Dodge), 250 h,v
IA Indianola *94.1 St. Anthony's Educational Radio Association, LPFM
IA Iowa City K261DH *100.1 (KNWS-FM 101.9 Waterloo), h,v
IA Muscatine K233BI *94.5 (KNWS-FM), h,v
IA North Burlington (NE West Burlington) K299AU *107.7 (KLRX 88.9 Wapello), 250 h,v
IA Oskaloosa K258BG *99.5 (KLRX), h,v
IA Red Oak K226AT *93.1 (KVSS 88.9 Omaha NE), 250 h,v
IA Reinbeck K236AQ *95.1 (KSKB 99.1 Brooklyn), 210 h,v. Seeks 250 h,v.
IA Tama K246AP *97.1 (KCRM-LP 96.7 Marshalltown), 250 h,v
KS El Dorado K227AX *93.3 (KCVW 94.3 Kingman), 250 h,v
KS Emporia K291AX *106.1 (KCVW), 250 h,v
KS Goodland K257EH *99.3 (KGCR 107.7 Goodland), 140 h,v
KS Manhattan K291BA *106.1 (KCVW), 250 h,v
KS Wakeeney K231BG *94.1 (KJIL 99.1 Copeland), 170 h,v
KY Clinton W298AX *107.5 (WVHM), h,v
KY Hazard W244BW 96.7 (WQUT 101.5 Johnson City TN), h,v
W270BA 101.9 (WPKE-FM 103.1 Coal Run), h,v
KY Hickman W243BO *96.5 (WVHM), h,v
KY Hopkinsville W237BV *95.3 (WVHM), h,v
KY Morehead W253AU *98.5 (WAXG 88.1 Mount Sterling), h,v
KY Murray W260BB *99.9 (WIGH 88.7 Lexington TN), h,v
KY Owensboro W293AT *106.5 (WBGW 101.5 Fort Branch IN), 120 h,v
KY Pikeville W236AY *95.1 (WEKH 90.9 Hazard), h,v
KY Prestonsburg W273BC 102.5 (WPKE-FM 103.1 Coal Run KY), h,v
LA Boothville-Venice K237DU *95.3 (WAOY 91.7 Gulfport MS), h,v
LA Covington K248BF *97.5 (WAOY), h,v
LA Gecko (west side of Breaux Bridge) K235BB *94.9 (KVTZ-LP 92.9 Breaux Bridge), h,v
LA Mooringsport K264AS *100.7 (KLMZ 104.3 Foulke AR), h,v
LA Ruston K234AY *94.7 (KHJC 91.9 Jefferson TX), 140 h,v
K274BG *102.7 (KHCL 92.5 Arcadia LA), 140 h,v
LA Simmesport K298AJ *107.5 (KLXA 89.9 Alexandria), 250 h,v
LA Woodlawn K233AS *94.5 (KSLU 90.9 Hammond), 250 h,v
ME Biddeford W273AX *102.5 (WYFP 91.9 Harpswell), h,v
MD Aberdeen W260BC *99.9 (WVAV 90.5 Medford Lakes NJ), h,v
MD Baltimore W248AO *97.5 (WVAV), h,v
MD Church Hill W268BA *101.5 (WVAV), h,v
MD Easton W261AU 100.1 (WOLC 102.5 Princess Anne), 100 h,v
MD Edgemere W252BR *98.3 (WVAV), h,v
MD St. Leonard *100.7 Alternatives for Communities in Crisis, Inc., LPFM
MD Wyne Mills W241AO *96.1 (WVAV), h,v
MA Greenfield W275AS 102.9 (WYRY 104.9 Hinsdale NH), h,v
MA Montvale (north side of Boston) W249BU *97.7 (WAVO 89.1 Concord NH), h,v
MA North Adams W266AW *101.1 (WFCR 88.5 Amherst), h,v
MA Pittsfield W228BS 93.5 (WHYN-FM 93.1 Springfield), h,v
MA Tatnuck (transmitter NW Worcester) W235AV 94.9 (WJMN 94.5 Boston), 230 h,v
MA Vineyard Haven W300BE *107.9 (WNCK 89.5 Nantucket), h,v
MI Adrian W249VT *97.7 (WBCY 89.5 Archbold OH), h,v
MI Dimondville W262BD *100.3 (WAKL 88.9 Flint), h,v
MI Forest Hills (just east of Grand Rapids) W237BW *95.3 (WPOZ 88.1 Muskegon), h,v
MI Lennon W271AX *102.1 (WAKL), h,v
MI Linden W292DA *106.3 (WAKL), h,v
MI Mason W237BY *95.3 (WAKL), h,v
MI Morrice W261AV *100.1 (WAKL), h,v
MI Plainwell W255BC *98.9 (WOFR 89.5 Schoolcraft), h,v
MI Vernon W295AT *106.9 (WAKL), h,v
MI Warren W244BT *96.7 (WAKL), h,v
MI Webberville W239AU *95.7 (WAKL), h,v
MN Albertville K221ES *92.1 (KHRI 90.7 Hollister CA), via new application), h,v
MN Bemidji K284BG *104.7 (KDJZ 100.7 Harwood ND), h,v
MN Blue Earth K222BA *92.3 (KGAC 90.5 St. Peter), h,v
MN Cottage Grove W242BA 96.3 (KJZI 100.3 Minneapolis), 250 h,v
K279AZ *103.7 (KLOV 89.3 Winchester OR, via K214DF 90.7 Golden Valley MN), 210 h,v
MN Grand Rapids W284BH *104.7 (KDNI 90.5 Duluth), h,v
MN Moose Lake W257BT *99.3 (KDNW 97.3 Duluth), h,v
MN Prior Lake K293BA *106.5 (WJRF 89.5 Duluth), h,v
MN St. Paul W225AP *92.9 (KLOV, via K214DF), 120 h,v
MS Vicksburg W223AK *92.5 (WASM 91.1 Natchez), h,v
MO Bellefonte (across the river from West Alton MO, and north of Bellefonte Neighbors MO) K268BF 101.5 (KDJR 100.1 De Soto), 140 h,v
MO Boonville K279AX *103.7 (KMCV 89.9 High Point MO), 250 h,v
MO Bowling Green K300BQ *107.9 (WOLG 95.9 Carlinville IL), 140 h,v
MO Camdenton K289AY *105.7 (KCRL 90.3 Sunrise Beach MO), 170 h,v
MO Cape Girardeau *107.9 Flat Foot Media, LPFM
MO Cuba K282AO *104.3 (KSIV-FM 91.5 St. Louis), 140 h,v

MO El Dorado Springs K276FA *103.1 (KSCV 90.1 Springfield), 170 h,v

MO Eminence K271AM *102.1 (KSIV-FM), 170 h,v

MO Hermitage K231BF *94.1 (KSCV), 250 h,v

MO Ironton K224DG *92.7 (KSIV-FM), h,v

MO Monett K297AN *107.3 (KSCV) 250 h,v

MO Osceola K277AZ *103.3 (KSCV), 250 h,v

MO Poplar Bluff K252EE *98.3 (KSIV-FM), 140 h,v

MO Rolla K292FO *106.3 (KCRL), 120 h,v

MO Sikeston K259BB *99.7 (KSIV-FM), 250 h,v

MO Stockton K252EF *98.3 (KSCV), 250 h,v

MT Anaconda K271AO 102.1 (KMBR 95.5 Butte), 130 h,v

MT Baker K294BB *106.7 (KMCJ 99.5 Colstrip), v

MT Broadus K272EF *102.3 (KMCJ), 100 v

MT Colstrip K233BL *94.5 (KMCJ), h,v

MT Columbus K291BB *106.1 (KBLW 90.1 Billings), v

MT Conrad K293BB *106.5 (KXEI 95.1 Havre), v

MT Great Falls *90.7 250 h,v; 76 m, American Family Association.

