



VHF-UHF

The Magazine for TV and FM DXers

DIGEST

February 2019



The Official Publication of the Worldwide TV-FM DX Association

What Is This?



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THE VHF-UHF DIGEST

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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:

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Our real-time (prop logger) bulletin board is located at <http://wtfdadxb.vci.net>. Only WTFDA members can participate.

You can find WTFDA on Facebook. Our group is called [TV and FM Dxing](#). This is a public group. We also have a private group called [WTFDA](#). This group is just for WTFDA Members.



The WTFDA FM Database is administered and updated by your fellow WTFDA members. It is completely free to use. You can find it at <http://db.wtfda.org>.

Searchable Online Directory of North American FM Radio Stations
United States, Canada, Mexico, Central America & The Caribbean



This site is dedicated to the memory of WTFDA member Dr. Bruce Elving, creator and publisher of the FM Atlas

A guide for DXers, Hobbyists and Radio Listeners



The Mailbox

P.O. Box 501 Somersville, CT 06072
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DUES RECEIVED

DATE	NAME	S/P	EXP
12/26/2018	Chris Lucas	NY	6/19
12/27/2018	David Wurl	WI	12/19
12/27/2018	Roosevelt Crawford	KS	1/20
12/27/2018	Barry Bauer	DE	12/19
12/31/2018	Rick Dau	NE	1/21
1/2/2019	Pete Giacopelli	NY	1/21
1/8/2019	Ron Hunsicker	PA	2/20
1/17/2018	Calvin Glover	NC	1/20
1/18/2019	Charles Gauthier	QC	1/20
1/22/2019	Juan Gualda	FL	1/20
1/30/2019	Dave Pomeroy	KS	12/19
1/30/2019	Scott Hood	MA	1/21
1/31/2019	Brian Penney	MA	1/20

This month we welcome Rick Dau and Brian Penney into the WTFDA. Welcome to both of you and I hope you enjoy it here. And a big thank you to all of you for your support of the WTFDA!

Between the frigid arctic air covering the eastern and Midwestern states combined with the FCC shutdown for a month, I'm surprised we have any material for you for this VUD. One prop logger (not ours) hasn't had any posts for the last four days! Maybe things will be looking up now that the polar vortex is moving away and milder temperatures are in the forecast.

FEEDBACK

We got a little bit of feedback on the January issue. Rick Shaftan wrote "This ATSC 3.0 story is fascinating" and Bill Nollman wrote "Great story about the history of printing the VUD Mike, thanks to everyone who has worked on it over the years and also to everyone who makes the WTFDA DB possible! And now that I think of it, thanks for the invite to join you at your house on a snowy night in 1984. If not for that would I still have the hobby and friends I have today?"

Ah yes, I remember that snowy evening in 1984 when we listened to CKBY 105.3 in Ottawa scatter in over and over that evening on an empty channel. And I remember those free Disney on Ice tickets you gave us to take the kids to the Hartford Civic Center for a free show!

Wow! Has the FM band gone down the toilet since then, to the point where you can't DX at home anymore and I only bother to check every so often to see if any new translators have come on.

ACCURATE!!

Jim Thomas sent over an email he received this morning from Radiocubana (ICRT). Someone over there looked at our Cuban FM station list and graded us as to the accuracy of our list. Here is part of that email which I translated from Spanish using Google. It said: ***The representatives of Radiocubana recently reviewed the WTFDA database. The purpose of Radiocubana for the review was to determine the accuracy of the FM radio stations that are in the WTFDA database. We provide a score accuracy of 92.47 percent for the accuracy of FM radio listings for Cuba.***

And, to help increase that accuracy, they supplied updated material to keep us current. Jim gets all his info from Radiocubana and has built up relationships with several government officials in Cuba and other Central American countries in his quest to keep our FM database accurate.

MORE CATS!

We are not done with these just yet. This is Chris Dunne's cat Jack. He's ten years old and sleeps when there's no DX around.



Send us a picture of your pet and we'll use it. We'll use Dave Nieman's pet photo next month.

