



RISE OF THE -TDT!



**MANY MORE ANALOG SIGNOFFS IN MEXICO
29 OF 31 STATES NOW HAVE DIGITAL TV SERVICE**

AND WHAT ABOUT E-SKIP? MEXICO'S AMs ARE BECOMING FMs

The Official Publication of the Worldwide TV-FM DX Association



METEOR SHOWERS

Alpha Centaurids

JAN 28 – FEB 21

Gamma Normids

FEB 25 – MAR 22

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Out In The Fringes (1949)**

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, KEITH MCGINNIS AND MIKE BUGAJ.



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PAGE TWO

The Page You Turn To for news of the WTFDA and the TV/FM DX World

Mike Bugaj - mikebugaj@wtfda.org

February 2015

Welcome to the VUD for February. Once again, there appears to have not been a winter Es season. We found one or two small openings during the first few days of January, but that was all. We also found some meteor dx loggings and just a little bit of tropo dx. The Bulletin Board loggings for the first two weeks of January should be in this issue, so take a look for yourself.

MEMBERS AND MORE

During the period from 12/27/14 to 1/23/15 we received renewals from **Rich Rose** (MI), **Roger Sabella** (IL), **Aaron Mitterling** (IN), **Rick Shaftan** (NJ), **Matt Sittel** (NE), **Charly Gauthier** (QC), **Cal Glover** (NC), **Craig Healy** (MA) and **Kaimbridge** on the North Shore(MA). Thanks everyone for your support of the WTFDA.

DB.WTFDA.ORG

Some of you will recognize the above address as the WTFDA's Searchable Online Directory of North American Radio Stations and at this time we're happy to announce that Jim Thomas (of Emisoras de FM) has become our newest editor.

Jim's main interest is the Mexican FM station database, and over the past week he has made some major upgrades to that end. If you go to the database and type "XH" in the callsign field and then click "search", you will see what I mean. The database now has a complete listing of stations' slogans and many formats have been added. The latitude and longitude (in degrees, minutes and seconds) has been added for all cities and towns in Mexico (correct to city centers) to make distance calculations easier. And remember that the Mexican database also contains RDS information for many stations thanks to information supplied by editor Fred Nordquist. We've spent many hours this week improving the Mexican portion of the database to make it easier for you to ID your Mexican unids. We know you all are using the database. Now you have one more reason to use it.

FINANCES

In 2013 we ended the year with \$2033 in our Citizens Bank account. We ended 2014 with \$2137 in our account. Printing and postage expenses dropped considerably since we went to a digital

VUD in July. Printing for the year was \$513 with \$259 for postage. Other expenses were the post office box (\$58), a subscription to RadiIntel for \$120 and \$32 for some envelopes for VUDs. This year for expenses we will have the post office box, RadiIntel, Dreamhost (one of our web hosts) and some miscellaneous printing costs and some probable upgrades to the FM database. We'll let you know about them next January.

MEXICO

It seems like we've been talking about Mexico quite a bit lately. As you know, Mexico is in the process of turning off their analog TV signals and turning on their digital TV channels. Thus far it seems that the analog transmitters in Baja California and Tamaulipas have been turned off and that many states will do the same in the next few months.

Here is another of Raymie's excellent posts regarding the shut-down from 22 January:

"Infraestructura UPDATE!

707 TVs (analog shutoffs not reflected) and 380 TDTs listed. That's 24 new stations, and a significant proportion of them are SIMULTANEOUS OPERATION stations! Asterisks indicate we knew of some stations.

Ags +1: XHCGA-TDT 26, 150 kW [State]

BC +2: XHEBC-TDT 26, 38 kW; XHS-TDT 23 (S), 38 kW [Televisa Ensenada]

Camp +1: XHCCA-TDT 30, 10 kW [State]

Chih +2: XHMH-TDT 30, 25 kW, XHOCH-TDT 15 (S), 23 kW [one Parral Televisa local, one Ojinaga Televisa]

Coah +2: XHRDC-TDT 23 (S), 42 kW, XHAMC-TDT 34 (S), 50 kW [Televisa]

Mich +1: XHAPN-TDT 25, 47 kW [Televisa]

Oax +4: XHBN-TDT 29*, 97 kW, XHBO-TDT 32, 102.929 kW, XHOXO-TDT 34*, 97 kW, XHPAO-TDT 21, 76 kW [all Televisa, first three in Oaxaca]

Sin +3: XHMAF-TDT 28*, 118 kW, XHOW-TDT* 25, 118 kW, XHSIM-TDT 21, 218.510 kW [Televisa Mazatlán, IPN Los Mochis]

Son +4: XHCDO-TDT 45*, 130 kW, XHGST-TDT 20*, 46 kW, XHHES-TDT 23 (S), 100 kW, XHHMS-TDT 29 (S), 100 kW [Televisa all of them, and XHGUY is missing.]

Tamps +4: XHCMU-TDT 22 (S), 27 kW, XHCVI-TDT 26* (S), 80 kW, XHUT-TDT 36*, 80 kW, XHGO-TDT 42*, 80 kW [Televisa: Cd. Mante, Cd. Victoria x2, Tampico]

There are signs of additional digital stations that could be on in Apatzingán, Cd. Mante, Tehuantepec/Palma Sola and in northern Mexico. (S) stations will usually broadcast in digital overnight.

If you are seriously interested in this topic, please visit the WTFDA forums at forums.wtfda.org to stay informed. You will find Raymie's excellent blog in the Chat Room forum, the OPMA is Changing thread. It's worth the visit.

AND THEN...THERE'S THIS...

We are not through with Mexico yet. Mexico is in for even more changes as they transition their AM stations over to the FM band! In a post to our mwdx email list, Glenn Hauser writes "AM stations of under 1 kW must continue on FM only; AM stations of more than 5 kW have the option of moving only to FM or continuing on both (This does not make sense. And what about stations at exactly 1 or 5 kW???) The previous cutoff was 10 kW. Stations in Hidalgo del Parral, Chihuahua which do not meet the power requirements will have to close down AM on January 15. 25 kW mentioned is the typical power (ERP?) of new FM replacement transmitters. This story mixes in with the television digital transition which ought to be an entirely separate matter (Glenn Hauser, DX LISTENING DIGEST)".

Well, if you think the FM band is crowded now, wait a while.

AND SO...

I recently saw a map of the US and Mexico on the internet and the line drawing the southern border was missing. Hmm.

That's it for this month. See you next month.
-Mike



TV News

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<http://www.w9wi.com>

February 2015

Abbreviations:

AF	A ppled F or (a new station)	NW	N ew station on the air
Aux	A uxiliary (backup) transmitter	PA	P roposed A mendment
CC	C allsign change	PC	P ower (and/or tower height) change on the air
CL	C ity-of-license change	PG	P ower change g rant
CX	C anceled	PR	P ower change r equested
DC	C onverted to D TV	RA	R eturns to the air
DCC	D igital C ompanion C hannel	QC	Channel (?frequency??) change on the air
NS	Granted flash-cut to DTV	QG	Channel change g rant
DCC		QR	Channel change r equested
DE	License/permit d eleted	RE	R einstated (previously-dismissed app.)
DR	R equests flash-cut to D TV	ROA	R equest of A pplicant
FC	Programming (?format??) change	SI	Off the air (? s ilent??)
FTP	F ailure to P rosecute	STA	S pecial T emporary A uthority
GA	G rant a mendment (to table of channel allotments)	XC	Transmitter site c hanged
LC	License to C over	XG	Transmitter site change g rant
MX	M utually E xclusive	XR	Transmitter site change r equested
NDA	N on- d irectional antenna	lpdtv	Low Power Digital TV
NS	Permit granted for n ew station	DRT	D igital R eplacement T ranslator
DG	G rant e d conversion to D TV		

News:

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



CANADA



British Columbia

Campbell River 13 **CHEK-TV-5 CX ROA**
Port Alberni 11 **CHEK-TV-3 CX ROA**
Vancouver 32 **CIVT-DT PR 33kw/ 725m, 49-21-26/ 122-57-13**



Newfoundland & Labrador

St. John's 8 **CBNT-DT PR>17.1kw**



Ontario

Warton 2 **CKCO-TV-2 CX ROA**



Puerto Rico

Mayaguez 5 **W05CY NW 3kw, 18-09-03/ 66-59-21 (Telecinco)**



USA



Alabama
Huntsville

17 W17DJ DG from W38BQ,
2.77kw, 34-44-13/ 86-31-59



Alaska

Aleknagik	8	K08HU	DR
Anchorage	41	KLDY-LD	CC from K41DP
Barrow	11	K11NN	DR
Cold Bay	13	K13UO	DR
Cooper Landing	8	K08KO	DG
Juneau	6	NEW-lptv	NS 50w, 58-18-13/ 134-24-38 (Ketchikan TV)
Kodiak	15	K15AT	DR
Kotzebue	13	K13UE	DR
Koyuk	9	K09SA	DG
Kwethulk	11	K11QY	DG
Kwigillingok	13	K13UK	DG
Lake Louise	9	K09TU	DG
Larsen Bay	9	K09QE	DG
Levelock	7	K07TT	DG
Lime Village	7	K07TH	DG
McGrath	9	K09QC	DG
McKinley Park	3	K03GK	DG
Manley Hot Springs	13	K13TN	DG
Marshall	7	K07TK	DG
Mekoryuk	9	K09NI	DG
Mentasta Lake	7	K07SQ	DG
Metlakatla	11	K11QZ	DG
Minto	13	K13TK	DG
Moose Pass	15	K15AP	DG
Mountain Village	13	K13TJ	DG
Napakiak	13	K13UV	DG
Nelson Lagoon	9	K09QM	DG
New Stuyahok	13	K13TO	DG
Newtok	4	K04MT	DG
Nightmute	10	K10LU	DG
Noatak	9	K09NG	DG
Nondalton	2	K02LJ	DG
Noorvik	4	K04IK	DG
Nuiqsut	9	K09RT	DG
Nulato	4	K04JF	DG
Old Harbor	13	K13RN	DG
Ouzinkie	7	K07QY	DG
Paxson	4	K04MQ	DR; DG
Pedro Bay	13	K13SV	DR; DG
Pelican	4	K04LB	DR; DG

Perryville	9	K09NK	DR; DG
Petersburg	15	K15AF	DR
Pilot Point	9	K09NO	DR; DG
Pilot Station	15	K15AU	DR; DG
Pitkas Point	4	K04MW	DR; DG
Platinum	13	K13UJ	DR
Point Baker	4	K04MV	DR; DG
Point Hope	9	K09QN	DR; DG
Point Lay	4	K04IT	DR; DG
Port Alsworth	13	K13TU	DR
Port Graham	13	K13SC	DR
Port Heiden	13	K13SA	DR
Port Lions	9	K09SR	DR
Quinhagak	13	K13SK	DR; DG
Red Devil	2	K02LA	DR; DG
Ruby	4	K04KU	DR; DG
Russian Mission	11	K11SB	DR; DG
St. George	9	K09RE	DR; DG
St. Marys	7	K07RK	DR; DG
St. Michael	9	K09QX	DR; DG
St. Paul	9	K09RB	DR; DG
Sand Point	9	K09RA	DR
Savoonga	7	K07RD	DR; DG
Scammon Bay	7	K07SR	DR
Selawik	2	K02JU	DR; DG
Shageluk	10	K10KH	DR
Shaktolik	7	K07QU	DR; DG
Sheep Mountain	8	K08KM	DR; DG
Sheldon Point	3	K03GP	DR; DG
Shishmaref	9	K09RZ	DR; DG
Shungnak	9	K09NH	DR
Skagway	11	K11QE	DR
Slana	13	K13SM	DR
Sleetmute	12	K12MD	DR
Stebbins	4	K04LE	DR
Stevens Village	9	K09SV	DR
Stony River	13	K13SE	DR
Takotna	4	K04LN	DR
Tanana	7	K07RB	DR
Tatitlek	9	K09NE	DR
Teller	9	K09RO	DR
Tenakee Springs	10	K10KG	DR
Tetlin	7	K07SP	DR
Togiak	9	K09QU	DR
Toksook Bay	11	K11QG	DR
Tuluksak	8	K08ID	DR
Tanunak	9	K09SW	DR
Unalakleet	9	K09RC	DR
Unalaska	4	K04KV	DR
Venetie	9	K09TW	DR
Wainwright	4	K04IR	DR
Wales	4	K04MN	DR
Whales Pass	7	K07SI	DR
White Mountain	13	K13TD	DR
Wrangell	15	K15AJ	DR
Yakutat	9	K09UA	DR

**Arizona**

Casas Adobes 4 K04QP PC>2kw
 Gila River Indian 19, KGRF-LD CC from K19JV &
 Co. 29 KGRQ-LD K29KP
 Gila River Indian 21 KGRY-LD NW 7kw, 33-01-49/
 Co. 111-34-29 (Gila River
 Tele-communications);
 Prescott 14 K14HC PC>1.8kw, 34-29-25/
 112-32-02

**Arkansas**

Bentonville 14 KHMFC-CA DR from 26, 10.05kw;
 DG
 Fayetteville 16 KAJL-LD XR 36-08-50/ 94-11-14
 dismissed
 Hot Springs 14 KQPS-LD PR>10kw, 34-47-57/
 92-29-30

**California**

Ontario 30 KCIO-LD NW 100w, 34-15-19/
 117-21-43 (Obidia
 Porras)
 Redding 16 K16IW PR>5kw
 San Luis Obispo 24 KKFx-CA DC 325w

**Colorado**

Denver 26 KCEC **QR from 51, 549.5kw/
 244m**
 Fort Collins 25 KPXH-LD FC to Daystar
 Fort Morgan 20 K20KE PC>10kw, 40-12-38/
 104-12-52
 Grand Junction 7 KGBY **CC back (again) from
 KJCT...**