MT Libby *105.3 Libby Area Chamber of Commerce, LPFM

MT Livingston K300BS *107.9 (KVCM 103.1 Helena), v

MT Malta K241AX *96.1 (KXEI), v

MT Miles City K237DW *95.3 (KMCJ), h,v

MT Missoula K237DZ *95.3 (KGFC 88.9 Great Falls), 250 h,v

MT Red Lodge K295BA *106.9 (KBLW), v

MT Shelby K257EG *99.3 (KXEI), 170 h,v

MT Townsend K299AV *107.7 (KVCM), v

MT West Yellowstone K289BB 105.7 (KBZM 104.7 Big Sky MT), 250 h,v

MT Wolf Point K294BC *106.7 (KXEI), v

NE Columbus K238AR *95.5 (KLCV 88.5 Lincoln), 250 h,v

NE Crete K262BE *100.3 (KLCV), 250 h,v

NE Decatur K263AO *100.5 (KVSS 88.9 Omaha NE), 250 h,v. Seeks 170 h,v.

NE Fairbury K243AY *96.5 (KLCV), 250 h,v

NE Fremont K275AU *102.9 (KLCV), 250 h,v

NE Hastings K229AZ *93.7 (KLNK 88.3 Grand Island), 250 h,v

K261DE *100.1 (KLCV), 250 h,v

K279AY *103.7 (KIVE-LP 92.5 Aurora), 250 h,v

NE Kearney K294BA *106.7 (KIVE-LP), 250 h,v

NE McCook K237DV *95.3 (KGCR), h,v

NE Norfolk K242BE *96.3 (KLCV), 250 h,v

K252EG *98.3 (KVSS 88.9 Omaha), 250 h,v

NE Ogallala K233BK *94.5 (KGCR), h,v

NE Schuyler K276FB *103.1 (KVSS), 120 h,v

NE York K257EF *99.3 (KLCV), 250 h,v

NV Charleston Park (just east of Charleston Peak, between North Las Vegas and Pahrump) K288FN 105.5 (KOAS-1 105.7 Henderson NV), h,v

NV Crystal (NE Las Vegas, W. Moapa Valley) K228EJ *93.5 (KZBS 90.7 St. George UT), h,v

NV Elko K274BD 102.7 (KWNA-FM 92.7 Winnemucca), h,v

NV Fallon K271AN *102.1 (KLRH 88.3 Sparks), 250 h,v

NV Hawthorne K228EL *93.5 (KQMC 90.1 Hawthorne), h,v

NV Imlay K242BF *96.3 (KQMC 90.1 Hawthorne), h,v

NV Luning-Mina K233BH *94.5 (KQMC), h,v

NV Mesquite K276EZ *103.1 (KILA 90.5 Las Vegas), 250 h,v

NV Moapa K276EY *103.1 (KZBS), h,v

K299AT *107.7 (KUNV 91.5 Las Vegas), h,v

NV Overton K272EE *102.3 (KZBS), h,v

NV Tonopah K247AX *97.3 (KQMC), h,v

NH Concord W296BK 107.1 (WTPL 107.7 Hillsboro NH), h,v

NH Keene W288BN 105.5 (WYRY 104.9 Hinsdale), h,v.

NH North Conway W237BX *95.3 (WMSJ 89.3 Freeport ME), h,v

NH Sugar Hill W230BC *93.9 (WVPA 88.5 St. Johnsbury VT), h,v

NJ Flemington *107.9 Hunterdon County, LPFM in a settlement agreement

NJ Four Corners (SW Port Jervis NY, SSE Milford NJ) W275AT 102.9 (WSUS 102.3 Franklin NJ), 100 h,v

NJ Harrisonville (S. Bridgeton, SW Millville, neither of the two Harrisonvilles shown on maps) W237CD *95.3 (WXHL-FM 89.1 Christiana DE), h,v

NJ Readington *107.9 The Prophetic Voice, Inc., LPFM

NM Alamogordo *95.1 Southwestern Trails Cultural Heritage Association, LPFM

NM Clovis K300BR *107.9 (KAQF 91.1 Clovis), h,v

NM Eagle Nest K232DP 94.3 (KTAO 101.9 Taos), h,v

NM Montoya K286BA *105.1 (KFLQ 91.5 Albuquerque), 250 h,v

NM Roswell K256AZ *99.1 (KLYT 88.3 Albuquerque), h,v

NM Santa Rosa K237DY *95.3 (KFLQ 91.5 Albuquerque), h,v

NM Shiprock K281AW *104.1 (KQLV 105.5 Bosque Farms), h,v

NM Truth or Consequences K227BA *93.3 (KELP-FM 89.3 Mesquite NM), h,v

K273BB *102.5 (KLYT), h,v

NY Alfred W262BE *100.3 (WCID 89.1 Friendship), h,v

NY Brighton W234AZ *94.7 (WCYI 88.9 Canandaigua), h,v

NY Corning W229AS 93.7 (WLVY 94.3 Elmira), h,v

NY Cutchogue W246BG 97.1 (WALK-FM 97.5 Patchogue), 250 h,v

NY Ellenville *93.7 E. Outreach Services, LPFM

NY Elmira W230BB 93.9 (WLVY), 100 h,v

NY Geneseo W278AW *103.5 (WCOU 88.3 Warsaw), h,v

NY Glens Falls W300BJ *107.9 (WXLG 89.9 North Creek), h,v

NY Hamilton W222AT *92.3 (WRVN 91.9 Utica), h,v

NY Hudson W257BU 99.3 (WRVE 99.5 Schenectady), h,v

NY Jay (ENE Lake Placid) W271AW *102.1 (WSLL 90.5 Saranac Lake), h,v

NY Little Falls W248AN 97.5 (WOUR 96.9 Utica), 250 h,v

NY Marathon W272BQ *102.3 (WRVN), h,v

NY North Creek W282AV *104.3 (WXLG 89.9 North Creek), h,v

NY Oswego W231BK *94.1 (WCOV 93.7 Clyde), h,v

NY Rock Hill W235AW 94.9 (WDNB 102.1 Jeffersonville NY), h

NY Rome W237CC *95.3 (WRVN), 120 v

NY St. Huberts W269BR *101.7 (WSLL), h,v

NY Shelburne W267AT *101.3 (WKVU 100.7 Utica), h,v

NY Spencerport W240BP *95.9 (WCYI), h,v

NY Steuben (N.W. of Remsen) W261BB *100.1 (WRVN), h,v

NY Utica W231BI 94.1 (WUCL 93.5 Remsen), h,v

NY Warwick W290BB 105.9 (WSUS 102.3 Franklin NJ), h,v

NY Watertown W260BE *99.9 (WRVJ 91.7 Watertown), h,v

NY Waverly W229AR 93.7 (WLVY 94.3 Elmira), h,v

NC Black Mountain W298AY *107.5 (WCQS 88.1 Asheville), h,v

NC Clayton W237BZ *95.3 (WZRU 88.5 Roanoke Rapids), h,v

NC Fuquay-Varina W255BE *98.9 (WYFL 92.5 Henderson), h,v

NC Jacksonville W240BQ *95.9 (WYFL), h,v

W266AV *101.1 (WAGO 88.7 Snow Hill), h,v

NC Oriental W223BA *92.5 (WCPE 89.7 Raleigh), h,v

NC Rocky Mount W296BJ *107.1 (WZRU), h,v

NC Rose Hill W240BN *95.9 (WAGO), h,v

W263BE *100.5 (WAGO), h,v

W276BR *103.1 (WAGO), h,v

NC Sanford W226AV *93.1 (WTJY 89.5 Asheboro), h,v

W272BN *102.3 (WTJY), h,v

NC Winston-Salem W273BD *102.5 (WRVL 88.3 Lynchburg VA), h,v

ND Belcourt *91.9 Turtle Mountain Community College, LPFM

ND Beulah K300BP 107.9 (KNDR 104.7 Mandan), 250 h,v

ND Cavalier K272BF *102.3 (KFNW-FM 97.9 Fargo), h. Reinstated.