We will see you next month. Hopefully it will be warmer out by then and conditions will improve. -Mike

Creating an FM DX log using a MySQL Database

Everybody keeps a log of some kind, whether it consists of notes scribbled on a piece of paper or data typed in an Excel spreadsheet. I've been using spreadsheets for more years than I can remember, until now.

I know that there are a few people in the club who have websites. Usually the people who host websites also offer goodies along with their web hosting. Most of the time, unless you have a really cheap webhost (and sometimes even if you do), your host will offer at least one MySQL database along with PHPmyadmin. My cheap webhost offers 50 databases, but up until now, I ignored them. But after using phpMyadmin daily, if not more frequently than that with the FM database, I decided to try to upload my log of 3000+ stations into an SQL database. I did and I'm glad. It's easy and even fun!



The first thing to do is log into cPanel. For this exercise, I'm Joe DXer. As soon as I'm logged in, I find lots and lots of goodies and I have no idea what they are. But after looking around I find MySQL databases and phpMyadmin. If you don't have cPanel, you'll have something similar.

Click on MySQL databases and you'll find something to let you create a database. This is what I have:



Next, think of a name for your database and type it to the right of your username (which in this example, is Joe DXer). Then click Create Database and bingo! Your database is created. You are now done with my SQL databases.

Now it's time for phpMyadmin, and from now on, this is what you'll be using. Click on the icon in cPanel. This is what you'll see. You have to add your log (data) to the database and this is what you use to do it. Notice, on the left side of the graphic, that your username is there along with the name of your database. What you'll have to do now is create a table for your log. This table has to be identical to the table in your spreadsheet. The number of fields and the names of the field must be exact. They recommend you go to your spreadsheet first and create a column called "id" just to the left of your first



column. Doing this gives each entry a unique id number.

Column	Type
id	int(4)
Callsign	varchar(15)
Freq	varchar(10)
City	varchar(25)
State	varchar(5)

Once you've added the "id" column to your spreadsheet, go back to phpMyadmin. There will be a form where you can set up your table. The table on the left is not the exact table, but something like it. Under the column header you add your column titles. Go from left to right on your spreadsheet and add them from top to bottom. Under the Type header, select Varchar for all of your columns (fields) and put "int" for the id column (field). The next field to fill in will tell phpMyadmin how many characters you want to have in each column. This isn't critical. Ten is a good number unless you have some real long Canadian or Mexican callsigns in your log. The figure on the left can give you an idea.

The screenshot shows the phpMyAdmin interface. On the left, a tree view shows the database structure with a table named 'log'. The main area displays the table structure and a list of 12 rows of data. The table structure shows columns: id, Callsign, Freq, City, State, M/D, Year, Time, G, T, E, M, A, XLTR, PI, PTY, Misc_Info. The data view shows 12 rows of log entries with their respective IDs and values for each column.

id	Callsign	Freq	City	State	M/D	Year	Time	G	T	E	M	A	XLTR	PI	PTY	Misc_Info
1	Callsign	Freq	City	State	M/D	Year	Time	G	T	E	M	A	XLTR	PI	PTY	Misc_Info
2	WESU	88.1	Middletown	CT		1974										
3	WMNR	88.1	Monroe	CT		1974										
4	WJIS	88.1	Bradenton	FL		1989				E						
5	WAYF	88.1	W.Palm Beach	FL		1995				E						
6	WUWF	88.1	Pensacola	FL	29-May	2008				E						
7	WJSP	88.1	Warm Springs	GA	9-Jul	2007				E						
8	KDPS	88.1	Des Moines	IA		1977				E						
9	KBBG	88.1	Waterloo	IA		1982				E						
10	WVJC	88.1	Mt. Carmel	IL	25-Jun	2011				E						
11	KJTY	88.1	Topeka	KS		1987				E						
12	WTBS	88.1	Cambridge	MA		1976				T						

Once you've done that, you can upload your spreadsheet .csv file. You'll see an import tab on top of the page. Click it, select .csv file upload, and click GO. If you've set up your table correctly, you'll see your log. X out the page to exit. Some versions of phpMyadmin have an exit button on the left side of the window just under the blue and orange logo.