**District of Columbia**

Washington 22 WMDO-LD QG from 8, 1.1kw

**Florida**

Daytona Beach 50 WPXB-LD FC to Daystar
 Key West 4 WMDF-LD XR 25-46-19/ 80-11-30
 dismissed
 Key West 49 WKIZ-LP DR 250w, 24-33-18/81-
 48-05
 Port Charlotte 27 WBKH-LD PR>10kw, 27-20-09/82-
 28-19
 Ocala 35 W35CZ PR<6kw dismissed but
 refiled
 Panama City 33 W33DA PR>15kw
 Wabasso 33 W33DB XG 27-33-19/80-22-06

**Georgia**

Albany 23 W23DU PG>6kw
 Athens 12 WDNV- LD CC from W12DO
 Athens 26 W26EM PG>15kw, 34-12-01/
 83-25-44
 Athens 38 WVND- LD CC from W38EP
 Atlanta 9 WEQT-LD XR 33-44-41/ 84-21-36;
 CL from Gainesville
 Augusta 20 W20CZ PC>4kw
 Augusta 35, W35CU, PC<6kw
 46 W46EK
 Augusta 43 W43CX PR>15kw
 Blairsville 36 WBUD-LP AF 1kw, 34-14-15/ 84-
 09-27; DCC for analog
 38
 Dublin 35 W35BB DC 15kw, 32-34-31/82-
 52-02
 Gainesville 48 WFUB-LD CC from W48DR
 Savannah 26 WDID-LD PR<6kw

**Idaho**

Nampa 6 NEW-lptv NS 300w, 43-43-49/
 116-07-19 (One
 Ministries)

**Illinois**

Champaign 24 W39BH AF 4.4kw; DCC for
 analog 39
 Chicago 40 WESV-LD PG>15kw
 Dixon 6 NEW-lptv NS 300w, 41-59-46/ 89-
 12-11 (KM Comms.)
 Rockford 47 WYCH-LD XR 41-52-48/ 88-55-30

**Indiana**

Fort Wayne
Indianapolis
Lafayette
Marion
Terre Haute

29 W29DX PR<2.5kw
51 WIPX-LP FC to Daystar
35 W35CY PG<6kw
15 W15CZ PG<6kw
28 W28DZ PG<6kw

**Iowa**

Des Moines

8 KCCI NW 34.28kw/ 155m,
41-35-35/93-37-48
(aux)

**Kansas**

Topeka

25 KCKS-LD XR 38-53-23/ 95-17-17
(site is just south of
Lawrence)

**Kentucky**

Bowling Green

35 WCTZ-LD PC<4kw

**Louisiana**

Lafayette

43 K43MS PR<3kw

**Massachusetts**

Boston
Dennis

40 W40BO FC to Daystar
33 WMPX-LP FC to Daystar

**Michigan**

Detroit

33 W33BY DC 4kw, 42-24-29/
83-05-30

Detroit

48 W48AV FC to Daystar
25 WLAJ-TV PA from 51, 483.3kw/
300m

**Minnesota**

Rochester

15 K15JM PR>15kw

**Mississippi**

Lumberton

33 W33DT XG 30-37-13/ 89-30-34

**Missouri**

Columbia

6 K06PT NS 300w, 38-56-12/ 92-
20-02 (Live Sports
Radio)

Farmington
Rolla

18 KDKZ-LD XR 37-47-54/ 90-33-42
6 NEW-Iptv NS 300w, 37-57-54/ 91-
47-01 (Alma Corp.)

Springfield
West Plains

15 K15CZ DC 15kw
38 K38HE DC 15kw

**Nebraska**

Hastings

Lexington
Lincoln

5 KNHL CC from KHAS-TV
35 KAQY-LP CC from K35AL
14 K14NW PR>10kw; dismissed
but refiled

**Nevada**

Reno

5, 6 NEW-Iptv NS 300w, 39-35-03/
119-47-52 (Alma Corp.)

**New Hampshire**

Claremont

47 WVMA-CD CC from W47ES

**New Mexico**

Chamita 6 K06PR NS 300w, 36-05-52/
106-07-20 (Available
Media)
Farmington 32 K32JT PG>1.25kw, 36-41-51/
108-13-19
Radium Springs 6 K06QK NS 3kw, 32-58-04/ 107-
13-37 (One Ministries)

**New York**

Amityville 12 WPXU-LD FC to Daystar
Ellenville 30 W30AZ PC<100w, 41-39-38/
74-41-11
New York 6 WNYZ-LP DR dismissed but
refiled

**North Carolina**

Sylva 2 W02AF DR 50w
Wilmington 22 W22DQ PG<2kw; PC
Wilmington 24 W24DP XR 34-05-52/ 77-58-18
Wilmington 26 W26DR PC<2kw, 34-07-53/ 78-
11-17
Wilmington 43 WADA-LD PC>6kw
Wilmington 49 W49DH PG<1kw; PC

**North Dakota**

Bismarck 26 KNDB CC from KNDX
Minot 24 KNDM CC from KXND

**Ohio**

Akron 29 WAOH-LP DC 15kw
Canton 21, W21DI, PG>6kw
25, W25EK,
27 W27DL
Canton 43 W43DB PG<6kw

**Oklahoma**

Poteau 50 KSJF-CA DC 1.758kw, 35-04-
05/94-40-59

**Oregon**

Eugene 6 NEW-lptv NS 300w, 44-00-07/
123-06-53 (Mako
Communications)
Medford 32 K32DY PR<14.2kw; PG
Portland 42 KPXG-LD FC to Daystar

**Pennsylvania**

Kittanning 29 WBOA-CD PG<13.56kw, 40-26-23/
79-43-11

**South Carolina**

Florence 44 W44CU PR>10kw
Myrtle Beach 14 W14DJ XR 33-35-28/ 79-02-54

**Tennessee**

Kingsport 19 WKPZ-CA AF 15kw, 36-31-36/ 82-
35-13; DCC for analog
4 in Pennington Gap,
Virginia
Memphis 15 WWWN-LP CC from W15CH
Nashville 20 WNPX-LP FC to Daystar

**Texas**

Austin 23 KXLK-CA DC from 40, 15kw, 30-
19-23/ 97-47-59
Brownwood 13 KZAU-LD XC 31-16-06/ 98-27-29
Corpus Christi 16 KXCC-CA AF 15kw; DCC for
analog 45
Denison 23 KQDA-LD NW 15kw, 33-59-23/
96-23-45 (Hispanic
Family Christian
Network)

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FM NEWS for CANADA and USA

FEBRUARY 2015

BILL HALE
FMNews@wtfda.org

INDEX OF ABBREVIATIONS USED IN FM NEWS

APP: application	\$: Stereo
APP Mod: Change to an already submitted application	SS: Spanish language
Class: FM license class	STA: Special Temporary Authorization
CoL: City-of-License	XL: Transmitter Location change to
CP: construction permit (authority to broadcast with facilities noted)	> : change to [in formats]
CP Mod: change to an already granted CP	< : an increase to [in technical data]
DA: directional antenna	> : a decrease to [in technical data]
FF: French language	[]: Calls in brackets signifies assumed or applied-for status

Note: antenna heights are HAAT except where noted



— CALL LETTER ACTIONS —

	<u>Old Call</u>	<u>New Call</u>
AB Strathmore	104.5 CP	CKOV-FM
QC Saguenay	98.3 CKRS-FM	CILM-FM

— FORMAT and SLOGAN CHANGES —

ON Stratford	107.7 CHGK-FM	> CHR: 2DAY FM
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GRANTS TO EXISTING STATIONS

ON Wasaga Beach	97.7 CHGB-FM	<u>CP granted for:</u> < 700 W/100 m DA; XL to 44-28-51/80-00-55; Class A; \$
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APPLICATIONS FROM EXISTING/PROPOSED FACILITIES

		<u>Applies for:</u>
BC Smithers	93.9 CICK-FM	50/< (-) 50 m/XL to 54-46-56/127-09-27 [relocate to CBRS-FM tower]
BC Vancouver	95.3 CKZZ-FM	> 57 kW/> 595 m DA, XL to 49-21-11/122-57-23; Class C; (to) M
BC Vancouver	100.5 CFRO-FM	11 kW/< 578 m DA, XL to 49-21-13/122-57-26; Class C; \$
BC Vancouver	102.7 CKPK-FM	< 95 kW-H/> 604 m DA, XL to 49-21-13/122-57-26; Class C; \$
MB Virden	103.3 CJVM-FM	50 W/37 m, 49-50-52/100-56-00 requests temporary facilities until new site for their new station can be constructed

NB Campbellton ON Dryden	103.9 CIMS-FM 100.9 CBQH-FM	15.2 kW (adds H)/> 200 m DA, 48-04-17/66-41-45; Class B; \$ > 1.3 kW/> 100 m, XL to 49-47-01/92-48-26; (to) Class A; Mono [The CBC says the existing tower is deteriorating but did not explain why it's also seeking a downgrade, though it cited budget cuts.]
ON Orangeville	103.5 CIDC-FM	< 100 kW/< 222 m (to) DA, XL to 43-35-17/79-53-02; (to) Class C1; \$ [As part of the application, they have also applied for permission to activate an HD signal at 10% (10kw). HD1 would simulcast the CIDC-FM analog signal; HD2 would simulcast CIAO-530 Brampton; HD3 would simulcast CIRR-FM 103.9 Toronto. Currently, Canadian stations require CRTC permission to activate HD, and such permission is currently experimental only.]
ON Scarborough ON Windsor	102.7 CJVF-FM 97.5 CBEW-FM	< 38 W/< 70 m (to) DA, XL to 43-48-41/79-13-34; move to 105.3 < 19 kW/130 m DA, 42-09-12/82-57-11; Class B; Mono



APPLICATIONS FOR NEW FACILITIES

Applies for:

ON Maynooth ON Stratford	94.7 CKJJ-FM5 107.1 APP	32 W/76 m; 45-11-58/77-55-11; Class LP; \$ 4 kW/33 m DA, 43-21-52/80-57-38; Class A; \$ [would replace Cxxx-1240]
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DENIALS AND DISMISSALS

MB Winnipeg	92.9 APP	Application for a new facility with 1.8 kW/56 m, 49-55-19/98-09-57, Class A; Mono has been dismissed [The CRTC ruled that another ethnic radio station in the market (CKJS-810) has had limited revenue growth and the modest Hindi/Punjabi and Tagalog populations in Winnipeg, an added station there would be highly challenged]
ON Brechin	96.9 APP	Application for a new facility with 25 kW/88 m DA, 44-39-40/79-05-58; Class B1; \$ has been dismissed [The CRTC expressed concern that the proposed station would have an undue negative impact on existing stations serving the neighbouring markets of Orillia, Bracebridge and Gravenhurst. The station would have offered a Easy Listening/Adult Contemporary music format]

— OTHERNEWS —

AB Rimbey	93.3 VF8020	License cancelled; call deleted per licensee's request
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UNITED STATES AND TERRITORIES



— CALL LETTER ACTIONS —

FULL POWER STATIONS

	<u>Old Call</u>	<u>New Call</u>		<u>Old Call</u>	<u>New Call</u>
AL Maplesville	106.3 WLGD	WZNN	FL St. Augustine Beach	105.5 WALE	WBHU
CA Pine Hills	89.7 CP	KIPE	FL Windermere	103.1 WHKQ	WOTW
CO Colorado City	103.1 KJQY	KLEZ	ID Emmett	101.9 KDBI	KPDA
CO Crook	88.7 KOOW	KVEE	ID Homedale	106.3 KQTA	KDBI
CO Fleming	100.1 KSIK	KCGC	IL Chicago	95.5 WNUA	WEBG
CO Estes Park	102.1 KRKY-FM	KGRE-FM	IL Dorsey	89.5 WARW	WEEQ
CO Fort Collins	88.3 KGCO	KRKY-FM	KS Newton	92.3 KFTI-FM	KKGQ

MS Calhoun City	102.3	WZNN	WLGD	TX Comfort	95.1	KGSX	KCOR-FM
MS Grenada	101.3	WMUT	WKGF		and then . . .	KCOR-FM	KMYO
MS Sardis	102.1	KBUD	WKFF	TX Port Lavaca	93.3	KITE	KNAL
MT Helena	105.3	KMTX-FM	KMTX	TX San Antonio	107.5	KXTN-FM	KMYO
NY Altamont	104.9	WZMR	WINU		and then 7 days later . . .	KMYO	KXTN-FM
NY Remsen	93.5	WOKR	WARW	VA Lawrenceville	105.5	WVNC	WHLQ
NC Boiling Springs	88.3	WRZM	WLXK	WA Glenoma	90.1	KZFL	KCFL
NC Moyock	92.1	WKSA	WHBT-FM	WA Hoquiam	89.5	KCFL	KBSG
SC West Columbia	100.1	WVOC-FM	WXBT				