ND Mandan K263AP *100.5 (KFNW-FM), 250 h,v

OH Beaver Creek W268AX *101.5 (WVXU 91.7 Cincinnati), h,v

OH Bowling Green W290BA *105.9 (KLOV, via a new application), h,v

OH Coshocton W233BB *94.5 (WNZR 90.9 Mount Vernon), h,v

OH Harbor View (transmitter north edge Toledo) W281AL *104.1 (KLOV, via new application), h,v

OH Hinckley W269BS *101.7 (KLOV, via W219BT 91.7 Wadsworth OH), h,v

OH Jackson W285DZ *104.9 (WPCN 88.1 Point Pleasant WV), h,v

OH London W279BJ *103.7 (WCYC-LP 105.1 London), h,v

OH Middleport W246BH *97.1 (WPCN), h,v

W290BC *105.9 (WPCN), 170 h,v

OH Mount Orab W293AR 106.5 (WSRW 106.7 Hillsboro), 250 h,v

OH Norwood W263BD *100.5 (WJYC 90.1 Delhi Hills OH), h,v

OH Tiffin W227BJ *93.3 (WXML 90.1 Upper Sandusky), h,v

OH Toledo W277BI *103.3 (KLOV 89.3 Winchester OR via a new translator), h,v

OH Wilmington W262BG *100.3 (WVXW 89.5 West Union OH), h,v

OK Ada K286BB *105.1 (KQUJ 88.7 Ada), 250 h,v

OR Baker City K229AY *93.7 (KTSY 89.5 Caldwell ID), v

OR Chapman K284BF *104.7 (KWYQ 90.3 Longview WA), h,v

OR Depoe Bay KSND-1 95.1 300 v, d-a, with 100% power 0°. Booster of Monmouth OR station.

OR John Day K229AX 93.7 (KJDY-FM), 220 h,v

OR Medford KROG-1 96.9 2000 h,v; d-a, with 100% power 0°. Booster of Grants Pass station.