The next time you want to see your database, log into cPanel, click on phpMyadmin. Click on your database (Joe DXer_myfmlog) and when you do, a drop down menu expands and shows you either NEW or LOG (your database table). Click the table name and your log appears. Select 20,50,100 or 200 entries to be shown (500 is also available but tends to bog down the database, so I avoid it.) Use the SEARCH function to do any type of search you like. Use the EXPORT function to export your log back to a .csv file if you want.

If you have a website, you pay for this, so why not use it. This log is completely portable. All you need is a computer. Log in from anywhere. Make multiple logs for other locations. Searches are a snap. Find all stations logged from Texas in just two or three seconds. Find duplicate files easy. Your "total stations logged" is always visible. Edit and delete files easy. Add files easily. Remember, if MySQL databases and phpMyadmin can handle the WTFDA FM database, they can surely handle your DX log as easily as it handles mine.



MEXICAN BROADCASTING

2018 in Review

Raymie Humbert

2018 was a very busy year in the Mexican broadcasting industry. The year saw action continuing on from what the IFT had done in 2017, namely major radio and TV station auctions.

New Station Awards

The IFT began the year on a hot streak, particularly carrying over from its groundbreaking activities in December 2017 (which were not published when the 2017 look-back went out). This year through November 14, the IFT authorized 71 FM, 4 AM and 7 noncommercial TV stations. Of the 75 radio stations, nearly 40 percent were authorized in the first quarter of the year.

The IFT continued what it had begun at the tail end of last year by clearing a variety of permit forests—groups of pre-2014 applications for noncommercial stations in the same city. Stations were awarded in Culiacán, Tepic, Morelia, Chilpancingo, Poza Rica, Cintalapa Chis. and Monclova in resolution of some of the forests that had piled up from applications between 2000 and 2014. However, more than 200 such applications remain to be resolved, the oldest of them dating to the Zedillo administration. It also awarded some stations in areas with just one pre-LFTR application, such as Uruapan, Linares, and Puerto Vallarta (the latter two helping make 2018 the year of the religious wolf). Additionally, a new three-headed social wolfpack has emerged in the Bajío and west coast, the PSR wolfpack operating as Frecuencias Sociales, Fundación Educacional de Medios, and Radio de Ayuda. Time will tell what its frequencies—11 so far—carry.

The seven television stations included some notables. Social wolves—noncommercial stations under commercial auspices—on TV were awarded to the Fundación Garza Limón in Durango, the mysterious Patronato Pro-Difusión Social in Río Bravo, Simón Valanci Buzali in Tuxtla Gutiérrez, and Laura Amparo Otto Díaz for Medios Radiofónicos Michoacán in Lázaro Cárdenas. (LZC has never had a locally programmed broadcast station.) There were also new stations greenlit for the Colima state government in Manzanillo and a Canal 44 station for Puerto Vallarta. The remaining station will resolve an apparent permit discontinuity for XHUNES in Durango, but the penalty is that the new concession specifies VHF channel 11, not UHF channel 16.

New On Air

2018 saw the sign-ons of IFT-4 auction stations pick up the pace, something that continued right up until days before Christmas. From Ensenada to Playa del Carmen, Acatlán de Osorio to Villa Tututepec, new IFT-4 stations extended commercial radio service to towns that previously did not have their own local stations and others with more crowded radio markets. Arguably the saddest sign-on of 2018 was XEGMSR Villahermosa, which came to air at the end of February and then lost its founder to murder in May.

Second-wave migration—the process by which frequencies were made available in major and border markets for a select number of AM stations to move to FM—also gained a head of steam this year, and more migrants are on air than aren't. In Guadalajara, three separate stations (of the eight to come to air) turned on their transmitters over a six-day span, introducing HD Radio to Mexico's second-largest metro area for the very first

time; two more have since signed on. The migration is complete in Monterrey, Puebla, Toluca, San Luis Río Colorado, and in Mexico City.