LPFM STATIONS

		<u>Old Call</u>	<u>New Call</u>			<u>Old Call</u>	<u>New Call</u>
AL Oxford	95.9	CP	WOXI-LP	NE Scottsbluff	95.1	CP	KCTH-LP
AL Tuskegee	100.7	CP	WUBZ-LP	NV Las Vegas	107.1	CP	KIQ-LP
CA Atascadero	103.9	CP	KRUR-LP	NH Franconia	105.1	CP	WNEY-LP
CA Biola	104.3	KJOU-LP	KJOI-LP	NJ Newton	97.5	CP	WAMS-LP
CA Redlands	107.3	CP	KLLQ-LP	NY Binghamton	99.5	CP	WBDY-LP
CA Santa Barbara	96.9	CP	KVSB-LP	NC Red Oak	105.5	CP	WHFK-LP
CA Watsonville	99.9	CP	KDUB-LP	NC Forest City	104.1	CP	WVVE-LP
CA Yuba City	93.3	CP	KETQ-LP	NC Raleigh	106.7	CP	WSMU-LP
CO Canon City	93.3	KBBA-LP	KOAV-LP	NC Southport	100.7	CP	WJSL-LP
CT New Haven	103.5	CP	WNHH-LP	NC Wilmington	103.1	CP	WJSS-LP
CT Simsbury	103.5	CP	WSIM-LP	ND Belcourt	98.9	CP	KXYM-LP
FL Belle Isle	99.9	CP	WDDT-LP	OH Cincinnati	105.5	CP	WCXX-LP
FL Coconut Creek	104.7	CP	WYUN-LP	OH Columbus	94.1	CP	WGRN-LP
FL Miami	104.7	CP	WAYG-LP	OH Toledo	106.1	CP	WAKT-LP
FL Windermere	103.1	WHKQ	WOTW	OK Tulsa	90.1	KFMY-LP	KJZT-LP
ID Emmett	101.9	KDBI	KPDA	OR Beaverton	98.3	CP	KFFP-LP
IN Fremont	103.7	CP	WG00-LP	OR Eugene	97.3	CP	KEPW-LP
IN South Bend	105.7	CP	WETF-LP	OR Portland	99.1	CP	KSFL-LP
KY Hyden	102.5	WYZQ-LP	WWBZ-LP	PA Erie	107.9	CP	WBTB-LP
KY Manchester	95.1	WXZL-LP	WWZB-LP	PA Hazleton	99.3	CP	WCDH-LP
LA Bossier City	107.9	CP	KIVD-LP	PA York	95.7	CP	WJSI-LP
MA Belchertown	97.9	CP	WAIY-LP	RI Coventry	95.1	CP	WWRI-LP
MA Boston	102.9	CP	WBCA-LP	TN Greeneville	105.3	CP	WRJH-LP
MA Easton	96.5	CP	WREQ-LP	TN Rosemark	105.1	CP	WTRA-LP
MA Springfield	102.5	CP	WZCS-LP	TX Bangs	90.9	CP	KBNG-LP
MD Bethesda	96.7	CP	WXYE-LP	TX Friendswood	95.3	CP	KEPH-LP
MI Grand Rapids	97.3	CP	WJWC-LP	TX Galveston	99.7	CP	KLHG-LP
MI Grand Rapids	103.7	CP	WSNH-LP	TX Mission	93.9	CP	KVHJ-LP
MN Minneapolis	97.9	CP	WRYA-LP	VA Arlington	96.7	CP	WERA-LP
MN St. Paul	94.1	CP	KHSH-LP	VA Huddleston	100.5	CP	WRHH-LP
MS Clarksdale	88.1	CP	WXXO-LP	WA Kent	100.3	CP	KUCP-LP
MS Mayhew	92.7	CP	WGTC-LP	WV Ravenswood	92.5	CP	WUCH-LP
MO Kansas City	98.5	CP	KUAW-LP	WV Saint Albans	106.9	CP	WAXE-LP
NE Omaha	100.3	CP	KCUF-LP				

TRANSLATOR and BOOSTER STATIONS

		<u>Old Call</u>	<u>New Call</u>			<u>Old Call</u>	<u>New Call</u>
AR Fort Smith	94.1	K232BX	K231BS	NY Easton	93.3	CP	W227CY
CA Halloran Springs	91.5	K217GF	K218FJ	NY Hornell	95.1	W289AR	W236CP
CA Rosamond	89.9	K212DL	K210EW	NC Cary	93.5	W227CU	W228CZ
CO Cedar Cove	88.3	KGCO-FM1	KRKY-FM1	NC Winston-Salem	101.5	W267AM	W268CG
CO Divide	107.3	K294CH	K297BQ	ND St. John	91.9	K274BY	K220KB
CO Fort Collins	102.1	KRKY-FM2	KGRE-FM2	OH Mansfield	92.5	W225BR	W223CF
CO Longmont	102.1	KRKY-FM3	KGRE-FM3	OR Corvallis	92.9	K224EU	K225CC
CO Walsenburg	92.5	APP	KCRT-1	PR Carolina	92.1	WYAS-1	WYAS-FM1
FL West Palm Beach	104.7	W262AE	W284CR	SC Charleston	94.7	W220CN	W234CJ
GA Brunswick	91.7	W218BK	W219DU	SC Florence	88.9	W206AR	W205CN
GA Macon	93.1	W278BV	W226BZ	TX Brownfield	92.3	K219LP	K222CQ
IL Canton	97.7	W277AQ	W249CZ	UT Amalga	97.3	K250AV	K247CG
ME Richmond Center	94.3	W233BE	W279CU	UT Hyde Park	107.7	K246AW	K299BO
MN Moorehead	96.9	W247CC	W245CM	UT Shivwits	104.1	K268BT	K281CE
NV Las Vegas	89.3	APP	KAER-2	WY Laramie	101.3	K269FU	K267BU
NV Spring Valley	95.1	K207DU	K236BM	WY Laramie	107.3	K298AE	K297BP

— FORMAT AND SLOGAN CHANGES —
Full Power Stations

AL Holly Pond	96.9	WRSA-FM	New slogan is: <i>Mix 96.9</i>	
AL Maplesville	106.3	WZNN	> Sports: <i>ESPN 106.3</i>	
AR Texarkana	107.1	KTFS-FM	> Hot AC: <i>107.1 The Fox</i>	
AZ Flagstaff	100.1	KVNA-FM	> AA: <i>100.One</i>	
AZ Meadview	107.9	KVGS	> Hot AC: <i>Star 107.9</i>	
CA Palm Desert	103.1	KEZN	New slogan is: <i>Sunny 103</i>	
CA Paradise	96.7	KZAP	Changes slogan to: <i>96.7 KZAP</i>	
CA Pine Hills	89.7	KIPE	Signs on with Unavailable Format	
CA San Lucas	90.3	KCTZ	Returns to the air with Spanish Contemporary Christian: <i>Radio Resplandecer</i>	
CA San Luis Obispo	89.3	KLFF	Changes slogan to: <i>Life 89.3</i>	
CA Tulare	91.9	KPSV-FM	Returns to the air with Unavailable Format	
CO Bennett	107.1	KXDE	> Classic Hip-Hop: <i>FLO 107.1</i>	
CO Pueblo	106.9	KLCX	Returns to the air with Contemporary Christian: <i>K-Love</i>	
CT Hartford	102.9	WDRC-FM	> Classic Rock: <i>102.9 The Whale</i>	
FL MacClenny	92.1	WJXR	> Spanish Tropical: <i>Latina 92.1</i>	
GA Calhoun	94.5	WIPK	> Urban Contemporary: <i>Streetz 94.5</i>	
GA McRae	102.7	WYSC	> Classic Hits	
GA Reynolds	96.9	WFVS-FM	Signs on with Variety	
GA Sasser	88.3	WUTU	Returns to the air with Variety: <i>WUTU Community Radio</i>	
GA Warrenton	93.1	WCHZ-FM	> Classic Hip-Hop: <i>Hot 95.5/93.1</i> [95.5 is W238AU Augusta]	
ID Emmett	106.3	KDBI	> Regional Mexican: <i>La Gran D</i>	
ID Troy	100.5	KQZB	> Classic Hits: <i>Hits 100</i>	
IL Chicago	95.5	WEBG	> Country: <i>Big 95.5</i>	
IL Fairfield	104.9	WFIW-FM	> Classic Hits: <i>Classic Hits 104.9</i>	
IL Harvard	88.9	WCNM	Returns to the air with Religious Teaching: 'Truth Heard In Black & White - Without Compromise' [Calvary Radio Network]	
IL Peoria	92.3	WZPW	New slogan is: <i>Peoria's 92.3</i> remaining Rhythmic CHR	
IL Quincy	103.9	WQCY	> Adult Contemporary: <i>Q104</i>	
IN French Lick	100.1	WFLQ	Changes network to: Westwood One - Hot Country	
IN Muncie	104.9	WERK	> Soft AC: <i>The New Sound</i>	
IN South Whitley	101.1	WMYQ	Returns to the air with Unavailable Format	
IN Worthington	94.1	WLZT	Signs on with Unavailable Format	
IA Marshalltown	88.7	KRFH	Returns to the air with Contemporary Christian: <i>The Dove 91.9 FM</i> // KTDV 91.9 State Center	
KS Kansas City	98.1	KMBZ-FM	> Talk; no longer // KMBZ-980 Kansas City, Missouri	
KS Newton	92.3	KKGQ	> Hot AC: <i>Q-92</i>	
LA New Iberia	93.7	KYFJ	Returns to the air with Religious Teaching [Bible Broadcasting Network]	
MD Snow Hill	101.1	WRYD	> Country: <i>101 Nash Icon FM</i>	
MI St. Johns	92.1	WQTX	> Sports: <i>92.1 The Ticket</i>	
MN Edina	96.3	KTWN-FM	> Alternative: <i>Go 96-3 FM</i>	
MN New Ulm	88.3	KJTS	> Spanish Religious: <i>Radio Moody</i> [Radio Moody Espanol]	
MN Sunburg	106.5	KLFN	Adds network: Westwood One - Classic Hits	
MO Neosho	99.7	KBTN-FM	Changes slogan to: <i>Real American Country</i>	
MO New London	105.9	KZZK	> Classic Rock: <i>The Grizz</i>	
NE Humboldt	90.1	KOWH	Returns to the air with Classic Hits	
NY Altamont	104.9	WZMR	> Sports: <i>Win 104.9</i> [CBS Sports Radio]	
NY Hornell	92.1	WCKR	Changes slogan to: <i>Nash Icon 92.1</i>	
NY Ogdensburg	98.7	WPAC	Adds slogan: <i>Super Hits Pac 98.7</i>	
NY Rome	96.1	WODZ-FM	New slogan is: <i>96.1 The Eagle</i>	
NC Moyock	92.1	WKSA	> Classic Hip-Hop: <i>92.1 The Beat</i>	
NC Nashville	99.3	WZAX	> Classic Rock: <i>99.3 Rock City</i>	



NC Smithfield	102.3	WFNL-FM	Returns to the air with Country: <i>Country Superstars 102.3</i>
NC Walnut Creek	97.7	WZKT	> Country: <i>KD Country 97.7</i>
OH Fremont	99.1	WFRO-FM	Adds network provider: Westwood One-Adult Contemporary
LA Addis	105.5	KDDK	Changes slogan to: <i>La Nueva 105.5</i>
OK Caney	90.1	KWEZ-FM	Returns to the air with Spanish Religious: <i>Radio Ebenezer</i>
OR Jordan Valley	90.9	KGCL	Returns to the air with Spanish Religious: <i>Radio Nueva Vida</i> [Radio Nueva Vida]
OR Lees Camp	88.7	KTFH	Returns to the air with Unavailable Format
OR Prineville	107.7	KWXS	> CHR: <i>107.7 The Beat</i>
TN Humboldt	105.3	WHPP	> Classic Hits: <i>Hippie Radio 105.3</i>
TX Corpus Christi	93.9	KMXR	> Classic Hits: <i>Big 93.9</i>
TX Laughlin AFB	106.9	KDRX	> Country: <i>106.9 The Outlaw</i>
TX Mountain Home	103.7	KAXA	Adds slogan: <i>The Buck</i>
TX San Antonio	107.5	KXTN-FM	Changes slogan to: <i>KXTN Tejano 107.5 FM</i>
UT Salt Lake City	94.1	KODJ	Changes slogan to: <i>KODJ 94.1</i> , remaining Classic Hits
VA Bedford	106.9	WZZI	Changes slogan to: <i>Mix 93.7/106.9</i>
VA Luray	105.7	WMXH-FM	Returns to the air with Oldies: <i>Bright Radio 105.7</i>
VA Lynchburg	88.3	WRVL	> Christian Music: <i>The Journey 98.3</i> [includes the Liberty University network: WVRL 88.3 Elizabeth City, WVRD 90.5 Zebulon, WVRP 91.1 Roanoke Rapids, WVRH 94.3 Norlina and WVRA 107.3 Enfield (all North Carolina) and WVRI 90.9 Clifton Forge, Virginia, plus 17 translators in North Carolina and Virginia]
VA Lynchburg	93.7	WKHF	Changes slogan to: <i>Mix 93.7/106.9</i>
WI Merrill	104.1	WMZK	> Classic Rock: <i>Z-104</i>



LP Stations

AL Decatur	98.5	WZDK-LP	Signs on with Variety
AR Jonesboro	102.5	KLEK-LP	Signs on with Variety
CA Denair	107.3	KVHH-LP	Signs on with Religious Teaching
GA Camilla	94.5	WMCZ-LP	Signs on with Variety
GA Forsythe	107.3	WNRF-LP	Signs on with Variety
IL Dixon	104.3	WLPL-LP	Signs on with Religious Teaching
KS Great Bend	100.1	KSDH-LP	Signs on with Religious Teaching
KY Madisonville	100.7	WPJP-LP	Signs on with Religious Teaching [EWN]
MS Monticello	101.3	WDRO-LP	Signs on with Religious Teaching
MN Saint Cloud	97.5	KVEX-LP	Signs on with '90s Alternative: <i>Radio X</i> [St. Cloud State University]
MS Iuka	101.3	WIUK-LP	Signs on with Variety
MO Salem	96.5	KSOZ-LP	Signs on with Religious Teaching
OH Cambridge	101.9	WBPS-LP	Signs on with Variety
OH Hillsboro	106.9	WLRU-LP	Signs on with Religious Teaching [EWN]
OH Tiffin	103.3	WSJG-LP	Signs on with Religious Teaching [EWN]
PR Cabo Rojo	98.1	WZCL-LP	Signs on with Spanish Religious
WV Richwood	101.7	WXTH-LP	Signs on with Religious Teaching



Translators

AL Montgomery	100.5	W263BX	> Classic Hip-Hop: <i>Yo 100.5</i> // WQKS-FM HD2 96.1 Montgomery
CA North Highlands	107.1	K296GB	> Alternative: <i>Alt 107.1</i> // KQJK HD2 93.7 Roseville
CT Milbrook	102.1	W271BW	> Classic Rock: <i>Rock 102</i> // WKCI-FM HD2 Hamden
FL Daytona Beach	104.7	W284AV	> Classic Rock: <i>The Rock of Daytona</i>
FL Tallahassee	94.3	W232BO	> Hot AC: <i>94.3 My FM</i> ; remains // WNLS-1270 Tallahassee
GA Atlanta	94.5	W233BF	> Urban Contemporary: <i>Streetz</i> // WIPK 94.5 Calhoun

GA Augusta	95.5	K238AU	> Classic Hip-Hop: <i>Hot 95.5/93.1</i>
IL Chicago	103.9	W280EM	Signs on with Smooth Jazz: <i>103.9 The Groove</i> // WTMX-HD2 101.9 Skokie
IA Council Bluffs	102.3	K272FE	> Rock: <i>Rock 94-9 and 102-3</i> // KFFF-HD2 93.3 Bennington, Nebraska
NE Omaha	94.9	K235CD	> Rock: <i>Rock 94-9 and 102-3</i> // KISO-HD2 96.1 Omaha
NY Middleton	99.9	W260CH	> Country: <i>Wild Country 99.9</i>
NC Burlington	95.1	W236BO	> Country
SD Rapid City	104.7	K284BA	> '80s centric' Classic Hits: <i>Smash Hits 104.7/920</i>
WI Milwaukee	100.3	W262CJ	> Rhythmic Oldies: <i>The All New Party, 100.3 FM and 1290 AM</i>



Your help is needed to fill in these “Unavailable Format” listings. If you live within earshot of, travel through their area, or DX any, report their format. Thanks.