PA Carbondale W279BK *103.7 (WCII 88.5 Spencer NY), h,v

PA Clearfield W259AQ *99.7 (WGRC 91.3 Lewisburg), h,v

PA Cogan Station W277BJ *103.3 (WCOG-FM 100.7 Galeton), h,v

PA Corry W238BB *95.5 (WCOT 90.9 Jamestown NY), h,v

PA Coudersport W272BO *102.3 (WCOG-FM), h,v
PA DuBois W232BK 94.3 (WKBI-FM 93.9 St. Marys), 120 h,v
PA Erie W244BV 96.7 (WREO 97.1 Ashtabula OH), 100 h,v
W297AQ *107.3 (WOOH-LP 92.7 Meadville), h,v
PA Glendower (NW Minersville) W243BQ 96.5 (WRFY 102.5 Reading), h,v
PA Granville Township (just south of Lewistown) W300BI 107.9 (WCHX 105.5 Lewiston), h,v
PA Huntingdon W273BE *102.5 (WPSU 91.5 State College), h,v
PA Jeannette W250AU *97.9 (WRWJ 88.1 Murrysville), h,v
PA Lewisburg W284BG *104.7 (WCOG-FM), h,v
PA Lock Haven W225AQ *92.9 (WCOG-FM), h,v
PA Mansfield W229AQ *93.7 (WCIH 90.3 Elmira NY), h,v
PA Minersville W277BH 103.3 (WKSJ 102.7 Williamsport), 150 watts h,v
PA Moosic (just SW Scranton) W289AU 105.7 (WAWZ 99.1 Zarephath NJ), h,v
PA New Holland (E. Lancaster, NW Gap) W221BV *92.1 (WXPB 88.5 Philadelphia), h,v
PA New Providence W284BF *104.7 (WVAV), h,v
PA North East W245AV *96.9 (WCOT), h,v
PA Pottstown W269BT *101.7 (WVAV), h,v
PA Shamokin W233BC *94.5 (WBYX 88.7 Stroudsburg), h,v
PA State College W268BB *101.5 (WCOG-FM), h,v
PA Titusville W238BD *95.5 (WCOT), h,v
PA Tunkhannock W236BB *95.1 (WCII 88.5 Spencer NY), h,v
PA Uniontown (SSE Pittsburgh, not the Uniontown near Barnesboro) W231BH 94.1 (WWSW 94.5 Pittsburgh), 250 h,v
PA Wilkes-Barre (at 40-07-45; 75-52-43) W260BD *99.9 (WBYO 88.9 Sellersville), h,v. This in the same city as W260AY *99.9 at 41-10-58; 75-52-10.
PA York W243BR *96.5 (WVAV), h,v
W273BA 102.5 (WHKF 99.3 Harrisburg), 230 h,v
SC Barnwell W232BJ *94.3 (WLPE 91.7 Augusta GA), h,v
SC Chesterfield *89.3 2000 h,v; 56 m, Chesterfield Educational Association.
SC Darlington W255BD 98.9 (WSIM 93.7 Lamar SC), 250 h,v
SC Fountain Inn W289AV 105.7 (WCCP 104.9 Clemson), h,v
SC Gaffney W282AX *104.3 (WTBI-FM 91.7 Greenville), h,v
SC Greenwood *101.9 Calvary Chapel Greenwood, LPFM
SC Laurens W240BO *95.9 (WTBI-FM), h,v
SC Rock Hill *100.9 Community Educational Radio, Inc., LPFM
SC Sumter W227BI 93.3 (WIBZ 95.5 Wedgefield), 250 h,v
SD Aberdeen K223BN *94.5 (KFNW-FM 97.9 Fargo ND), 120 h,v
SD Colonial Pine Hills (Rapid City area, just N. of Keystone) K289BA *105.7 (KCSP-FM 90.3 Casper WY), h,v
SD Pierre K296FI *107.1 (KINI 96.1 Crookston NE), 140 h,v
SD Rapid City KLGH-1 *88.3 2300 h,v; d-a, with 100% power 235°; booster of Rapid City station.
TN Camden W258AV *99.5 (WVHM), h,v
TN Dresden W263BF *100.5 (WAAJ 89.7 Benton KY), h,v
TN Dyersburg W273AZ *102.5 (WVHM), h,v
TN Greeneville W230BA *93.9 (WCQR-FM 88.3 Kingsport TN), h,v
TN Henderson W252BS *98.3 (WAYM 88.7 Columbia), h,v
TN Huntingdon W260BA *99.9 (WVHM), h,v
TN Martin W291BI *106.1 (WAYM), h,v
TN McKenzie W255BF *98.9 (WBEL 88.5 Cairo IL), h,v
TN McMinnville W244BX *96.7 (WAYM), h,v
TN Milan W291BJ *106.1 (WAYM), h,v
TN Sewanee W273BF *102.5 (WAYM), h,v
TN South Pittsburg W249BR *97.7 (WNGU 89.5 Dahlenega GA), h,v
TN Spencer W273BF *102.5 (WAYM), h,v
TN Sweetwater W235AZ *94.9 (WLNT-LP 96.1 Loudon), h,v
TN Valley Brook (SSW Soddy-Daisy, E. Walden) W291BK *106.1 (WAYM), h,v
TN Westwood (NE edge of Manchester) W300BL *107.9 (WAYM), h,v
TN Winchester W295AV *106.9 (WAYM), h,v
TX Abilene K233BM *94.5 (KAQD 91.3 Abilene), h,v
TX Albany K268BG *101.5 (KYRE-LP 92.7 Breckenridge), 250 h,v
TX Angleton K236AR *95.1 (KFTG 88.1 Pasadena TX), h,v
TX Bay City *88.1 45000 h,v; 100 m, d-a, with 21% power 130-160°, Family Stations, Inc.
TX Burnet K291AZ *106.1 (KNCT-FM 91.3 Killeen), h,v
TX Canton K229BA *93.7 (KGLY 91.3 Tyler), 210 h,v
K237EB *95.3 (KBDE 89.9 Temple), 250 h,v
TX Corpus Christi K281AV *104.1 (KBNJ 91.7 Corpus Christi), h,v
TX Dripping Springs *91.9 6000 h,v; 84 m, d-a, with 47% power 230°, Media For the Holy Family Foundation.
TX Flat K262BG *100.3 (KVLZ 98.3 Gatesville), h,v
TX Glen Rose K227AZ *93.3 (KYQX 89.5 Weatherford), 140 h,v
TX Graham K259BC *99.7 (KYRE-LP 92.7 Breckenridge), 250 h,v
TX Greenville K237EA *95.3 (KHCP 89.3 Paris TX), 170 h,v
K256BA *99.1 (KHCJ), 140 h,v
TX Hereford K229AW *93.7 (KJRT 88.3 Amarillo), 100 h,v
TX Kerrville K257EJ *99.3 (KHKV 91.1 Kerrville), h,v
TX Killeen *104.7 Killeen Seventh-day Adventist Church School, LPFM
TX Mineola K234BA *94.7 (KGLY), 250 h,v
TX Palestine K276FC *103.1 (KSAU 90.1 Nacogdoches), 250 h,v
TX Pearsall *101.5 Pearsall Educational Prayer Association, LPFM
TX Plainview K277BB *103.3 (KKLU 90.9 Lubbock), h,v
TX Sand Springs (east of Big Spring) K247AZ *97.3 (KFRI 88.1 Stanton), 140 h,v
TX Washburn K217CS *91.3 (KANZ 91.1 Garden City KS), 170 h,v.
It is still on the air, despite the new KTXP *91.5 Bushland TX.
TX Woodville K242BG 96.3 (KETX-FM 92.3 Livingston), 100 h,v
UT Beaver K246AO *97.1 (KHRI 90.7 Hollister, via a new application), 120 h,v
UT Greenville (west side of Beaver UT) K290AV *105.9 (KZBS 90.7 St. George UT), h,v, despite K279AO 103.7 there, another KZBS relay.
UT Heber City K238AS 95.5 (KSFI 100.3 Salt Lake City), 220 v (had operated as K292AB 106.3)
UT Holden K295AY *106.9 (KAWZ via K213DC 90.5 Ephraim UT), h,v
UT Park City K252EH *98.3 (KNKL 88.7 North Ogden), h,v
UR Parowan K247AY *97.3 (KHRI, as received by K249DR 97.7 Cedar City), h,v
UT Stockton K284AY *104.7 (KUER 90.1 Salt Lake City), v
VT Burlington W233BD *94.5 (WVPS 107.9 Burlington), h,v
VT Manchester W223AV *92.5 (WVPR 89.5 Windsor), h,v
W295AU *106.9 (WBTN-FM 94.3 Bennington), h,v
VT Middlebury W258AW *99.5 (WVPS 107.9 Burlington), h,v
VT St. Albans W251AX 98.1 (WLKC 103.3 Waterbury), h,v
VT White River Junction W247BC 97.3 (WZRT 97.1 Rutland), h,v
VA Culpeper W237CA *95.3 (WRVL 88.3 Lynchburg), h,v
VA Farmville W262BC *100.3 (WCPE 89.7 Raleigh NC), h,v
VA Fredericksburg W231BJ *94.1 (WPER 89.9 Culpeper), h,v
W243BS *96.5 (WPER), h,v
W261AY *100.1 (WPER), h,v. What redundancy! Plus there is an LPFM there on the adjacent channel, *99.9.
VA Hopewell W241AN *96.1 (WZRU), h,v
VA Midlothian W241AP *96.1 (WRVL), h,v
VA Mount Crawford W270BB 101.9 (WSVO 93.1 Staunton), 130 h,v
VA Pulaski W293AS *106.5 (WRVL), h,v
VA Richmond W228BR *93.5 (WJYA 89.3 Emporia), 100 h,v
W273BB *102.5 (WRVL), h,v
VA South Hill W298AZ *107.5 (WBKU 91.7 Ahoskie NC), h,v
VA Virginia Beach W257BV *99.3 (WBKU 91.7 Ahoskie NC), h,v
WA Bellingham *102.3 The American Museum of Radio, LPFM
WA Bremerton K283AU 104.5 (KAYO-FM 99.3 Elma WA), 150 v. A threat to little KMIH *104.5 Mercer Island WA?
WA Edgemont (SE Ellensburg, almost to the base's border) K286BC 105.1 (KZTA 96.9 Naches), v
WA Ellensburg K248BG 97.5 (KZTA), 250 h,v
K256AY *99.1 (KRKL 93.3 Walla Walla), h,v
WA Hogan's Corner (just north of Ocean Shores) K243BA *96.5 (KGHQ-LP 94.3 Aberdeen), h,v
WA Kennewick West (SSE Kennewick) K285FN 104.9 (KZTB 96.7 Benton City), v
WA Naches K223BC *92.5 (KAWZ via K218CX 91.5 Yakima), v
WA Omak K273BD *102.5 (KPLW 89.9 Wenatchee), h,v
WA Westport K234AU *94.7 (KGHQ-LP 94.3 Aberdeen), h,v. Seeks 250 h,v.
WA White Center (transmitter east of downtown Seattle) K225AX *92.9 (KSVR 91.7 Mount Vernon), h,v
WV Beckley W242BD *96.3 (WQAZ-LP 98.5 Edmond WV), h,v
W268AZ 101.5 (WDBS 97.1 Sutton), h,v
WV Franklin W274AU 102.7 (WQWV 103.7 Fisher WV)
WV Mount Hope W264BM 100.7 (WRLB 95.3 Rainelle), h,v
WV New Martinsville WRRR-2 93.9 9 watts v, d-a, with 100% power 0°
WV Weirton W261AX *100.1 (WAPS 91.3 Akron OH), h,v
WI Ashland *95..5 Holy Family Radio Assn., LPFM

W242BC *96.3 (KDNW 97.3 Duluth), h,v
 WI Chetek W287AT *105.3 (KDNW), h,v
 WI Darlington W237CB *95.3 (WNWC-FM 102.5 Madison), h,v
 WI Hayward W233BA *94.5 (KDNW), h,v
 W254BF 98.7 (WGMO 95.3 Shell Lake), h,v
 WI Ladysmith W228BQ *93.5 (KDNW), h,v
 WI Lancaster W253AV *98.5 (WJTY 88.1 Lancaster), h,v
 WI Madison *97.1 Lake City Church, Inc., LPFM
 WI Manitowoc W238BC *95.5 (WEMI 91.9 Appleton), h,v
 WI Marshfield W290AZ *105.9 (WNWC-FM), h,v
 WI Medford W242BB *96.3 (KDNW), h,v
 WI Merrill W201CW *88.1 (WRVM 102.7 Suring), 120 h,v
 WI Minocqua W280DT *103.9 (WCWL-LP 103.5 Clearwater Lake),

250 h,v
 WI Oshkosh *101.9 The Friends of OCAT, LPFM
 WI Peshtigo W270BC 101.9 (WAUN 92.7 Kewaunee), 250 h,v
 WI Rhinelander W244BU *96.7 (WCWL-LP), 250 h,v
 WI Rothschild W229AP *93.7 (WRVM 102.7 Suring), h,v
 WI Wisconsin Dells W225AS 92.9 (WBKY 95.9 Portage), 250 h,v
 WI Wisconsin Rapids W252BQ *98.3 (WNWC-FM), h,v
 WY Alpine K243AZ 96.5 (KMTN 96.9 Jackson), v. Its transmitter to be S.W. Alpine in Idaho.
 WY Evanston K260AY 99.9 (KAOX 107.3 Kemmerer), h,v
 WY Rock Springs K291AY *106.1 (KCSP-FM 90.3 Casper), 250 h,v
 ON Oshawa CKDO 1350 granted a low power FM relay for downtown Oshawa, but the CRTC says it must ask for a frequency other than 107.7 which it requested.