It was in the capital that migration was a home run. Radio Educación, after decades of trying, finally began broadcasting an FM signal to the Mexico City metro with a formal startup on November 11. They were preceded on the air by XHINFO-FM, which started the year as an enigma but ended it as arguably the station of the year in Mexico. Its name first revealed here on April 24 ahead of turning on the transmitter in August, Aire Libre caught lightning in a bottle, uniting the last ever new commercial station for one of the world's largest metros, brilliant music minds, and unique programming to create the sort of station that every world-class city deserves.

There was also a steady stampede of noncommercial sign-ons, including some awards from 2018 and many from 2017. I sent databases nearly 50 emails containing the words "New On Air" this year. Some were surprises—nobody thought the Radiovisa/Organiden station for Hermosillo was going to be run by Larsa, an unfortunate end run around the entire permit forest process, or that the hotel operators' station in Akumal would turn out to be Acustik—while others were more predictable, like XHXI-FM Ixtapan de la Sal in the State of Mexico, the first first-wave migrant authorized in the IFT era with a frequency and facility that had been built two years prior. Some stations, like XHPMI Peñamiller Qro. (now on test) or XHBOC and XHURI in Bocoyná-San Juanito and Urique-Creel, Chihuahua, were the first radio services in their communities.

Television also had a year of sign-ons, mostly from the IFT-6 TV station auction, beginning with XHJGMI-TDT "Multimedios Michoacán" (no relation to the one from Monterrey) in January. The real Multimedios entered the capital city and built five of its six new transmitters (with Puebla delayed due to red tape). Quiero Media fulfilled its founder's dream of broadcasting over the air when XHQMGU-TDT signed on in May. The summer saw XHICCH-TDT go on air from Chihuahua Capital, cementing XHIJ owner Intermedia's weight as a force in state media (and their expansion to transmitters in Cuauhtémoc and Delicias will increase that). TV Mar went on the air at the start of December in Puerto Vallarta (XHCPPV-TDT), offering a roadmap for how an independent television station might look in today's Mexican broadcasting, while the year concluded with Tele Saltillo XHTSCO-TDT bringing Grupo Zócalo to television. 2019 promises the remaining stations, including Francisco Aguirre's UHF station for the capital, TV Mar in Baja California Sur, likely networked stations in Durango and in Nayarit, a pair of stations in the state of San Luis Potosí and the twelve Telsusa stations.

Noncommercial activity was highlighted by the sign-on of Canal 44's transmitters for Ciudad Guzmán in January and Lagos de Moreno in September, making the Universidad de Guadalajara the first to make a university state network a reality. However, Chihuahua's multiplexed state network on two Imagen transmitters has been deferred due to budgeting problems in that state, with the larger 11-transmitter common-concession state network pending at the IFT.

Television also had a lot of repacking. In March and April, almost every remaining station got their repack papers, and the rest got them over the first nine months of this year. Repacking has taken place in many areas and should be over fairly quickly in 2019. It'll be a few years, though, before the 600 MHz band is auctioned off.

There were also sign-offs, mainly on AM. At least a dozen of the 83 Combos of '94, in cities such as Aguascalientes, Cancún, Campeche and Torreón, opted not to renew their AM frequencies and handed them in to the IFT.

Acustik

Few stories charted a wilder course during the year than the construction of Mexico's newest media group. Grupo Acustik came out swinging on January 15: Víctor Trujillo in the morning, Javier Solórzano in the afternoon, and a new national TV channel. But the year they've had has been bumpy. Their stars fled within months, with the company in apparent arrears. (Trujillo is now at Aire Libre and Solórzano at Canal Once.) The company changed studio locations in Mexico City in May, was called out by their force of state correspondents for not paying salaries in July, and suffered through problems with their Cancún pirate operations that included losing one station altogether (though they now finally operate a legitimate station, the one in Akumal). Oh yeah, and not a single one of their IFT-4 radio stations is on the air.