— FM and AM SIMULCASTS —

AK Anchorage	96.7	K244EG	Is heard on: KHAR-590 Anchorage with Sports: <i>Sports Radio 96.7 and 590 AM</i>
FL Daytona Beach	104.7	W247AV	WROD-1490 Daytona Beach
MO Kansas City	103.7	K279BI	KCMO-710 Kansas City with News/Talk
NV Winnemucca	104.5	K283AP	KWNA-1400 Winnemucca, NV: <i>Pure Gold 1400 and 104.5</i>
NC Walnut Creek	97.7	WZKT	WSSG-1300 Goldsboro with Country: <i>KD Country 97.7</i>
NC Burlington	95.1	W236BP	WPCM-920 Burlington-Graham
SD Rapid City	104.7	K284BA	KKLS-920 Rapid City



— TRANSLATOR STATION AFFILIATIONS —

NY Easton	93.3	W227CY	<u>Power / Ant Ht</u> 1 / 20 #	<u>Relays:</u> WNGN 91.9 Argyle [Northeast Gospel Broadcasting Inc]
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Translator power levels are in Watts;
Antenna heights are HAAT, except where noted # when the height is AGL

— NEW BOOSTER STATIONS GRANTED —

CT New Haven	¹ 103.5	CP	<u>Power / Ant Ht</u> 100 / 1	<u>Licensee:</u> Online Journalism Project, Inc.
CT New Haven	¹ 103.5	CP	100 / (-) 5	Pequenas Ligas Hispanas De New Haven Inc
NH Franconia	105.1	CP	100 / (-) 85	Neskaya
WA Seattle	98.5	CP	10 / 93	Iglesia Casa De Milagros

¹ - Time Share Agreement: OJP will operate from 0400-1600 Monday-Friday, 0400-1000 and 2200-2400 on Saturday, and 0001-1000 and 1700-2200 on Sunday; PLHNN will operate all other hours

— APPLICATIONS FOR NEW BOOSTER STATIONS —

CO Walsenburg	92.5	KCRT-1	<u>Power (kW) / Ant Ht</u> .17 / 17	<u>Applicant:</u> Phillips Broadcasting, Inc
NV Las Vegas	89.3	KAER-2	11 DA (0°) / 15	Educational Media Foundation

* - Antenna Heights for Booster stations are AGL

— NEW LPFM STATION GRANTS —

			<u>Power (Watts)/Ant Ht</u>	<u>Licensee:</u>
AL Pelham	93.3	CP	100 / 16	North Shelby Community Radio
AZ Old Pascua Village	100.7	CP	50 / (-) 32	Pascua Yaqui Tribe
AZ Tucson	90.1	CP	50 / (-) 18	Iglesia Centro De Sanidad
AZ Tucson	91.7	CP	50 / 6	Global Change Multi-media
AZ Tucson	100.1	CP	50 / (-) 11	Xerocraft Inc.
CA Albany	100.1	CP	7 / 109	Golden Gate Society for Coatings Technology
CA Napa	103.3	CP	100 / (-) 90	Jean Arnold Group Foundation
CA Petaluma	103.3	CP	100 / (-) 61	Petaluma Community Access
CA San Diego	93.7	CP	38 / 49	San Diego Catholic Radio
CA Santa Barbara	96.9	KVSB-LP	100 / (-) 148	South Coast Community Media Access Center
CA Santa Rosa	³ 92.3	CP	100 / 13	Redwood Justice Fund
CA Santa Rosa	³ 92.3	CP	100 / 13	Santa Rosa Community Media Access Center, Inc.
CA Sonoma	103.3	CP	100 / (-) 151	Sonoma Charter School
CA Vallejo	106.5	CP	100 / 30	St. Vincent Ferrer Parish
CA Watsonville	99.9	KDUB-LP	100 / (-) 30	Power Broadcasting
CA Wildomar	104.9	CP	50 / (-) 152	Cornerstone Community Church
CA Winterhaven	105.1	CP	50 / (-) 2	AH-MUT Pipa Foundation
CA Yuba City	93.3	KETQ-LP	88 / 32	Queens Avenue Community Church
CT New Haven	103.5	WNHH-LP	100 / 1	Online Journalism Project, Inc.
CT Simsbury	103.5	WSIM-LP	100 / 20	Simsbury Fire District
DE Hockessin	95.3	CP	15 / 54	Sanford School
DE Wilmington	95.3	CP	100 / 26	Afro-american Historical Society of Delaware
FL Belle Isle	99.9	WDDT-LP	17 / 71	Education Through Media Foundation, Inc.
FL Miami	104.7	WAYG-LP	90.2 / 31	Calvary Chapel Miami
IL Chicago	98.3	CP	33 / 52	Sound of Hope Radio NFP
IN Jeffersonville	98.5	CP	100 / 28	Greater Clark County Schools
IN South Bend	105.1	CP	80 / 34	Holy Cross College, Inc.
KS Kansas City	100.7	CP	20.3 / 65	Iglesia Pentecostal Casa de Dios Para las Naciones Inc
KY Frankfort	104.1	CP	100 / 12	Woods and Waters Land Trust
LA Bossier City	107.9	KIVD-LP	100 / 25	Ministerio Evangelico Vision De Dios
MD Bethesda	96.7	WXYE-LP	63.5 / 38	Chinese American Community Connection, Inc.
MD Bowie	94.3	CP	4.7 / 137	The Bridge Foundation Corporation
MA Belchertown	97.9	WAIY-LP	100 / 12	Dwight Chapel Inc.
MA Boston	102.9	WBCA-LP	14.1 / 78	City of Boston
MA Easton	96.5	WREQ-LP	25 / 59	Easton Community Access Television Inc.
MA Haverhill	97.9	CP	24 / 61	Public Media of New England, Inc.
MA Lawrence	98.1	CP	17 / 71	St. Patrick Parish Lawrence Educational Radio Association
MA Winchester	99.9	CP	26 / 58	Winchester School of Chinese Culture
MI Flint	102.1	CP	60 / 39	Greater Flint Arts Council
MI Grand Rapids	103.7	WSNH-LP	64 / 38	Iglesia Sanando Las Naciones
MI Kalamazoo	98.9	CP	10 / 91	Catholic Information Center of Southwest Michigan
MI Michigan	103.7	CP	64 / 38	Iglesia Sanando Las Naciones
MN Minneapolis	97.9	WRYA-LP	100 / 1	African Community Senior Services
MN Saint Paul	94.9	CP	54 / 41	Victoria Theatre Project
MS Mayhew	92.7	WGTC-LP	100 / 30	East Mississippi Community College
MO Kansas City	104.7	CP	22 / 63	Mutual Musicians Foundation, Inc
MO Kimberling City	95.1	CP	4 / 104	Kimberling City Adventist Radio
MO Webster Groves	92.9	CP	100 / 30	Webster-Rock Hill Ministries
NE Omaha	100.3	KCUF-LP	20 / 68	Gospel Music Omaha
NE Omaha	⁵ 101.3	CP	11 / 88	Malcolm X Memorial Foundation
NE Omaha	⁵ 101.3	CP	11 / 88	North Omaha Loves Jazz Cultural Arts and Humanities Complex
NE Scottsbluff	95.1	KCTH-LP	100 / (-) 20	Christ the King Catholic Church of Gering and Scottsbluff
NV Las Vegas	107.1	KIYQ-LP	100 / (-) 15	Reading, Writing, Arithmetic, Inc.
NJ Mays Landing	107.9	CP	76 / 35	Atlantic Cape Community College
NY Albany	106.9	CP	100 / 14	Green Education & Legal Fund Inc.
NY Binghamton	99.5	WBDY-LP	15 / 77	The Bundy Museum of History & Art
NY Schenectady	95.9	CP	50 / 34	Troy Bike Rescue Inc.

NY Troy	92.7	CP	24 / 61	Oakwood Community Center, Inc.
NY Troy	105.3	CP	100 / 26	Media Alliance
NC Forest City	104.1	WOVE-LP	64.3 / 37	The Community Empowerment Project Community Development Corp
NC Greensboro	107.9	CP	22 / 63	Greater Greensboro Broadcasting Team
NC Holly Springs	106.7	CP	85.6 / 32	Christian Fellowship Center
NC Raleigh	106.7	WSMU-LP	100 / 19	Centro Cristiano El Sermon Del Monte
NC Red Oak	105.5	WHFK-LP	76 / 35	Northern Nash High School
NC Southport	100.7	WJSL-LP	96.3 / 30	Sacred Heart Radio Association
NC Wilmington	103.1	WJSS-LP	73.2 / 35	St. Jude Radio Association
ND Belcourt	98.9	KXYM-LP	38.5 / 48	Two Hearts Radio
OH Cincinnati	105.5	WCXX-LP	15 / 76	24-7 Broadcasting, Inc.
OH Cleveland	95.9	CP	100 / 12	Burten, Bell, Carr Development, Inc.
OH Columbus	⁴ 96.7	CP	100 / 28	Ohio Hispanic Coalition
OH Columbus	⁴ 96.7	CP	46 / 43	Christian Media, Incorporated
OH Toledo	96.5	CP	100 / 26	Nuestra Gente Community Projects
OH Toledo	106.1	WAKT-LP	28 / 56	Toledo Integrated Media Education, Inc.
OR Beaverton	98.3	KFFP-LP	100 / (-) 6	Freeform Portland
OR Portland	101.5	CP	11 / 86	Cascade Community Radio
PA Hazleton	99.3	WCDH-LP	12 / 88	La Casa Dominicana De Hazleton, Inc.
PA Middletown	95.5	CP	100 / (-) 10	Middletown Area Bible Church
PA Philadelphia	² 92.9	CP	100 / 25	South Philadelphia Rainbow Committee Community Center, Inc.
PA Philadelphia	² 92.9	CP	45 / 45	G-Town Radio
PA Philadelphia	² 92.9	CP	45 / 45	Germantown United Community Development Corporation
PA Philadelphia	² 92.9	CP	45 / 45	Germantown Life Enrichment Center
PA Philadelphia	106.5	CP	90 / 20	Philadelphia Public Access Corporation
PA York	95.7	WJSI-LP	75 / 234	City of York
RI Coventry	95.1	WWRI-LP	24 / 59	The Marconi Broadcasting Foundation
RI Providence	¹ 101.1	CP	100 / 12	Brown Student Union
RI Providence	¹ 101.1	CP	100 / 12	AS220
RI Providence	¹ 101.1	CP	100 / 12	Providence Community Radio
SC Columbia	107.1	CP	100 / 29	St. Joseph Catholic School
SC Orangeburg	106.1	CP	61 / 39	South Carolina State University
TN Greeneville	97.9	CP	16.3 / 73	Our Father's Business, Inc.
TN Murfreesboro	93.5	CP	100 / 23	Remnant Broadcasting Corporation
TN Rosemark	105.1	WTRA-LP	100 / 30	Tipton - Rosemark Academy, Inc
TX Bangs	90.9	KBNG-LP	29.1 / 54	Bangs Church of Christ
TX Friendswood	95.3	KEPH-LP	87.9 / 32	Calvary Chapel Southeast Houston
TX Galveston	99.7	KLHG-LP	100 / 30	Iglesia La Hermosa
TX Mission	93.9	KVHJ-LP	50 / 40	Templo Pentecostal-cristo Jesus La Solucion
VA Arlington	96.7	WERA-LP	2.8 / 181	Arlington Independent Radio
VA Huddleston	100.5	WRHH-LP	100 / 24	Huddleston Community Radio Inc.
WA Deer Park	94.1	CP	100 / 15	Queen of Peace
WA Kent	100.3	KUCP-LP	100 / 13	Ukrainian Church of Evangelical Faith
WV Ravenswood	92.5	WUCH-LP	21.6 / 63	Mountain State Community Radio Inc
WV Saint Albans	106.9	WAXE-LP	5 / 137	Coal Mountain Broadcasting, Inc

¹ - Time-and-Transmitter share agreement: BSR - 84 hours/week; AS220 - 74 hours/week; PCR - 10 hours/week

² - Time-and-Transmitter share agreement : schedule is too involved to print here [SPRCCC has its own facility]

³ - Time-and-Transmitter share agreement: RJFund - 0400-1600 daily; SRCMAC - 1600-0400 daily