WESTERN TV DX CONTINUES FROM PAGE 19

Dave Pomeroy's report continues

KLJB-18 Davenport, IA
 August 2004
 02 2155 KCRG-DT 52 Cedar Rapids, IA
 2200 KYOU-DT 14* Ottumwa, IA
 WHO-DT 19 Des Moines, IA
 KPXR-DT 47 Cedar Rapids, IA
 KTVO-DT 33 Kirksville, MO
 WQAD-DT 38 Moline, IL
 1-WQAD-HD 2-WQAD-WX 3-WQAD-SD
 KWQC-DT 56 Davenport, IA
 2225 KWTW-DT 39 KOPX-DT 50 KSBI-DT 51
 OKC
 09 0530 KSNF-DT 46 KOZJ-DT 25 Joplin, MO
 KPOM-24 KHBS-40 KHBS-DT 21
 Ft. Smith, AR
 0550 KOZK-DT 23 Springfield, MO
 25 0700 KC UHF's very strong
 26 0720 KTXT-DT 39* Lubbock, TX (~ 500 mi)
 Rare direction.
 Barker channels: "KTXT-DT 5.2 is temporarily off. Please tune to 5.1 or 5.3"
 0725 KUPK-DT 18* Garden City, KS
 DTV channels 19, 21, 26, and 45
 Wichita, KS
 0735 K65CO-65* Woodward, OK
 K53 -53 KWCH-12
 0800 KWKB-20 Iowa City, IA
 KBSH-7 KOOD-9 Hays, KS (both rare)
 0805 KOOD-DT 16 Bunker Hill, KS (Hays)
 0825 K30DG-30 Salina, KS
 0830 KWET-12* Cheyenne, OK
 0845 KFOR-4 Oklahoma City, OK
 0900 K53CI-53* Seiling, OK KFOR-4
 0910 WDJT-58 Milwaukee, WI

WBUW-57 Janesville, WI
 UNID-DT 19 "Pgm 1(Default)"
 0925 WHA-21 WHA-DT 20* Madison, WI
 UNID-63 Telemundo
 WISN-DT 34 Milwaukee, WI
 WKOW-DT 26 WISC-DT 50
 Madison, WI
 Pgm. 1 WISC-DT Pgm. 2 UPN 14
 1000 KPXR-DT 47 Cedar Rapids, IA
 KFAX-28 Cedar Rapids, IA
 (local KSNT-DT 28 on-the-air)
 KCCI-DT 31 Des Moines, IA
 WHLA-DT 30 La Crosse, WI
 1005 KRIN-DT 35* Waterloo, IA
 1020 KDIN-DT 50* Des Moines, IA
 1030 KPXM-DT 41* Minneapolis, MN
 (signal detectable, but would not decode on Hauppauge Win TV-D: however, calls appeared on Samsung 26" HDTV set)
 No skip ID'd, but some decent tropo. Opening to the southwest with KTXT-DT 39 and KWET-12 surprise catches. I am doing my DTV DXing on the PC card as it is easier to use than the Samsung HDTV. However, I have had some good DX on the Samsung after checking the Win TV-D. Low power of WDAF-DT 34 in Kansas City has made it possible to pick up a few DTVs on channel 34 that probably would have been missed with WDAF-DT at higher power. My wife alerted me that KTKA-49 went off while she was watching. I tried channel 49 on the Samsung and KLJB-DT 49 was there. I'll probably never see it again.

The WTFDA Mexican FM Directory



A *must* for southern FM DXers, it's the 2004 Mexican FM Directory with stations sorted by frequency. If you're in range of Mexican FM skip, this 60 page directory is something you can use. **The price of the directory is just \$7.00.**

To order a copy of the Mexican FM Directory, send a check or money order for \$7.00 payable to Dave Janowiak and send it to **Jim Thomas, 280 Katsura Avenue, Milliken, CO 80543**. For more information, email Jim at mrradiohead@netzero.com

TELEVISION: THE TECHNOLOGY THAT CHANGED OUR LIVES...COLOR TV HISTORY Part 1

BOB COOPER

The following material is from an in process book by Robert B Cooper who retains the copyright to this material. None of this may be reproduced in any form without the permission of the author; special permission for VUD to publish this 'draft version' is on record."

(Author's tracking notes: Tracing the historical development of color TV in America has been an interesting challenge. There has been no shortage of "headline" material pried from old, yellowed pages of Radio Craft / Radio Electronics, Radio TV News, Televiser and many other periodicals (including Broadcasting). What has been more challenging to run down has been the nitty-gritty first-person detail that went with the early color experiments. I am indebted primarily to a number of engineers and managers who actually worked on the commercialization of the CBS color project and the time they willingly spent with me and my wife Gay in testing my "theories" of how CBS commercially mismanaged their entry into the color TV world. What follows is a "work in progress" updated as new information comes to the surface and can be verified. Additional efforts are ongoing and will continue until a natural culmination of the subject matter results.)

References to date:

RADIO NEWS (1936 - 1954)

RADIO CRAFT / RADIO ELECTRONICS (as renamed in 1948; 1936 - 1954)

TELEVISER - Journal of Television (1945 - 1951)

FM (later FM & TV; 1941 - 1948)

BASIC TELEVISION (Bernard Grob/ RCA / McGraw Hill 1949)

PRINCIPLES OF TELEVISION ENGINEERING (D. Fink/McGraw Hill/1947, 1951 and prior)

DuMont Anthology: A Historical Study of the DuMont Television Network

Behind The Tube (Andrew Inglis, ex-RCA, 1990)

Wisdom of Sarnoff and RCA (Wisdom Society, 1967)

David Sarnoff (Eugene Lyons, 1966)
AND PART OF WHICH I WAS (George H. Brown, 1982 revised edition)

Maverick Inventor: my turbulent years at CBS (Peter C. Goldmark and Lee Edson; 1973)

The Great Television Race (Udelson; 1982)

And the first person remembrances of Sava Jacobson, Morris L. Tucci, George DeRado and others who's quotations appear here.

...

Scenario:

a) In November 1940 the status of American television was: 1) Approximately ten low-band (44 - 68 Mc/s) experimental stations were capable of tests. Most operated with test pattern and some broadcast an occasional film. Notably, RCA's W2XBS (44 - 50 MHz) and Los Angeles W6XAO (44 - 50 Mc/s; Don Lee Radio Network) had been or were maintaining schedules of 1 to 3 hours daily; Sundays excepted.

2) CBS was not on the air (November 1940, with programming); they said their Chrysler Building (NYC) transmitter was not yet complete (amongst other problems, they were waiting on RCA to deliver their transmitter!) and their limited transmissions consisted only of a test pattern.

3) RCA had come off the (1939) World's Fair TV 'high' having created considerable consumer interest in television becoming an early addition to the American home scene. But following the World's Fair period (April 1939 launch) their experimental programming schedule on W2XBS had dropped off significantly (regular scheduled programming ceased July 31, 1940); during September-October (1940) almost no programming was transmitted although they did create a special "Election Night" coverage report during the November 1940 national elections, and then returned to test pattern.