Format News

One of the deans of classical radio in Mexico gave up the terrestrial ghost after 18 years. In early March, XHLNC-FM Tijuana went from classical to Larsa social wolf, the first time it had been operated from Mexico since being permitted in 2000. Additionally, one of the two other major US-through-Mexico broadcasters, Broadcast Company of the Americas, is in financial disarray, having had the plug pulled from two Mexican stations with the remaining station likely on the way.



A formerly placid Radiorama cluster in León was cleaved in two, with some stations changing formats for the first time in their 28 years of broadcasting. Multimedios Radio and Audiorama split the formerly Pereda Gómez-aligned six-pack. Multimedios had the

format of the year, La Lupe, which was so successful that MM blew up XHPCTN-FM Compostela-Tepic, which had been Hits FM, for the new format within just three months of signing it on.



Tribuna Comunicación was the big loser when MVS Radio bought into Puebla by acquiring XHJE-FM from Cinco Radio, part of an expansionary year where MVS also took over XHLC-FM Guadalajara and XHJM-FM Monterrey to return FM Globo to prominence. Immediately, they lost Exa FM, and they dropped La Mejor too after their bid to move XEZT to FM fell through for nonpayment and the frequency went to

Grupo ACIR's XEHIT. While XHPBA-FM now has Los 40, XEZT is operating as an adrift-seeming romantic station known as "La 1250 AM".



Grupo Larsa Comunicaciones needed a new grupera format after their partnership with market-leading XHHQ Hermosillo fell through, and in August, they launched "La Más Chingona" on 101.1 XHVSS. The name wasn't as, uh, badass as it might seem, attracting attention for its comparative vulgarity. Larsa didn't care — they proceeded to expand the name to XHESO Ciudad Obregón to replace a half-done flip to an XHHQ-esque brand.

Additionally, despite several promises, the attempt to sell Televisa Radio seems to have met

with no bidders and won't see a resolution this year.

The Fourth Transformation: What Future?

2018 was, of course, a large political year in Mexico, one that saw a historic change in power as Andrés Manuel López Obrador became president. With him comes austerity, even for public broadcasting and for the IFT. With problems already arising such as changes in government procurement policies putting fee payments to IMER station contributors in limbo after March 31, the SPR not getting much-needed money to build 14 new TV transmitters, and the IFT warning it had received a budget below what it said was the minimum to meet its goals, 2019 could be a clarifying year or it could be a larger disaster. Furthermore, necessary cuts in excessive public relations spending could be passed through to broadcasters, hurting the industry.

A Few Other Things

-The launch of the IFT Coverage Viewer in late August, and the return of tech sheets (and resumption of new uploads) around that time, have vastly increased the amount of data available on Mexican broadcasting. The Coverage Viewer was instrumental in helping RECnet add Mexico to fccdata.org. For the first time, transmitter data is available for all Mexican broadcast stations.

-MVS finally got onto in-the-clear broadcasting in the capital by hitching a ride on XHTDMX 6.4, the latest development in a saga whose roots date to 2001.

-The Mexico Beat was first to report a station award—to the grantee. In mid-March, a tweet rounding up new callsigns for social stations, including XHMPJ-FM 91.5 in Los Cabos, prompted Luis Roberto Márquez Pizano to slide in my DMs. His lawyers had yet to tell him! Márquez Pizano would also nab another social station in Baja California Sur, XHBCPZ-FM 95.1 in La Paz. Neither has hit the air.

-The Universidad Autónoma de Durango (Fomento Educativo y Cultural Francisco de Ibarra) came out the big winner of the IFT's permit forest mania, earning frequencies for Lobos FM stations at Hermosillo (103.5 XHHMO), Los Mochis (97.3 XHHIS), Culiacán (93.7 XHCUAD) and Zacatecas (95.5 XHUAD). The latter is the first university radio station in the state, leaving just Quintana Roo (and legally, Oaxaca) without a university radio station. (Hermosillo and Zacatecas are now on the air, though I can't find much on the Sinaloa stations.) Lobos FM (and TV in Durango), which already broadcast to Durango, Gómez Palacio/Torreón and Mazatlán, is now the largest private university broadcaster in the country and the only multi-state university radio network in the country.