⁴ - Time-and-Transmitter share agreement: no sharing agreements appear in the applications

⁵ - Time-and-Transmitter share agreement: no sharing agreements appear in the applications

— APPLICATIONS FOR NEW LPFM STATIONS —

			<u>Power (Watts)/Ant Ht</u>	<u>Applicant:</u>
AK Lowell	104.5	APP	78.2 / 34	Iglesia Ciudad De Refugio
AL Jacksonville	96.3	APP	1.4 / 292	Calhoun County 9-1-1 District
AL Montgomery #	98.3	APP	14.3 / 77	Equality Broadcasting Network
FL Citrus Park	101.9	APP	94.6 / 31	Hispanic Arts of Tampa

FL Fort Myers	94.9	APP	27.2 / 56	Radio Free Fort Myers, Inc.
FL Fort Myers	99.7	APP	23.2 / 61	Premiere International Cares, Inc
FL Jacksonville	96.5	APP	100 / 18	Trout River Community Broadcasters
FL Miami	94.3	APP	54.4 / 41	RETE 105 Miami
FL Northport	97.5	APP	100 / 30	Community Broadband Radio Association, Inc.
FL Sanford	98.5	APP	61.6 / 38	Spring Meadows Broadcasting, Inc.
FL Southchase	105.5	APP	32.1 / 52	New Voice of Central Florida, Inc
FL Tampa	105.1	APP	96.9 / 30	Latino Heritage Organization, Inc.
FL Tampa	106.9	APP	100 / 14	Tabernacle of Zion Apostolic Church
FL West Palm Beach	98.3	APP	100 / 0	Centro De Vida Inc
FL Winter Park	101.5	APP	42.6 / 46	Running with Time Communication, Inc.
GA Albany	101.3	APP	55.6 / 40	St. Teresa Catholic School
GA Augusta	104.9	APP	13.6 / 80	Augusta Community Radio, Inc.
GA Gainesville	105.5	APP	100 / 29	Georgia Audiophile Club
GA Lawrenceville	102.7	APP	41.9 / 46	Somar Communications Inc.
GA Savannah	96.1	APP	100 / 27	Savannah Adventist LPFM
MS Jackson	107.9	APP	100 / 28	Mississippi Catholic Radio, Inc.
NE Omaha #	101.3	APP	11 / 88	North Omaha Loves Jazz Cultural Arts and Humanities Complex
OK Edmond	99.3	APP	14 / 79	UCentral Student Radio - University of Central Oklahoma
OK Norman	95.5	APP	43.1 / 45	University of Oklahoma
OR Portland #	101.5	APP	11 / 86	Cascade Community Radio
TX Brownsville	99.1	APP	47 / 44	Immaculate Heart Cenacle Association
TX Conroe	104.5	APP	8.9 / 98	City of Conroe
TX Corpus Christi	92.3	APP	21.4 / 64	Latinos for Education
TX Edinburg	98.9	APP	26 / 58	Voz Profetica Luz a Las Naciones, Inc
TX Hurst #	95.5	APP	100 / 29	Texas Youth Organization
TX Killeen	103.7	APP	72.4 / 35	Kates Media Group, Inc.
TX Fort Worth	97.5	APP	100 / 26	Southside Media Collective
TX McAllen	94.1	APP	10 / 92	Nueva Imagen Community Church
TX Plano #	92.9	APP	71.5 / 36	Calvary Chapel of Dallas d/b/a Calvary Chapel Plano
TX San Angelo	100.5	APP	81.3 / 13	Sunday Morning Glory Radio Inc
TX San Antonio	96.5	APP	100 / 30	Educacional MTY
TX San Antonio	99.1	APP	75.7 / 34	Escuela Radial JS
TX South Houston	92.5	APP	94.4 / 31	Iglesia Centro De Liberacion
TX Tyler #	93.7	APP	71.5 / 36	Ministerio De Dios Pentecostal
TX Tyler	104.9	APP	60.6 / 39	Iglesia De Dios Jesucristo Manantiales De Vida
WA Tacoma	88.9	APP	13.5 / 80	Northwest Leadership Foundation

- Reinstated after initially being dismissed

LPFM power level is in Watts; antenna height is HAAT, except where noted * when it is AGL

— LPFM PETITIONS FOR RECONSIDERATION SUBMITTED —

AL Montgomery	94.5	MA Springfield (2 Apps)	101.7	RI Harrisville	¹ 91.5
CA Glendale	101.5	MA Springfiled	102.5	RI Pascoag	¹ 91.5
DC Washington	94.3	MA West Brookfield	¹ 91.5	WV Mount Hope	106.5
IL Chicago	99.1	MA Witinsville	¹ 91.5		
ME Wells	104.1	PA Philadelphia	106.5		¹ - Competing applications
MA Milford	¹ 91.5	RI Forestdale	¹ 91.5		

— INFORMAL OBJECTIONS FILED AGAINST LPFM APPLICATIONS —

AK Homer	103.5	LA Lake Charles	98.9	TX Grand Prairie	92.9
CA Canoga Park	101.5	NE Alliance	104.9	TX Grand Prairie	95.7
CA El Monte	101.5	TX Beaumont	104.1	TX Houston	94.9
FL Hialeah	99.5	TX Conroe	102.5	TX Houston	101.5
FL Ocala	102.9	TX Conroe	103.3	TX Houston	101.7
KY Covington	101.5	TX Conroe	107.3	TX Houston	104.5
LA Lafayette	104.1	TX Edinburg	97.3	TX Laredo	92.1

TX Lufkin	104.5	TX Pharr	99.9	TX San Antonio	98.1
TX McAllen	103.7	TX Richardson	95.7	TX San Antonio	98.9
TX Mexia	107.9	TX Round Rock	94.3		

— LPFM APPLICATIONS DISMISSED —

CA Glendale	101.5	MO Doniphan	99.5	RI Providence	101.1
CA Los Angeles	107.9	MO Saint Louis	92.9	TX Center	106.1
CA San Diego	93.7	MO St. Louis	92.9	TX Houston	95.3
CA San Diego	106.1	NY Troy	¹ 92.7	TX Plano	104.1
CA Santa Rosa	92.5	OH Garfield Heights	95.9	VA Charlottesville	92.3
FL Palm Beach Gardens	98.3	OR The Dalles	97.7	VA Roanoke	93.9
MA Attleboro	101.1	PA Philadelphia (3 Apps)	92.9		
MS Jackson	102.3	RI Harrisville	91.5		

¹ - Lost to a competing applicant [see New LPFM Station Grants]

— OTHERNEWS —

AK Akiachak	92.7	KHKY	Application accepted for renewal of deleted license
CA San Juan Bautista	95.5	K202DU	License cancelled; call deleted
CA San Lucas	90.3	KCTZ	Is silent
CO Eagle	105.9	K290AZ	License cancelled; call deleted
CO Genoa	106.1	KONK	License cancelled; call deleted
CO Telluride	97.5	K248AB	License cancelled; call deleted
FL Marathon	106.9	W295AN	License cancelled; call deleted
GA Fort Valley	104.3	WFVS-LP	Is silent
IL Harvard	88.9	WCNM	Is silent
IL Milford	91.3	WJCZ	License cancelled; call deleted (license surrendered)
IN Oolitic	88.9	WDCK	Is silent
IA Ames	95.5	K238AN	License cancelled; call deleted
KY Benton	96.3	WXFR-LP	License cancelled; call deleted per licensee's request
KY Richmond	99.5	WKRI-LP	Frequency change from 97.7 [station is not yet on the air]
MN Litchfield	103.3	K277AT	License cancelled; call deleted
MT Three Forks	107.7	KMTZ	Is silent
NM Chama	96.1	KZRM	Is silent
NM Questa	90.3	K212EG	License cancelled; call deleted
NC Tabor City	95.3	W237BO	License cancelled; call deleted
OK Tulsa	90.1	KJZT-LP	Frequency change from 107.9
OR Dayton	102.9	KQSO-LP	Is silent
OR Diamond Lake	107.7	KBDF	License cancelled; call deleted
OR Shady Grove	94.3	KSHD-LP	Frequency change from 99.1
SC Frogmore	91.5	W218CB	License cancelled; call deleted
SC Greenwood	102.7	W274AE	License cancelled; call deleted
TN McKenzie	89.3	WAJJ	Is silent
TX Brookshire	107.9	KBCP-LP	License cancelled; call deleted
RI Pascoag	91.5	CP	New Class B1 station granted with 8.6 kW/19 m DA at 41-57-41/71-39-17 [St. Joseph's Radio Station, Inc.]
SD Huron	105.1	KZKK	Is silent, as it prepares to move to 92.1 (CP with 2 kW vs current 6 kW) and eventually apply to move their transmitter and City-of-License.
TX Mason	95.7	KOTY	Is silent
TX Ozona	102.9	KXON	Is silent
TX San Angelo	98.1	KAGA-LP	Frequency change from 104.3
TX Stamford	94.5	KSTD	Is silent
VA Lawrenceville	105.5	WVNC	Is silent
WA Fall City	98.5	KWJZ-LP	Is silent
WV Beckley	97.9	WVPP-LP	Is silent
WV Matewan	106.7	WVKM	Is silent
WI New Holstein	92.9	KZKQ	License cancelled; call deleted
WY Albin	104.3	KKAW	License cancelled; call deleted
WY Medicine Bow	99.7	KHAN	License cancelled; call deleted
WY Rawlins	107.5	KTDM	License cancelled; call deleted

+++++

NEWS ITEMS:

- ! **Iowa Programmer Faces Deportation**
Canadian-born programmer James Shaman may soon be off his midday show on Fife Communications classic rock "103.7 The Fox" KLKK, Mason City, Iowa. He's gone public with his three-and-a-half year battle to remain in the United States after immigration officials rescinded his green card after they discovered he had a previous criminal record. "This situation is not just about me, there are thousands of people that are in the exact same situation," Shaman tells Facebook followers.
- ! **Compass Media Launches WSJ Replacement Programming**
With the Wall Street Journal shutting down radio operations at the end of 2014, distributor Compass Media Networks is launching their own replacement programming. Gordon Deal, who hosted "Wall Street Journal This Morning" from 5-9am Eastern will segue to "This Morning with Gordon Deal" retaining many of the show's previous affiliates. 60 second long "Your Money Now" reports updated at :20 and :50 after the hour from 6am to 7am Eastern will target stations losing WSJ and Marketwatch business reports. Former Wall Street Journal network morning anchor Jennifer Kushinka will report from 6 am-12 pm, Ray Hoffman from 12-3 pm, and Bruce Vale 3-7 pm.
- ! **Michigan FM receives Heritage Crystal Award**
Lenawee Broadcasting's WLEN 103.9 Adrian, Michigan has entered an elite class of stations, It has been selected to receive the NAB Crystal Heritage Award. The honor recognizes radio stations that have won a total of five Crystal Radio Awards for year-round community service efforts. Only four other stations have received the honor in the history of the NAB Crystal Radio Awards.
- ! **As of December 31, 2014, the FCC is riding herd on 10,727 stations.**



 Thanks to Shawn Axelrod, Tim Noonan, Ralph Strobel, Dan Sys, Radio Insight, and Upper Midwest Broadcasting for news.
 If you hear any changes occur on your FM dial, share the news! 73



CONTINUED FROM PAGE » 8

TV News

Lingleville 31 K31MU XG 32-36-38/ 97-26-06;
 Tyler 50 K50MU PR>15kw, 32-19-21/
 Victoria 7 KBHO-LD XR 29-08-18/ 96-21-25



Virginia
 Richmond 28 WWBK-LD PR<6kw, 37-30-37/
 77-30-19



Washington
 Ellensburg 6 K06QH NS 300w, 47-16-27/
 120-24-18 (Denver Digital TV)
 Pasco 6 K06QD NS 300w, 46-10-17/
 119-12-08 (Luna Foods)
 Yakima 6 K06PU NS 300w, 46-42-41/
 120-37-20 (Luna Foods)



Wyoming
 Laramie 50 KHDE-LD XR 40-08-01/
 105-16-54 dismissed

To be honest I have no idea why the sudden burst of new LPTVs, mostly on channel 6.

It looks like Alaska is done asking the FCC for permission to convert their LPTVs to digital. The Commission hasn't quite caught up yet.



PHOTO NEWS

Jeff Kruszka
 1909 Lost Lake Pl.
 Pearland, TX 77581
 jkruszka@sbcglobal.net

February 2015

Since this is the Worldwide TV DX Association, and I rarely post photos from members outside of the U.S., I think it's time we showed what DX looks like from other countries. Here's a few from Ivan Dias in Sorocaba, Brazil. Ivan uses a Pioneer GEX-1480 DTV receiver, ChannelMaster CM7777 preamp, and Jaycar LT3182 UHF antenna (91 element!) at 10 ft. AGL with RCA VH126R rotator.