4) Estimations ran from 2,000 (low end) to 4,000 (top end) TV receivers in public hands, mostly in the New York City area. RCA had manufactured the bulk of these followed by GE and Andrea (which sold small 3" screen partially assembled kits to experimenters). TV sets for Los Angeles were either home

constructed following plans distributed by W6XAO or manufactured by a Los Angeles firm known as Gilfillan Bros (their Model G12 was uniquely able to work in both 50 and 60 cycle electrical environments, common in Los Angeles in 1940).

5) TV receivers at that point in time were designed for the 441 line RMA (Radio Manufacturer's Association; RCA sponsored) "standard" in the east, 306 lines and 24 frames in Los Angeles (in the process of adopting 441 x 30). The audio was AM rather than FM and a high percentage of the sets sold were created in two separate segments; one for video and one for audio (many kits and the RCA low-end TT5 receiver were video).

6) The FCC was still studying TV 'standards' with an announced intention of adopting final technical rules preparatory to authorizing commercial TV operation. All stations were licensed as experimental and prohibited from accepting commercial (paid for) messages. The RMA, with FCC urging, had formed the NTSC (National Television Standards Committee) and ultimately at least 140 individuals had 'engineering input' as to how the 'final standards' should be configured.

7) CBS was on record as NOT favoring the commercialization of TV at that time citing a list of reasons (to follow). Virtually every other firm in electronics was in favor of TV being authorized for commercial operation.

Thus late in 1940 it appeared that within the foreseeable months to come, the FCC would finalize standards and commercial TV would be authorized. Into this situation:

Dr Peter C. Goldmark, Chief Engineer for CBS Labs, announced to the press he had devised a "color television system" (RADIO NEWS December 1940 et al). His system was an adaptation of an experimental 1929 system first displayed in public by Dr Herbert E. Ives of Bell Labs and prior to that, created originally by English TV pioneer Baird (1928). The heart of the system was a rapidly spinning disc covered in equal parts (1/3rd each) with tinted segments of red, blue and green plastic.

Broadcasting Magazine (September 1, 1940) headlined, "New Color Television System Developed Secretly by CBS." It began with the sort of intrigue which the broadcasting industry loved to repeat.

"After six months of secret research, CBS on Aug. 29 announced development of what was described as a simple system of sending and

receiving television images in full color. Paul W. Kesten, CBS vice-president, explained the color pictures demonstrated used the same 6 mc. frequency band required for ordinary black and white telecasting. He also indicated that the apparatus developed in conjunction with the new color technique was comparatively simple, and that ordinary television receivers, with very little adaptation and addition of a color attachment, could receive the signals."

Goldmark claimed to be the "inventor" of the system but evidence suggests he was "adapting," not inventing in 1940. Radio-Craft for July 1942 reported on public demonstrations given by English television developer J. L. Baird as follows:

"In 1936 Baird showed a 12 foot (screen size) color picture to a motion picture audience at the Dominion Theatre, the picture being transmitted from the (BBC's) Crystal Palace transmitter. This was followed in 1939 by a demonstration of color, using a cathode ray tube in conjunction with a revolving disc. In the apparatus demonstrated, the frame frequency was increased from 50/second to 150/second, the scanning altered to a field of 100 lines interlaced five times to give a 500 line picture, successive 100 line frames being colored green, red and blue. At the transmitter, a cathode ray tube was used in conjunction with photo-electric cells, the moving light spot being projected upon the scene transmitted." Baird was also adapting his system to demonstrate "stereoscopic images" in color and the viewer was required to wear special glasses to view the 3-D effect. Of note: Baird's decision to increase the frame rate to allow "time" and "room" for the trio of colors transmitted; Goldmark would do the same in 1940.

CBS demonstrated the Goldmark system before a wide variety of groups including (the) NTSC, IRE and FCC. In these demonstrations, CBS raised a number of questions centered around the basic query - "Is it prudent to be adopting standards for black and white television and authorizing commercial operation of this 'interim' technology when the CBS Goldmark system is 'just around the corner'?" Goldmark's 1940 laboratory configuration required significantly more bandwidth (16 Mc/s) per (color) TV channel than the NTSC recommended 6 Mc/s for black and white. CBS challenged the industry to decide whether "prematurely adopting a 6 Mc/s channel system was proper when these channels might become obsolete as color was phased in." His 16 Mc/s closed circuit bandwidth system was of greater definition than his over the air demonstrated 6 Mc/s

bandwidth system but the two often blended when he or CBS spoke of their performance.

This had the potential to derail inauguration of commercial (black and white) TV. The FCC was depending upon the NTSC to solidify the many competing recommended black and white standards and out of this decision process would come - amongst other technical factors - the channel allocations. If channels were to be 16 Mc/s wide each, the low band TV channel region which was the first to be put to use for "commercial TV" would accommodate not more than 2 TV channels of which only one could be assigned to a single market. CBS in response to this certainty suggested that, "all TV should be operated in the UHF band where there is room for approximately 26 TV channels - each 16 Mc/s in width."

Thus CBS had raised not one but two issues each of which had the capacity to totally halt the authorization of (black and white) NTSC television; channel bandwidth, and, which portion of the frequency spectrum would be home for TV broadcasting.

In December 1940 CBS stepped up its "Color Now!" campaign by enlisting a number of well known people to "speak out" about the "advantages of color TV over black and white." The list included such luminaries as Charlie Chaplin and each enthusiastically endorsed the CBS color system as "TV worth waiting for." The CBS public relations department was adept in placing these "news stories" in virtually all major newspaper and magazine publications.

The early Goldmark demonstrations were of questionable proprietary. First, they consisted of film-only pickups; showing motion pictures through the color system. Goldmark was widely quoted in the trade press explaining, "Film pickup is actually more complex than live camera television; I have elected to solve the more difficult problem first." When pressed on this statement by technically competent reporters, he admitted, "I have not yet created a working color TV camera" (1940).

The actual technology employed in the pre-World War Two demonstrations is also in some dispute. Initial showings were at CBS laboratories (New York City) and there is no record indicating CBS had filed for an FCC experimental (UHF) TV license to test the system through the air using the UHF channeling which a 16 Mc/s bandwidth required. Goldmark in "Maverick Inventor" would, 33 years after the period in question, maintain he did over the air testing using the CBS TV W2XAX experimental transmitter

(Chrysler Building, NYC). RCA developmental engineer George H. Brown seems to verify this testing by explaining in his own techno-biography, "and a part of which I was," that, "in 1940 CBS was scanning 343 lines in each frame with 60 complete frames or 120 fields per second." What was happening here was we had Goldmark's "paper design system" which he and CBS argued would have to be at UHF because of the 16 Mc/s bandwidth required, and then Goldmark's actual low definition service using the transmitter facility of W2XAX. There is no suggestion, in the trade press of the time nor in FCC records, that CBS ever transmitted color images using more than 343 lines of resolution prior to the end of World War Two. The effect was an illusion: CBS was demonstrating higher definition images only through a closed loop hard wired system with what amounted to a laboratory curiosity but in their public statements elevating the system to a fully functional, broadcast tested service. This subterfuge was also noted by RCA and other engineers who found many of Goldmark's engineering explanations beyond comprehension. "Maverick Inventor" indicates Goldmark first demonstrated his field sequential color system at the CBS Laboratory in June 1940 to CBS management on a 3 inch screen enhanced with a magnifier placed in front of the screen.