Sinclair Releases New Chips to Power ATSC 3.0 Next Gen TV

By [Luke Bouma](#) on January 8, 2019

Cord Cutters News

www.cordcuttersnews.com



Today at CES, Sinclair [announced](#) a new chip to power ATSC 3.0 TV. This new chip will allow TVs and other devices like phones to receive the new 3.0 OTA TV standard.

“These mobile 3.0 chips validate the ‘sea change’ in over-the-air distribution of, not only television, but all digital data,” said Mark Aitken, president of ONE Media 3.0, in a statement. ‘Broadcasters are doing their part by deploying the Next-Gen transmission facilities, and now there will be

devices enabled to receive that data – personalized and in mobile form. This chip is the key to that disruptive future in a 5G world.”

What is ATSC 3.0?

ATSC 3.0 is a new standard that will bring a long list of new features to over-the-air TV. Two main features that will really excite cord cutters are 4K HDR picture with better sound and better over-the-air TV coverage.

There are other great features such as detailed custom weather alerts and internet active news stories.

Will you need a new TV?

The good news is NO, but you may need a new box. The FCC requires TV stations that move to 3.0 OTA to offer the current OTA standard for five years *after* the move. That means if a station moves to 3.0 OTA TV next year, the day they turn on 3.0 OTA the clock starts for five years to still offer the current standard.

This new chip is meant to be built into new devices but other companies have announced plans to roll out converter boxes to add ATSC 3.0 to your current TV.

If you don't want to buy a new TV, you won't have to in order to enjoy 3.0 OTA TV. Several companies say they will have dongles or set-top boxes for sale soon that will let you connect your antenna to the box and the box to your HDMI port on your TV.

With that said we are looking at six to seven years before anyone is forced to upgrade their TVs or devices.

TV antennas are making a comeback in the age of digital streaming

By [Stephen Battaglio](#), Los Angeles Times
Dec 28, 2018 | 5:00 AM



The "rabbit ears" antennae may be in the past, but over-the-air television is making a comeback.

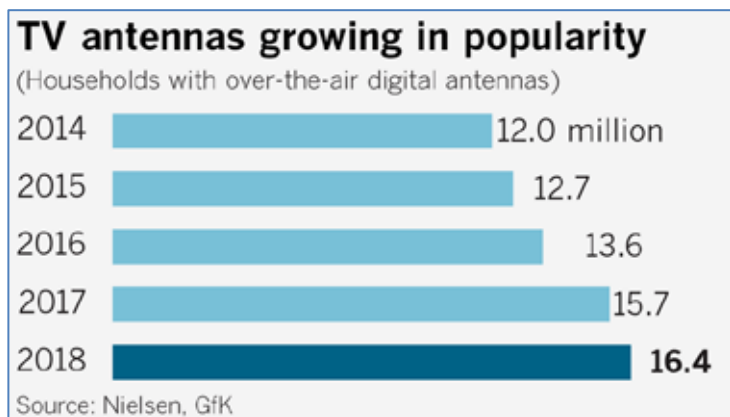
Karl Rudnick, a retired 69-year-old mathematician who lives in Solana Beach, Calif., recently bought a second home outside Minneapolis to be close to family members. He did not have to draw on his knowledge of advanced calculus to reject the idea of paying for two cable TV subscriptions.

"I talked to the cable companies and asked if there was a way to have one account," Rudnick said. "There wasn't, and all of a sudden I was looking at spending \$300 a month just to have internet and TV."

After doing some research, Rudnick decided on a throwback solution to bring down his monthly outlay without giving up the TV programming he liked. He purchased two TV antennas for about \$80 each. He installed one in the attic of each house, giving him access to ABC, CBS, NBC, Fox, PBS and dozens of other broadcast channels for free. At his West Coast home, he was able to connect the antenna to the cable company's coaxial wires.