RIC TV-49 Londrina, Brazil
 380 km Tropo



CNT-43 Curitiba, Brazil
 281 km Tropo
reads, "weak signal"



EPTV-42 Campinas, Brazil
 78 km (semi local)



Rede Família-44
 Campinas, Brazil 78 km



Rede Vida-18 Maringá, Brazil
457 km Tropo
"personal best distance record"



Record News-46
Campinas, Brazil 78 km
*Odd that they use
English "news"*



Rede Vida-32
Sorocaba, Brazil (local)



RPC TV-42
Londrina, Brazil
380 km Tropo



TV Cultura-38
Campinas, Brazil 78 km



TV Iguaçu-39
Curitiba, Brazil 282 km Tr



TV Sorocaba-35
Sorocaba, Brazil (local)



TV Aparecida-17
Sorocaba, Brazil (local)



TV TEM-26
Sorocaba, Brazil (local)

73's, JEFF



DX Bulletin Board Loggings

for January 1 thru 20, 2015

wtfdadxbb.vci.net

Date/Time (UTC)	Message
Jan 18 17:31	Ms 90.1 WMPR Jackson, MS RDS PS/PI 915 mi de Jeff ON EN93fo
Jan 18 16:06	Ms 89.5 WYFK Columbus, GA perfectly timed ping with TOH legal ID NEW! 791 mi de Jeff ON EN93fo
Jan 18 08:07	Ms 100.1 KWFX Woodward, OK "Ms pest" C&W / RDS 1072 mi de Jeff ON EN93fo
Jan 18 07:33	Ms 96.5 KBYZ Bismarck, ND Joe Walsh tune / RDS 961 mi de Jeff ON EN93fo
Jan 18 07:25	Ms 96.5 KNWC Sioux Falls, SD RDS NEW 771 mi de Jeff ON EN93fo
Jan 17 05:57	Ms 89.1 KUAR Little Rock, AR RDS 844 mi de Jeff ON EN93fo
Jan 17 05:51	Ms 89.1 WLBF Montgomery, AL RDS 813 mi de Jeff ON EN93fo
Jan 17 05:50	Tr 90.1 WORL Harrison, OH "Air One" 358 mi de Jeff ON EN93fo
Jan 15 07:19	Tr WTXL 27 Tallahassee 497 mi de Ed W-KY EM56
Jan 15 05:20	Tr WCTV 46/6 Thomasville GA 498 mi de Ed W-KY EM56
Jan 15 05:00	Tr WRBL 15/3 Columbus GA 375 mi de Ed W-KY EM56
Jan 15 04:40	Tr WAKA 42/8 Selma AL 337 mi de Ed W-KY EM56
Jan 15 04:19	Tr WTWC 40 Tallahassee FL 497 mi de Ed W-KY EM56
Jan 14 22:49	Tr WMAW 44/14 Meridian MS 325 mi de Ed W-KY EM56
Jan 14 15:55	Tr WDBB 18/17 Bessemer, AL at 462 miles de MikeG IN EM69
Jan 14 05:34	Tr KTVE 27/10 El Dorado AR 335 mi de Ed W-KY EM56
Jan 13 20:59	Tr KSPR 19/33 Springfield MO 250 mi de Ed W-KY EM56
Jan 13 20:34	Tr 107.7 WHHM Henderson TN "Star 107-7" de Ed W-KY EM56
Jan 13 20:11	Tr 96.3 KHLS Blytheville AR. "Thunder Country 96-3" de Ed W-KY EM56
Jan 13 18:18	Tr 66.31 WHBF pilot sig. Even in the dead of Winter it's still a pest from 340 mi out. de Ed W-KY EM56
Jan 11 17:35	F2 26110 Khz FM MOde KOVR - TV Studio Link Sacramento, CALIFORNIA Local Ads Network Promos and Variety Show de Rob-VA3SW ON EN92
Jan 11 16:58	Es ch 2 is speaking SS.... de Ed W-KY EM56
Jan 11 13:19	Ms 88.5 KEOM Mesquite, TX RDS 1108 mi de Jeff ON EN93fo
Jan 10 23:15	Es muf now up to 107.1 - had to move the 8mhz recording windows up the fm dial de Fred SC FM03af
Jan 10 22:36	Es still into FM from Mexico - at bottom of dial - fading in/out de Fred SC FM03af
Jan 10 21:48	Es warning! suddenly into FM from Mexico - 89.1-XHPMO RDS - SDR Console is recording lower end of band de Fred SC FM03af
Jan 10 16:28	Es lurking on ch 2z - also DTV Pilot ch 2 & 6m beacon from Bowdin Maine noted de Fred SC FM03af
Jan 10 01:07	Es ch 2z weak video with a couple of carriers fading in/out from south for last half hour - no IDs de Fred SC FM03af

Jan 7 20:32 Tr 98.9 WSIP Paintsville, KY "Country 98-9 WSIP" .Not really Tr Wx here, 6 F and in a blizzard ! 407 mi de Jeff ON EN93fo

Jan 7 17:26 Ms 99.1 WQIK Jacksonville, FL C&W / RDS bogus KFZE 919 mi de Jeff ON EN93fo

Jan 6 00:41 skip on east coast de Saul ON FN04

Jan 5 15:53 Tr W252AS 98.3 New Haven, CT 17watts //WMNR with classical music. Strange. Relog. de Mike CT FN31

Jan 4 21:17 Ms 93.3 KJKE Newcastle, OK "Jake FM" 1034 mi de Jeff ON EN93fo

Jan 4 19:12 Ms 98.9 WKIM TN was 0446 and again at 0714, plus one unID all there was in 4.5 hours of recording on that channel overnight de Saul ON FN04

Jan 4 15:42 Ms 97.7 WTLQ Punta Rassa, FL several pings last hr Spanish / RDS 1178 mi de Jeff ON EN93fo

Jan 4 15:38 Ms 98.9 WBZE Tallahassee, FL "Star 98.9" 917 mi de Jeff ON EN93fo

Jan 4 08:49 Ms 89.1 WLBF Montgomery, AL RDS 813 mi de Jeff ON EN93fo

Jan 4 07:40 Ms 93.3 WWWZ Summerville, SC hip-hop / RDS 744 mi de Jeff ON EN93fo

Jan 4 07:37 Pings getting more frequent. Quadrantids has a narrow peak de Jeff ON EN93fo

Jan 4 07:35 Ms 93.3 unid w/ bogus RDS KLMI to south de Jeff ON EN93fo

Jan 4 03:07 Ms 98.9 SC WWIK McClellanville with Crewschevrolet.com ad, 1818 Eastern, otherwise Ms another dud. de saul ON FN04

Jan 4 02:56 Ms 93.3 WJBT Callahan, FL RDS bogus "KEUB" 900 m de Jeff ON EN93fo

Jan 3 21:16 Ms 91.3 WMPN Jackson, MS RDS 923 mi de Jeff ON EN93fo

Jan 3 21:10 Getting quite a Few Ms Pings here now....Hopefully I'll get something I can ID!! de Rob-VA3SW ON EN92

Jan 3 03:03 Es suddinly breaking out - ch 2-5 Mexico likely, also ch 2 DTV Pilot noted - 6m beacon from KS noted. de Fred SC FM03af

Jan 2 17:54 Ms 90.1 WXVS Waycross, GA again with classical music / RDS 756 mi de Jeff ON EN93fo

Jan 2 15:19 Tr 89.5 WAHS Auburn Hills, MI alternative rock //WBFH-88.1, "The Biff" 100 watts 109 mi de Jeff ON EN93fo

Jan 2 06:22 Tr 95.3 WZLR Xenia, OH "Eagle 95.3 & 101.1" 301 mi de Jeff ON EN93fo

Jan 2 05:27 Ms 90.1 WXVS Waycross, GA classical music / RDS 756 mi de Jeff ON EN93fo

Jan 1 22:48 Es ch2z & ch4+ unidS from south - weak video - likely Dom Rep or Cuba de Fred SC FM03af

FM Pilotuner



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8 1/2" wide,
3 1/2" deep

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Northern FM DX



Keith McGinnis
18 Newbridge St., 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.

EDITOR'S NOTE PLEASE SUBMIT ALL REPORTS IN THE FORMAT SHOWN BELOW.

Time(tab)Calls(tab)Freq(tab)City(tab)State(tab)details

Formats can either be plain text, Word or Excel as long as format is adhered to. Any submissions in other formats may not be used at editor's discretion.

All Submissions must be in to me by the 10th of each month.

Jeff Falconer, VA3NN – Clinton ON EN93fo
Sangean HDT-1X, Sony XDR-F1HD, APS-13 at 22 , 10db preamp
New=* New calls={XXXX} t=Tentative Time=ELT Distances=Miles

July 18 Es -MUF 103.1

1847	WSOR	90.9	Naples	FL	Preacher, RDS PS: WSOR 1191
1851	WQCS	88.9	Fort Pierce	FL	TLK, HD 3 CH 1118
1853	WSCF	91.9	Vero Beach	FL	Underwriters list, RDS PI: WSCF 1103
1854	WCMQ	92.3	Hialeah	FL	Spanish ads, RDS PS: Clasica 92 / PI: WCMQ 1132
1856	WZZR	94.3	Riviera Beach	FL	TLK, RDS PS: WZZR / PI: bogus KDNJ 1165
1857	WMGE	94.9	Miami Beach	FL	Spanish, RDS PI: bogus KBWY, HD 2 CH 1218
1858	WPOW	96.5	Miami	FL	Ads, HD 3 CH 1219
1859	WFLC	97.3	Miami	FL	Ads, RDS PS: COAST / PI: WFLC 1219
1901	WAYF	88.1	West Palm Beach	FL	Legal ID 1176
1909	WRMB	89.3	Boynton Beach	FL	Preacher, RDS PS: WRMB.org 1181
1910	WFIT	89.5	Melbourne	FL	Blues, RDS PS: WFIT 1073
1911	WKCP	89.7	Miami	FL	CLA music, RDS PI: WKCP: RT: Classical South Florida 1247
1920	WLAZ	89.1	Kissimmee	FL	Spanish, RDS RT: PARA PALABRA 89.1 / PI: bogus KAVS 1065
1925	WGCU	90.1	Fort Myers	FL	HD 1158

1928	WJLH	90.3	Flagler Beach	FL	Preacher, "The Cornerstone, WJLH" 982
1930	WEJF	90.3	Palm Bay	FL	Legal ID 1074
1932	WLRN	91.3	Miami	FL	HD 2 CH 1218
1933	WRLX	92.1	West Palm Beach	FL	Spanish ads 1162
1934	WFEZ	93.1	Miami	FL	HD 2 CH 1219
1936	WKEZ	96.9	Tavernier	FL	Oldies, RDS PI: bogus WGMX 1282
1939	WGNK	88.3	Pensuco	FL	Spanish, RDS PS: LA NUEVA / PI: bogus WTNZ 1224
1943	WMIA	93.9	Miami Beach	FL	HD 2 CH 1219
1944	WARO	94.5	Naples	FL	Ads, RDS PS: ARROW / PI: WARO, over local 1191
1945	WGYL	93.7	Vero Beach	FL	Ads, RDS PI: WGYL 1106
1946	WRMF	97.9	Palm Beach	FL	RDS PS: WRMF, on Sony 1177
1952	WRTO	98.3	Goulds	FL	Spanish, RDS PI: WRTO 1247
1953	WEPR	90.1	Greenville	SC	RDS PS: WEPR / PI: bogus WCX, HD 2 CH 600
1957	{WIRK}	103.1	Indiantown	FL	HD, was WPBC, on Sony 1146
2006	WDNA	88.9	Miami	FL	RDS PS: WDNA-FM 1247
2017	WUSF	89.7	Tampa	FL	HD 1088
2026	WSMR	89.1	Sarasota	FL	CLA music, RDS PS: WSMR89.1 / PI: bogus WVO 1139

July 23 Es -MUF 89.7

2012	KMLV	88.1	Ralston	NE	REL:AC, RDS PS: K-LOVE / PI: bogus WAD 756
2050	KMUW	89.1	Wichita	KS	RDS PI: bogus KMTV 929
2052	KJTH	89.7	Ponca City	OK	REL: AC, RDS PI: KJTH 975

July 24 Ms

1510	KNTU	88.1	McKinney	TX	Jazz, RDS PS: KNTU-FM 1102
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July 25 Ms

1140	KJKE	93.3	Newcastle	OK	"...Jake FM..." 1034
1936	KLHV	88.5	Cotton Valley	LA	RDS PS: K-LOVE / PI: KLHV 998

July 25 Super Tr -very strange Tr, more like Tr scatter than ducting!

1159	WAKW	93.3	Cincinnati	OH	Legal ID 342
1200	WSYE	93.1	Houston	MS	Legal ID. in for over an hour, previous Es/Ms, Tr State 16 787
1233	WJXA	92.9	Nashville	TN	Ads, :Mix 92.9, previous Ms 592

July 26 Tr --strange Tr continues, more like Tr scatter than ducting!