Goldmark in *Maverick Inventor* partially admits our conclusions here when he explains (in his own defense of people like Brown) why 343 line sequential color was not low definition. "Although addition of color theoretically may take away detail from a black-and-white picture, in practice the information in the picture is enhanced because many objects are more recognizable through their color content. Even two objects that are close together, such as an orange flower and a turquoise flower, will tend to fuse in black and white because they appear to the eye in the same shade of grey. In color, on the other hand, they are easily differentiated."

When designing content for demonstrations given to the press, the FCC, members of Congress and influential business people, great care was taken to create images which did just that - appear grey and washed out on the black and white monitor that was ideally placed side by side to the color monitor.

RCA was caught flat-footed by the sudden CBS color announcement and correctly feared that if allowed to go unchallenged could derail nearly ten years of efforts to turn TV into a home product. Their first responses were feeble, defensive, but probably honest:

1/ RCA had also been working on a color system.

2/ The system's status in late 1940 was described as a "laboratory curiosity" which perhaps was a carefully chosen phrase as most industry engineers were using the same phrase, privately, to describe the Goldmark system.

3/ Performance by those outside of RCA who had seen pictures on a screen was described as "poor."

Heading into 1941, Goldmark continued to make demonstrations including an early one for a delegation of FCC Commissioners and engineers (September 4, 1940) who enthused about what they saw. One FCC engineer who had been witness to both the CBS and RCA systems at that stage of evolution told the press, "There is no comparison between the two - CBS is the winner." FCC Chairman Larry Fly did, according to Goldmark, take him aside after the demonstration to offer a suggestion - mandate, actually. "If you wish to pursue this as an option for FCC consideration, we will have to see live camera TV as well using your system."

Meanwhile pressure on the NTSC group and the FCC to settle on "standards" increased and in May 1941 agreement was reached at NTSC. There would be 441 lines of video (some would draw comparisons with the BBC's 405 line system), FM sound (a victory for FM promoter Major Armstrong) and 6 Mc/s bandwidth channels. The FCC took these recommendations under study and in June 1941 announced their final standards decision: 525 lines, FM sound. Donald Fink ("Principals of Television Engineering," McGraw Hill) would later explain, "Allen B DuMont, who had perhaps the best credentials in the world for the video display portion, was urging 625 lines and FM sound. RCA's W2XBS and Don Lee's W6XAO programming transmissions had largely been made with 343/306 (and later 441) lines of video and those (few) who had seen the BBC 405 line images were enthusiastic about the improvement in video definition when a greater bandwidth was employed. The NTSC wrestled between DuMont's 625 lines, an alternate 507 line system and RCA's 441, and RCA won."

But the FCC bought some of what DuMont was saying and as Fink would further explain, "525 lines was a compromise made during a

series of last minute telephone exchanges between FCC engineers and people such as myself." In fact, although there were some technical reasons for any line standard and many arbitrary line standards would not work properly, it was Fink himself who ultimately resolved the question at the 11th hour with the 525 line number.

The FCC also established July 1, 1941 as the "first date of commercial television in America." RCA's W2XBS experimental station operating in the 44 - 50 Mc/s channel 1 was relicensed as WNBT but had moved to 50 - 56 Mc/s; CBS had been holding experimental license W2XAB/W2XAX for the Chrysler Building and the FCC granted them permission to use 60 - 66 Mc/s as WCBW (later to become WCBS-TV). Philco's W3XE was converted to WPTZ using 66 - 72 Mc/s although its official FCC sanction did not occur until September 14 (1941). No other stations received FCC permission to engage in "commercial operation" prior to the onset of World War Two (December 1941). There are many conflicting news stories concerning what viewers actually saw in New York City on July 1, 1941 and we'll leave that aspect of early TV operation for another chapter (in August 1941, CBS asked the FCC for a further "extension of the program test authority" it had requested late in June - indicating it was not ready to commit to the FCC's mandatory 15 hours per week requirement).

CBS continued their anti-commercialization posture even after the FCC made their decision. One press release issued in June 1941 included, "We are against premature commercialization" and they went on to cite "manpower and equipment shortages in the ramp-up to (world) war." They concluded, "CBS remains committed to the adoption of the NTSC format but would liked to have had provisions therein for color television."

Radio News for August 1941 admonished CBS's interest in color. "We couldn't help but feel that the sudden high pressure ballyhoo for color television by CBS was a sort of Technicolor red herring designed just to bide time until they have charted their course for more active participation in the video art." CBS in the same issue promised, "a tour of the Metropolitan Museum of Art (in New York City) with a color TV camera."

(TO BE CONTINUED)

A Closer Look at IBOC (“HD-Radio”)

TIM McVEY

Since many in the club have been talking about IBOC, it seemed like a good time to take a look at it. On the next couple of pages you will see what the spectrum of an FM station looks like with and without the new digital service.

IBOC stands for *In-Band On-Carrier*, and is promoted as “HD-Radio” (a trademark and technology licensed by Ibiquity Inc. of Columbia, MD). IBOC is designed to transmit a data stream using the same antenna and transmitter as an existing FM station, **at the same time** as the traditional analog broadcast. In this way, Ibiquity claims that no new spectrum is needed, and a transition from analog to digital can occur gradually over time. The data consists of stereo audio (said to be near-CD quality), plus other information such as ID3 tags.

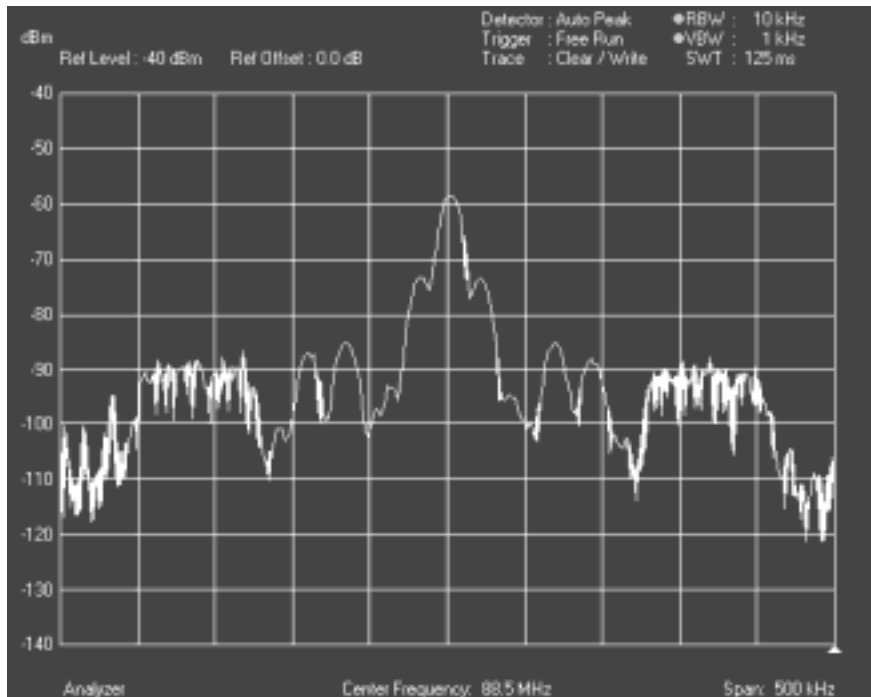


Figure 1: WAMU-88.5

There are currently three stations in Washington, DC transmitting IBOC. These are WAMU-88.5, WETA-90.9, and WHUR-96.3. I set up a Rohde & Schwarz FSH-3 spectrum analyzer with 10kHz resolution b/w. A discone at 40 feet above ground was the antenna. I had to listen for a quiet time in the broadcast and then manually trigger the sweep in order to get a relatively unmodulated signal.