The TV antenna is a piece of 20th century technology that evokes memories of rabbit ears placed atop the mahogany cabinet of the old Zenith in your grandparents' living room. But Rudnick is among a growing number of consumers who are turning to over-the-air digital antennas — a one-time investment of as little as \$20 — as a way to slash their monthly video subscription costs.

Research firms and electronics manufacturers say cord-cutting consumers such as Rudnick have driven up TV antenna sales and usage in recent years. These "value-conscious streamers," as they are known in the industry, are willing to cobble together a mosaic of video sources to replace the traditional pay TV bundle, which now costs an average of \$107 a month, according to a recent study by the Leichtman Research Group.



This year, 8.1 million over-the-air TV antennas will be delivered to retailers in the U.S., up 2% from last year and 8% over 2016, according to the Consumer Technology Assn.

Nielsen estimates that 13.8% of U.S. homes depend on antennas to get their TV, up from 10.3% in 2014. Research firm GfK North America puts the number of over-the-air TV homes at 16.4 million.

The rapid acceleration of cord-cutting has put heavy pressure on the cable industry and media companies that own pay TV channels that depend on the steady revenue stream that subscribers provide. The number of consumers who've canceled traditional pay TV service is expected to climb 33% to nearly 25 million this year, according to estimates from research firm eMarketer.

Though worrisome for Hollywood, the trend has been a boon to antenna manufacturers like Channel Master. Although it does not disclose sale figures, the Chandler, Ariz.-based manufacturer has recently doubled the size of its facilities to meet demand for its products, said Joe Bingochea, the company's president.

"The market is primed right now," he said. "We're trying to capitalize on it as much as we can."

Bingochea said the average age of his customers is about 50. Many of them grew up in homes with antennas from Channel Master, one of the oldest active brand names in the consumer electronics business.

Joseph Resnick, a former merchant marine radio operator, started the company in 1949 with the \$7,000 he made from selling his family's cabbage farm in Ellenville, N.Y. — a time when fewer than a million U.S. households had television sets.

Within five years, Channel Master was selling \$12 million worth of antennas as TV ownership exploded. The company was the largest seller of indoor antennas throughout the 1950s and '60s with sleek midcentury designs and Space Age model names such as the Canaveral.

The market plummeted in the mid-1980s as consumers moved to cable and satellite to get better picture quality and then-new channels such as HBO, MTV and ESPN. This hurt Channel Master, which went through several ownership changes and a bankruptcy in the decades that followed.

But the brand name is still recognizable to older consumers, which prompted a group of private investors to acquire the company in 2012 and focus on the emerging cord-cutting market.

Channel Master offers a DVR designed to work with over-the-air antennas, as cord-cutters don't want to give up the convenience of watching programs on their own schedule and skipping through commercials. The products also enable consumers to stream over-the-air signals to other internet-connected TV sets and digital devices in the home.

Other technology companies are courting the over-the-air users as well. This fall, Amazon rolled out the Fire TV Recast, a new version of its streaming media device that records broadcast shows when connected to an antenna. Sling Media also entered the market with an antenna-connected recorder called AirTV, and TiVo launched the Bolt OTA.

Companies targeting over-the-air viewers say the bulk of their customers are baby boomers and Gen Xers who grew up with traditional television and a cable box. Their rediscovery of free TV is largely through word of mouth, said Grant Hall, chief executive for Nuvvyo, a Canadian firm that makes Tablo, a digital video recorder for over-the-air TV antenna users.

"Typically they will go to a party and start complaining about their Comcast bill and how it's gone up so high and getting ridiculous, and someone will say, 'Hey, I cut the cord and I've got an antenna now, and I can get all

these channels over the air,” Hall said. “Most people have forgotten about over-the-air TV entirely or recall it as poor experience with ghosts and pictures fading in and out.”