0913	WMUB	88.5	Oxford	OH	Calls, very strong	327
0916	WNNF	94.1	Cincinnati	OH	C&W, "Nash FM"	346
0918	WAKW	93.3	Cincinnati	OH	REL: AC, "Star 93-3"	342
1012	WMFT	88.9	Tuscaloosa	AL	REL: AC, "Moody Radio South", previous Es, Tr State 17	775
1047	WVFJ	93.3	Manchester	GA	Ads. "The Joy FM", previous Es/Ms, Tr State 18	747
1200	WEKU	88.9	Richmond	KY	Legal ID	422
1212	WSGS	101.1	Hazard	KY	C&W. calls, mono	451
2351	WPWX	92.3	Hammond	IN	Hip-hop, Power 92.3"	334

July 26 Es -MUF 88.7 briefly

1046	KUHF	88.7	Houston	TX	HD 3 CH	1237
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July 26 Ms

2001	KDRB	100.3	Des Moines	IA	"...100.3 The Bus..."	626
2107	KJTH	89.7	Ponca City	OK	"...The House FM..."	975
2334	KBRY	92.3	Sargent	NE	"...Bear Country 92.3...", previous Es	922
2349	KSOU	93.9	Sioux Center	IA	RDS PS: KSOU	743

Jul 27 Tr

0754	WVPE	88.1	Elkhart	IN	TLK, HD	274
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July 29 Es -MUF 100.3

1810	WUWF	88.1	Pensacola	FL	TLK, HD 3 CH	959
1811	WPAS	89.1	Pascagoula	MS	Preacher, RDS PI: WPAS	977
1812	WMBV	91.9	Dixons Mills	AL	Preacher, RDS PS: WMBV	861
1821	KAMY*	90.1	Lubbock	TX	Preacher, "Family Life Radio"	1298
1829	KENM	88.9	Tucumcari	NM	Legal ID, RDS PI: bogus KMTM	1317
1830	KLDN	88.9	Lufkin	TX	"Red River Radio"	1109
1848	WJSU	88.5	Jackson	MS	Local news, RDS PI: WJSU	911
1851	WMAU	88.9	Bude	MS	RDS PS: MPB 88.9 / PI: "WMPN"	983
1850	KTTZ	89.1	Lubbock	TX	TLK, HD	1295
1853	KVRK	89.7	Sanger	TX	Rock, RDS PS: Power FM / PI: KVRK	1082
1856	KMUW	89.1	Wichita	KS	RDS PI: bogus KMTV	929
1857	KNCT	91.3	Killeen	TX	EZL music, RDS PS: KNCT	1238
1859	KBAH*	90.5	Plainview	TX	AFR REL, legal ID for Plainview-Lubbock, over local	1266
1906	KXTQ	93.7	Lubbock	TX	Spanish, RDS PI: KXTQ	1298

1907	KOLI	94.9	Elektra	TX	C&W, RDS PS: OUTLAW / PI: KOLI 1144
1911	KPLX	99.5	Fort Worth	TX	C&W, RDS PS: Wolf / PI: KPLX 1131
1934	KDCD	92.9	San Angelo	TX	C&W, "Lone Star 92-9", RDS PS: LONESTAR / PI: KDCD 133
1936	KAIQ	95.5	Wolfforth	TX	Spanish ads 1287
1937	KRRQ	95.5	Lafayette	LA	R&B, RDS PS: KRRQ 1085
1942	KRVS	88.7	Lafayette	LA	HD 1093
1956	KJMA	89.7	Floresville	TX	RDS PS: KJMA 1370
1958	KEDC	88.5	Hearne	TX	Catholic REL, taking phone calls 1208
2000	KVED*	88.5	Vernon	TX	REL, "Kingdom Keys Radio", legal ID 1159
2002	KUHF	88.7	Houston	TX	HD 3 CH 1237

July 29 Tr

2041	WONU	89.7	Kankakee	IL	REL: AC, "Shine FM" 365
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July 30 Es -MUF 101.9

2218	KTCL	93.3	Wheat Ridge	CO	Rock, RDS PI: bogus KAXV, HD 2 CH 1230
2219	KOLT	92.9	Warren AFB	WY	Weather report, RDS PI: bogus KWI, "The Boss 92.9" 1220
2220	KMAX	94.3	Wellington	CO	Rock, RDS PI: bogus KKQZ 1220
2221	KRKS	94.7	Lafayette	CO	Preacher, RDS PS: KRKS / RT: Denver's Christian Station 1248
2223	KBBN	95.3	Broken Bow	NE	Rock, "The Thunderbird", previous Ms 944
2224	KXPX	96.5	Evergreen	CO	Spanish ads 1264
2225	KXBG	97.9	Cheyenne	WY	C&W, RDS PI: bogus KEWQ 1210
2226	KUAD	99.1	Windsor	CO	C&W, RDS PI: KUAD 1209
2227	Unid	100.7	?	??	RDS PI: bogus WCST, beamed west
2228	KIGN	101.9	Burns	WY	Classic rock, "King FM", RDS PI: KIGN 1192
2250	KVOD	88.1	Lakewood	CO	CLA music, RDS PS: KVOD 1251

July 31 Tr

1948	WVAQ	101.9	Morgantown	WV	Contest promo 288
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August 01 Ms

2200	KRNW*	88.9	Chillicothe	MO	Part of legal ID with mention of sister station KXCV-90.5 675
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August 02 Ms

0941	KIOA	93.3	Des Moines	IA	RDS PI: KIOA / PTY: Oldies 622
1235	WONU	89.5	Kankakee	IL	REL: AC, RDS PI: WONU, previous Tr 365

August 02 Tr

1007 CKXS* 99.1 Wallacburg ON Loud with Top 40, ads, one of my most wanted, not heard since 78

August 03 Ms

0016 KLHV 88.5 Cotton Valley LA RDS PS: K-LOVE / PI: KLHV 998
0104 KAGL 93.3 El Dorado AR RDS PI: bogus WED 932

August 03 Es -MUF 102.1

0919 KUHF 88.7 Houston TX HD 3 CH 1237
0920 KSBJ 89.3 Humble TX HD 2 CH 1187
0921 KUAP 89.7 Pine Bluff AR Jazz, RDS PI: KUAP 857
0922 KPVU 91.3 Prairie View TX Jazz, RDS PS: KPVU 1226
0923 KYBI 100.1 Lufkin TX C&W, RDS PS: Y-100 / PI: bogus WVQ 1110
0926 KHTE 96.5 England AR Ads, RDS PS: KHTE, mono 849
0927 KQHN 97.3 Waskom TX RDS PI: KQHN 1014
0929 KTUX 98.9 Carthage TX Rock, RDS RT: artist/song / PI: bogus WGSS 1029
0930 KFLO 89.1 Blanchard LA HD 2 CH 1032
0931 KLRE 90.5 Little Rock AR HD, over local 844
0933 KPFT 90.1 Houston TX Calls 1220
0934 KMFA 89.5 Austin TX CLA music, RDS PS: KMFA89.5 1280

August 04 Ms

0123 KJTH 89.7 Ponca City OK REL: AC, RDS PI: KJTH 975
1844 CKMW 88.9 Winkler MB RDS PS: Country 88 / PI: bogus WSQ 875

August 05 Ms

1848 WBOJ 88.5 Lumpkin GA Preacher, RDS PS: The Truth / PI: WBOJ 823

August 07 Ms

1532 KJNW 88.5 Kansas City KS REL: AC, RDS PI: KJNW 741

August 08 Ms

1539 KEOM 88.5 Mesquite TX Oldies // stream 1108

August 08 Tr

1548 CFMO* 102.9 Collingwood ON New station testing with CLA music,
legal ID 85

August 09 Tr

0130 {WCXG} 89.9 Grand Rapids MI REL: AC //WCSG-91.3, ex WAYG 209
0938 WVPE 88.1 Elkhart IN Calls, into "Car Talk" 274
0953 WNDV 92.8 South Bend IN Ads, "U-93" 275
2103 WZEE 104.1 Madison WI Rock, "Z-104" 402
2258 WONU 89.7 Kankakee IL REL: AC, "Shine FM", legal ID at TOH 365
2303 WJCH 91.9 Joliet IL Legal ID, REL:AC 376
2308 WPWX 92.3 Hammond IN Hip-hop, RDS PS: POWER 92 / PI"
WPWX 334

August 10 Tr

0839 WHDI 91.9 Sister Bay WI TLK, WPR Ideas Network 297
0846 WQEZ 95.5 Glen Arbor MI Soft rock, "Easy 95-5", rare 236
0944 WIMK 93.3 Iron Mountain MI Ads, "93 Rock" 354
0959 WNLI 88.5 Sturgeon Falls WI Legal ID 303
1010 WHND 89.7 Sister Bay WI TLK, RDS PS: 89.7WHND 297
1056 WZOR 94.7 Mishicot WI Rock, "Razor 94-7" 315
1110 WMYX 99.1 Milwaukee WI Ads, RDS PS: The Mix / PI: WMYX 332
1159 WHRM 90.9 Wausau WI Legal ID 414
1326 WCOW 97.1 Sparta WI C&W, "Cow 97" 466

August 10 Ms Perseids

1202 KTBG 90.9 Warrensburg MO Legal ID, "...KTBG, Warrensburg - Kansas
City, The Bridge"..."715

August 11 Tr

1559 WVPW 88.9 Buckhannon WV Legal ID 320

August 11 Ms Perseids

1600 WMAU 88.9 Bude MS TLK, RDS PI: "WMPN" 983

August 12 Ms Perseids

1548 CKSB 88.1 Winnipeg MB CBC French 867

August 13 Ms Perseids

1611 WVFJ 93.3 Manchester GA RDS PI: WVFJ 747

August 13 Tr

1614 WAKW 93.3 Cincinnati OH Talk about Cincinnati Zoo 342

August 15 Es MUF- 94.1

1939 CKSB1* 88.9 Regina SK French, "Espace Musique", RDS RT: Espace
Mu / PI: bogus WJH 1177
1940 CHMX 92.9 Regina SK Ads, "My FM" 1179
1950 KMHA 91.3 Four Bears ND TLK, RDS PS: KMHA-FM / RT: VOICE OF THE
PEOPLE 1061
1955 KPPW 88.7 Williston ND HD: PPB 1118
1957 CKMW 88.9 Winkler MB C&W, RDS PS: Country 88 / PI:
bogus WSQ 875
2002 {CIMG} 94.1 Swift Current SK Ads, RDS PS: Eagle941 / PI: bogus WPU, was
CJGL 1321

August 16 Ms Perseids

1224 KDRB 100.3 Des Moines IA RDS PI: KDRB 626
1228 Unid 100.3 ? ?? C&W, RDS PI: bogus WKH, beamed west,
perhaps CJVR1?
1453 KZEN 100.3 Central City NE C&W, RDS PI: KZEN, previous Es 834
1615 CKMW 88.9 Winkler MB C&W, RDS PS: Country 88 / PI: bogus WSQ,
again at 1037 875

August 16 Tr

1300 WNCY 100.3 Neenah-Menasha WI Legal ID, "Y-100" 335

August 17 Ms

0219 WKBH* 100.1 West Salem WI Ad with 2 mentions of Lacrosse (have same
ad on their website) 484
1336 KSYZ* 107.7 Grand Island NE Several bursts of classic rock //stream 894
1844 CKMW 88.9 Winkler MB RDS PI: bogus WSQ 875

August 17 Tr

0241	WRHN	100.1	Rhineland	WI	"Sam FM" 411
1145	WIXX	101.1	Green Bay	WI	AC, RDS PI: WIXX 326
1146	WHID	88.1	Green Bay	WI	TLK, WPR, mono 325
1313	WPNE	89.3	Green Bay	WI	CLA music, RDS PI: WPNE 326
1314	WHRM	90.9	Wausau	WI	CLA music //WPNE-89.3 414
1318	WZOR	94.7	Mishicot	WI	Heavy metal, "Razor 94-7" 315
1321	WNCY	100.3	Neenah-Menasha	WI	Promo for Brown County Fair, "Y-100" 335

August 18 Ms

1548	KEOM	88.5	Mesquite	TX	Oldies, jingle ID 1108
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August 19 Ms

1555	CKMW	88.9	Winkler	MB	C&W, RDS PS: Country 88 / PI: bogus WSQ 875
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August 25 Ms

1546	KLHV	88.5	Cotton Valley	LA	RDS PS: K-LOVE / PI: KLHV 998
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August 25 Tr

2055	WOLF	105.1	Deruyter	NY	C&W, "The Wolf", legal ID 293
2057	WFRG	104.3	Utica	NY	C&W, "The Big Frog" 311
2257	WIXX	101.1	Green Bay	WI	RDS PI: WIXX 326

August 28 Ms

1543	KETR	88.9	Commerce	TX	RDS PI: KETR 1056
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August 28 Tr -My biggest pest CFPL-95.9 noted completely off air for first time!

1952	WAKZ	95.9	Sharpsville	PA	Calls during break in HSFB. CJWR, Windsor and CJKX, Ajax were also present 173
1958	WLJW*	95.9	Fife Lake	MI	Preacher, jingle ID, then legal ID at TOH 194
2005	WNPQ*	95.9	New Philadelphia	OH	Legal ID for New Philadelphia - Canton, CFPL back on shortly after 208

September 01 Ms

1400	KJIA	88.9	Spirit Lake	IA	Parts of legal ID mentioning translators K270BQ and K300CF 714
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September 02 Ms

2030 KALA 88.5 Davenport IA "...degrees in Davenport, and in Moline..."
486

September 06 Tr

1426 WRHN 100.1 Rhinelander WI Northern WI weather 411

September 12 Au?