Figure 1 shows WAMU-88.5. You can see the main carrier, the 19-kHz pilot about 15dB down, a 67-kHz SCA carrier about 28dB down, a 92-kHz SCA carrier about 30dB down, and the IBOC sidebands about 30dB down. (They don't have RDS.) This is a busy transmitter! From this spectral plot, one can clearly see how the IBOC signals make it much more difficult to hear weak signals on the adjacent channels (88.3 and 88.7 MHz). For this case they are 20-25dB above the noise floor of the analyzer!

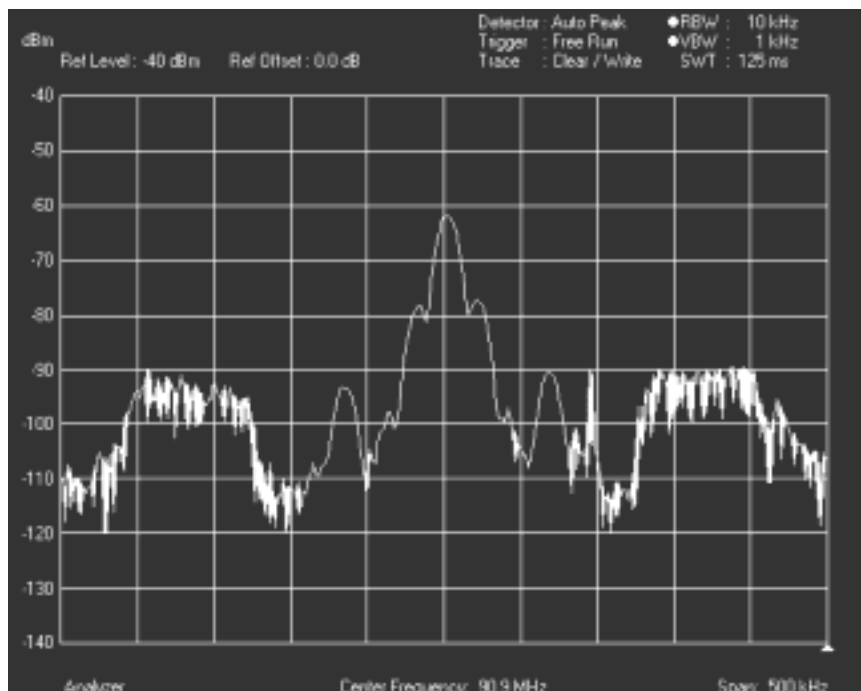


Figure 2: WETA-90.9

The next plot is of WETA, the main NPR station here and one of the first stations nationwide to have IBOC. The structure is identical to WAMU, except this station only has the 67-kHz SCA carrier, and no RDS. (Ignore the blip of energy at 95kHz upper.) Note that at this location (Warrenton, VA), one can normally hear near-fringe WMRA Harrisonburg VA, on 90.7 in stereo. This is now impossible.

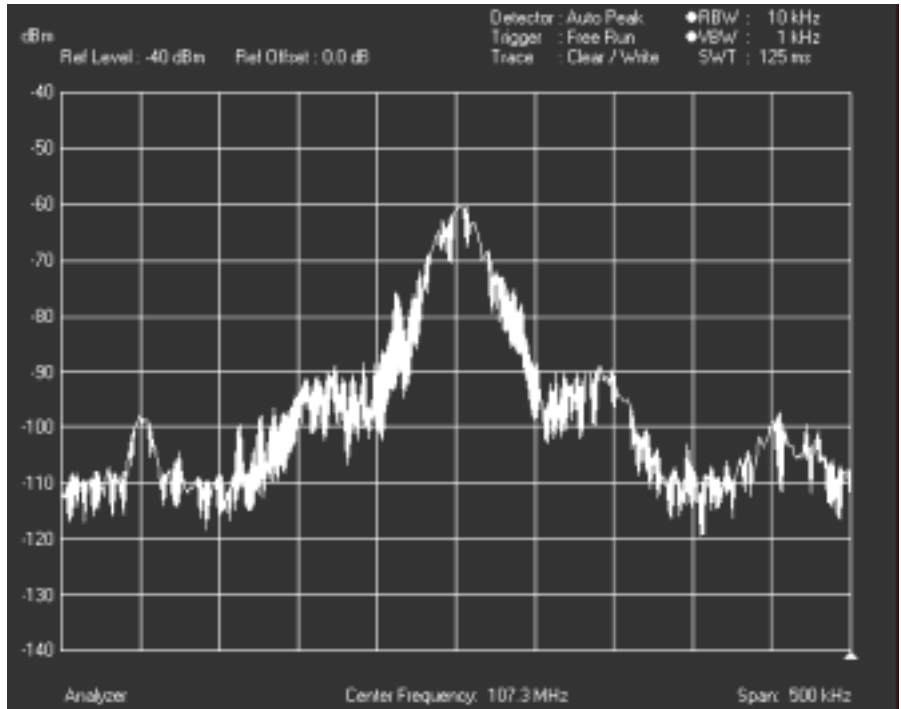


Figure 3: WRQX-107.3

What does a station look like without IBOC? The next plot is from WRQX-107.3. This station is rather old-fashioned: it has no IBOC, SCA, or even RDS! You can clearly see the adjacent channels (WTDK-107.1 Federalsburg, MD about 90 miles away, and WKHI-107.5 Fruitland, MD some 100 miles away). Those fringe stations are only about 10dB above the noise floor of the analyzer. If the analyzer were a stereo tuner, these stations would be received in noisy stereo.

I did a capture of WHUR-96.3, but didn't include that plot here because it looks just like the other two. Note with all three stations the IBOC sidebands are flat, constant, and 30dB below the main carrier.

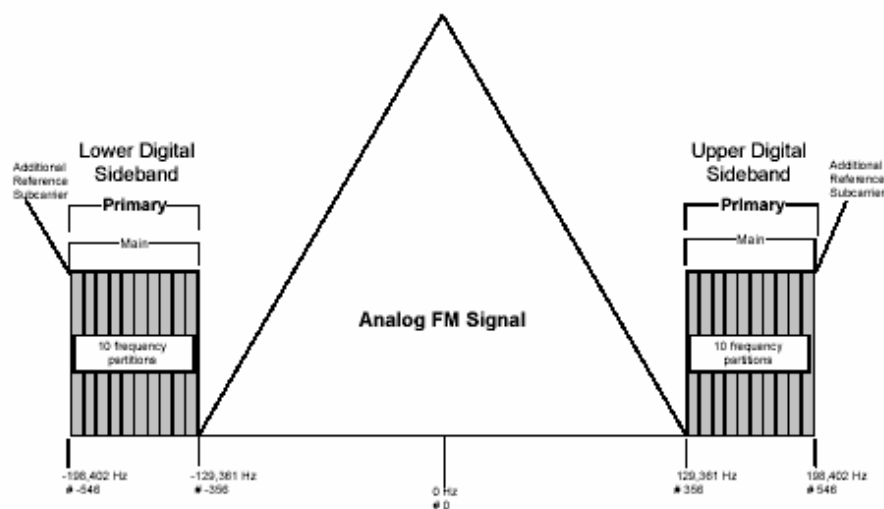
Out of curiosity, I did a test to see if the capture ratio behavior of an FM tuner is any different with IBOC stations. There was practically no difference.

At this time, there are only three tuners (all car units) on the market that decode it, and each of them costs \$1,000. I do not have one of these, so I can't listen in. Note that without an Ibmiquity-licensed "HD-Radio" decoder, it is impossible to listen to the proprietary IBOC signals. The broadcasts are free, however.

Ibmiquity's website (<http://www.ibmiquity.com>) contains a lot of technical information, as well as propaganda about their technology. The white papers are informative and the station lists include just over 100 active FM stations in the US.

Figure 4: Spectrum structure (from Ibmiquity white paper, available at http://www.ibmiquity.com/technology/pdf/Waveforms_FM.pdf)

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