2324 WOUB 91.3 Athens OH Calls given several times during Au
conditions w/ antenna due north 298

September 15 Ms

1015 KMLV 88.1 Ralston NE REL:AC, RDS PS: K-LOVE / PI:
bogus WAD 756
2356 CKMW 88.9 Winkler MB C&W, RDS PI: bogus WSQ 875

September 25 Tr

2341 WBCJ 88.1 Spencerville OH REL: AC //WBCL-90.3, rare 248
2345 WGDE 91.9 Defiance OH CLA music //WGTE-91.3, RDS PS: WGDE / PI:
WGTE, rare 216

September 26 Tr

0008 WBCL 90.3 Fort Wayne IN Loud with legal ID, rare 255
0700 WHND 89.7 Sister Bay WI Legal ID 297

September 28 Tr

2126 WUWM 89.7 Milwaukee WI TLK, RDS PS: WUWM-FM 322
2131 WHQG 102.9 Milwaukee WI Rock, "The Hog" 327

October 01 Tr

0000 WHID 88.1 Green Bay WI Legal ID, mono 325

October 02 Ms

1949 WQCS 88.9 Fort Pierce FL CLA music, RDS PS: WQCS 1118

October 03 Ms

1227 WLTR 91.3 Columbia SC RDS PS: WLTR 656
1600 KFLO 89.1 Blanchard LA "...You're listening to 'Miracle 89.1 FM'...",
previous Es 1032

October 04 Ms

1111 KUAR 89.1 Little Rock AR RDS PI: KUAR 844

October 05 Ms

1147 WPAS 89.1 Pascagoula MS Preacher, RDS PI: WPAS, again at 1225 977

October 07 Ms

1530 WLBF 89.1 Montgomery AL Preacher, RDS PI: WLBF 813

October 12 Ms

1157 KOIA 88.1 Storm Lake IA RDS PS: KOIA / PI: bogus KWI,
previous Es 682
1225 KDHX 88.1 Saint Louis MO RDS PI: KDHX 586
1227 KMLV 88.1 Ralston NE REL:AC, RDS PS: K-LOVE / PI:
bogus WAD 756

October 17 Ms

1651 WBOJ 88.5 Lumpkin GA RDS PI: WBOJ 823

October 18 Ms

1054 WOCL 105.9 DeLand FL Several bursts, rock //stream 1013

October 26 Ms

1310 KDHX 88.1 Saint Louis MO Fiddle music, RDS PI: KDHX 586
1320 WRJA 88.1 SumteR SC RDS PS: WRJA 675

October 28 Ms

1549 WRAS 88.5 Atlanta GA RDS PI: WRAS 701

November 01 Ms

1257 WKNO 91.1 Memphis TN RDS PI: WKNO / PTY: Public 732
1334 KKBO 105.9 Flasher ND C&W, RDS PI: KKBO 961

November 01 Tr

1546 {WSJP} 100.1 Port Wahington WI Catholic REL, "Relevant Radio",
ex WPJP 324

November 08 Ms

1104 KJWR 90.1 Windom MN RDS PS : KJWR, several bursts 683

November 09 Ms

1321 KJSR 103.3 Tulsa OK RDS PI: KJSR, previous Es 914

November 15 Ms Leonids

0904 KMLV 88.1 Ralston NE REL:AC, RDS PI: bogus WAD 756
0910 KWOU 88.1 Woodward OK RDS PS: KGOU 1066
0925 KNTU 88.1 McKinney TX "...88.1 The One..." 1102

November 22 Ms

1130 WUWS* 90.9 Ashland WI TLK, RDS PI: WUWS 499
1247 KHMV 93.1 Pratt KS "...Kelly Clarkson on 'My FM'..." 961

November 22 Tr

1228 WIMK 93.3 Iron Mountain MI "93 Rock" 354

November 23 Tr

0239 WHND 89.7 Sister Bay WI CLA music, RDS PS: 89.7WHND 297

November 23 Ms

1226 WBJI* 98.3 Black Duck MN "...'Real Country', your home for the stars
and legends..." 697

November 28 Tr

1945 WQRP 89.5 Dayton OH Spanish REL, "Radio Nueva Vida", rare 299

November 30 Ms

1847 KXGT 98.3 Carrington ND RDS PI: bogus WFJ 883

December 06 Ms

0242 KXGT 98.3 Carrington ND RDS PI: bogus WFJ 883

December 12 Geminids

2052 WPAS 89.1 Pascagoula MS Preacher, RDS PI: WPAS 977

December 13 Tr

0200 WHRM 90.9 Wausau WI Weak, legal ID 414
0230 WSJP 100.1 Port Wahington WI Catholic REL, "Relevant Radio" 324
0205 WHID 88.1 Green Bay WI TLK, WPR, mono 325
1111 WPNE 89.3 Green Bay WI CLA music, RDS PI: WPNE 326
1117 WIMK 93.3 Iron Mountain MI Loud, "93 Rock" 354
1124 WNCY 100.3 Neenah-Menasha WI Ads, weather, "Y-100" 335
1141 WAPL 105.7 Appleton WI Calls 325
1235 WDOR 93.9 Sturgeon Bay WI ID "93.9 FM, 910 AM, WDOR" 303

December 14 Geminids

1330 CKSB 88.1 Winnipeg MB CBC French 867

December 24 Ms

0735 WBOJ 88.5 Lumpkin GA RDS PI: WBOJ 823

December 27 Ms

0029 WQCS 88.9 Fort Pierce FL CLA music, RDS PS: WQCS 1118
1220 WJSP 88.1 Warm Springs GA TLK, HD 762

2015

January 01 Ms Quadrantids

0206 WMPR 90.1 Jackson MS RDS PI: WMPR 915

January 02 Ms Quadrantids

0026 WXVS 90.1 Waycross GA RDS PI: WXVS 856
1252 WXVS 90.1 Waycross GA CLA music, RDS PS: WXVS 856

How to Get TV DX Out in the Fringes

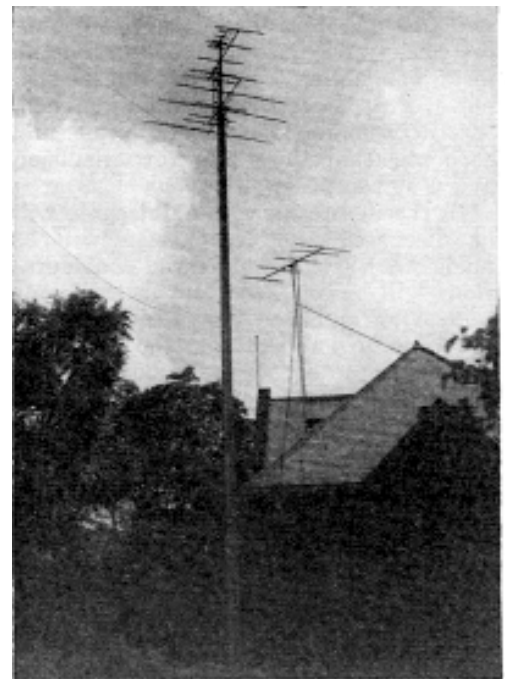
Reprinted from *Radio-Electronics*, January 1949



AROUND Indianapolis, Indiana, set owners are picking up TV programs from Chicago, about 190 airline miles away. Reception is, at times, equal to that from Cincinnati's WLWT, approximately 90 miles distant. Both pictures and sound are being received; although frequently the picture comes in without the audio, while at other times the video is lacking but sound is perfect. Inability to receive both sight and sound simultaneously is usually due to the narrow band width resulting from the use of pre-selectors or boosters in series. Most marginal installations are using two or three boosters in cascade to build up the gain sufficiently to swing the video end of the receiver. Consequently, the band width is often narrowed to the point where either the picture or the sound may be lost. Considerable care in peaking the boosters is necessary to avoid this difficulty, but it cannot be altogether avoided in marginal installations. One very good solution for the trouble is to use a separate receiver for the audio.

How good is reception?

TV set owners in the Indianapolis area are also reporting reception of signals from Milwaukee, St. Louis, Cleveland, and Detroit. There is often a lot of interference between stations on the same channel. Such interference is particularly bad between WLWT at Cincinnati and WBKB at Chicago, both stations being on channel 4. There are times when you get the picture from one transmitter and the audio from the other. At other times both pictures mix together to form a garbled mess; and, as reception conditions vary, the stronger signal is the one that predominates. Frequently we have seen a program suddenly shift from one station to the other with no adjustment of the controls on the TV receiver. Reflections from shifting cloud banks are particularly annoying and are probably responsible for such freak effects. They vary in direction and intensity from day to day and hour to hour. It is virtually impossible to eliminate entirely this type of interference. Rotation of the antenna is probably the best and most effective remedy. Often a stronger signal can be picked up by tuning to a reflection, but it is likely to be very erratic and difficult to hold.



This Workshop Associates array, 90 feet in the air, is the antenna of Elmer Tafinger.

All kinds of freak results can be expected in marginal areas—including some good reception that would almost lead you to believe the transmitter was about two blocks down the street. We have seen good, clear test patterns from WLWT (Cincinnati) when the weather was very hot and there was not a cloud in the sky—airline distance to the transmitter about 90 miles! Usually, however, results are better on a cloudy day with relatively high humidity such as occurs either before or after a thunder shower.

Most marginal installations are made in homes of people who know quite a lot about radio or electronics—amateurs, servicemen, engineers, and so on—but a surprising number of sets are being installed for professional people, such as doctors and lawyers. A few taverns have installed projection TV, even though the nearest transmitter is beyond the normal range of satisfactory reception. Since it has been the policy of set manufacturers in general to discourage marginal TV installations, most of the sets have been privately installed by their owners. Maintenance has been left entirely to the owners, and the manufacturer or distributor assumes no responsibility whatever for the results.

Are owners satisfied with their sets and with the reception they have been getting? The answer, surprisingly, is a very definite "yes." A few owners did not know what to expect, and they have been very much disappointed. They are the ones who were expecting to get pictures like home movies, something that just can't be done yet, at least not in marginal areas. Not all locations will give satisfactory reception, and an owner who installs a TV set in a particularly bad location may never be able to pick up a recognizable test pattern. Would-be viewers must be warned of possible complete failure, or unsuccessful installations will create bad will toward the installer.



Multiple boosting is necessary for reception.

Which is the best set?

The question is often asked: "What type or brand of television receiver should I purchase to get reasonably good reception in areas like this one, far from television broadcast stations?"

Any of the standard receivers now on the market will work in marginal areas if properly installed. Several kit receivers have been as successful as standard makes. There is some difference in stability and performance between various sets; but, generally speaking, no special set is required for a marginal installation. Regardless of the type of set or make selected, it is very important to check it carefully (or to have it checked) to be sure it is properly aligned and in tip-top shape to deliver its maximum performance. Usually, the cheaper sets employing a minimum of tubes will require a larger input signal to drive the video channel successfully. If the location is in a low noise area, the signal can be built up to the level required by any set on the market; but if there is noise and interference, that will also be amplified by the boosters and results will be unsatisfactory.

All marginal installations require the use of from one to three preamplifiers or booster stages. You can buy several good ones on the market, or one can be built. (See RADIO-ELECTRONICS, October, 1948, page 60, and November, 1948, page 48.) It is generally necessary to use two or three stages of pre-amplification. To avoid oscillation due to coupling, many users prefer to employ factory-made boosters in cascade. If trouble is encountered because of oscillation, instability, or failure to secure a tunable peak, it can often be corrected by making changes in the input or output lines. Of course, some boosters may be inherently unstable; in many cases it will be simpler to try another one when tracing down the source of trouble. Usually two different makes work better than two of the same make when connected in series because there is less chance for interaction between the two units.

Get a good antenna

To get any reception in a marginal area, you must bring the maximum signal into the set, so the antenna installation is the most important thing to consider. Several antenna systems now on the market give good results in marginal areas, and most users have preferred to buy a ready-cut antenna system. Decide what station you want to receive and then either get an antenna cut for that particular channel, or get one you can definitely tune to the desired channel. Properly spaced directors and reflectors are a necessity. Remember that straight dipoles have better directional characteristics than the folded types. Usually, a multiple array is the only answer to the problem of getting a signal into the set, and the only type of antenna that will give any usable results. The so-

called "broadband" types that cover all channels are no good for use outside the line of sight of the transmitter. If the set is really far away from the transmitter, there will be trouble from all kinds of interference and stray noise pickup—automobile and airplane ignition systems, cloud reflections, static, random noise, tube noise—so the antenna must be tunable and highly directional to minimize unwanted pickup and at the same time put the maximum signal into the TV receiver.

Get the antenna up as high as possible, preferably on a utility pole that is climbable or on a good pipe or fabricated mast that can be lowered for repairs and adjustments. The antenna must be rotatable, either by hand (turning the pipe column with a wrench) or with a motor. Keep the over-all height under 100 feet to avoid having to install a flasher beacon on top of the mast in compliance with CAA regulations.

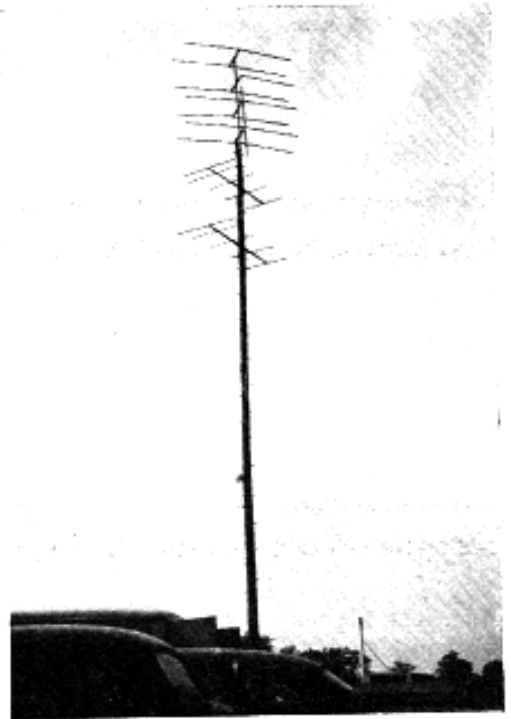
Most marginal antenna installations run from 50 to 95 feet over-all height. It is important to get above trees and surrounding objects, but excessive height means increased length of transmission line, with increased losses. Use a minimum length of co-axial cable or transmission line to make the installation. Use co-ax for noisy locations and twin line for residential or country jobs. If a purchased antenna system is installed, directions for installation and matching to the set will be furnished. It is a good idea to do some experimenting when it comes to matching inputs; there is often a very great mismatch which results in a very poor transfer of signal. A little patient trial-and-error may make a big difference in the input signal. Keep the lead-in away from metal objects. Support it on a minimum of stand-off insulators and avoid sharp bends or turns.

Where to get a mast

For lightning protection, it is advisable either to ground the pipe mast or to run a separate ground wire to the top, as is done to protect utility poles. Follow the National Electric Code. Frequently your local power and light company will sell a pole at a very reasonable price, as they have all the necessary equipment and can do the work in a minimum of time. You can mount your antenna on this pole, which is climbable and requires no guy wires for its support. Several marginal installations we visited had used this service with considerable satisfaction. Over a period of several years, such a pole should be a very good investment.

It takes a lot of work and patience to get a marginal installation to function. Properly. Do not expect consistently good pictures or uniform results. Television is here to stay, and it now appears that good reception may be possible at distances far beyond those at first established by the engineers, as the maximum at which a satisfactory picture could be received.

After becoming thoroughly familiar with a particular setup, the operator can anticipate the times of best reception. Marginal TV is just beginning to open up on a national basis, and there are plenty of problems yet unsolved. Those who are now out on the fringe are having an unusual opportunity to assist in solving those problems by actually trying for reception under the varying atmospheric and climatic conditions encountered from day to day.



The upper array on this 90-foot-high mast is beamed on Cincinnati, lower toward Chicago.

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