But the quality of over-the-air broadcasting improved dramatically in 2009 when TV stations made a government-mandated switch to high-definition digital transmissions, offering higher-resolution images and more channels.

“Once viewers learn everything is different now and the picture is actually better than cable and satellite — and best of all it’s free — they become converts,” Hall said. He declined to disclose sales figures but said his company’s growth rate has been in line with the popularity of streaming.

The Consumer Technology Assn. has estimated that consumers will spend \$13.4 billion on streaming video subscription services in 2018, a 42% increase over last year.

Rudnick’s over-the-air TV viewing supplements the programming he watches through streaming. He uses his broadband internet connections (around \$60 a month for each home) for online services such as Netflix and Amazon Prime Video. Until recently, he also subscribed to Sling TV’s streaming video service so he could watch pay channels such as ESPN, the NBC Sports Network, Fox Sports and the Golf Channel (he’s switched to YouTube TV). He also has a Channel Master DVR to record over-the-air shows.

The way I stay plugged into this is through talking to young people. I don’t know anyone under 35 who pays for a cable TV subscription.

One industry that is not aggressively promoting this trend is the TV station business, even though broadcasters have been losing audiences to streaming competitors like Netflix. Station ownership groups and the media conglomerates get a cut of pay TV subscriber fees, giving them little incentive to promote over-the-air antenna use.

Consumers largely have to depend on manufacturer websites or blogs such as Cordcutters.com to learn which channels are available over the air in their area and which antenna is right for them.

“We do a terrible job of explaining that your local stations are available over the air for free,” said Neal Sabin, vice chairman of Weigel Broadcasting, a Chicago-based TV station group. “Part of the reason is it’s a double-edged sword. Every time someone cuts the cord and puts up an antenna, it’s lost revenue for us and the cable company.”

Though antennas are enjoying a comeback, analysts do not see over-the-air becoming a preferred option in the new TV landscape. Millennials have not taken to the old-school technology as they are content to stream video on their digital devices.

“They are digital natives,” said Steve Koenig, vice president of research for the Consumer Technology Assn. “People lead increasingly itinerant lifestyles and they expect access to video content wherever they are on whatever device they have in front of them. With over-the-air, you are pretty much sitting on the couch in front of your TV.”

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BUSINESS INFORMATION

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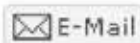
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El Salvador Begins Transition to Digital TV

In El Salvador, the state-owned Canal 10 began broadcasting the open digital signal, and in the next three years it should be implemented by private television stations.

Friday, December 21, 2018



The General Superintendence of Electricity and Telecommunications (Siget) reported that the change from analog and satellite transmissions to a digital signal is progressing successfully, as several private providers have conducted successful transmission tests.

Carlos Valle, head of the Digital Television project and Siget technician, explained to *Elmundo.sv* that "... the digital transmission will allow to implement big changes, besides the quality in the signal, images in high definition and enveloping audio. With the development of digital television, broadcasters may have several channels for the transmission of simultaneous content."

The article reviews that "... in this first phase of digital ignition, the country has only one transmitter located on the volcano of San Salvador. This will cover 60% of the national territory, because of distance and some geographical features. The coverage includes municipalities in the central, western and eastern areas of the country, with the exception of the departments of San Miguel, Morazán and La Unión, as well as some points in Ahuachapán. However, early next year is expected to cover the rest of the country."

Source: elmundo.sv

****WTFDA Editors note* - In 2010, SIGET engineers were contemplating adopting the ATSC standard. After several setbacks for various reasons, SIGET decided the best option would be to use the ISDB-Tb standard.

FM News from South of the

**RJRGleaner Communications Group
Kingston, Jamaica**

Broadcasters of Hitz 92, RJR 94, Fame 95, Power 106

jamaicaobserver.com

Jamaica Observer Limited

LISTENERS to Radio France Internationale (RFI) will no longer be able to hear news and current affairs broadcast in the French language on 96.5 FM in Kingston.

In announcing discontinuation of the French language broadcast, president of the Alliance Française de la Jamaïque, Gilou Bauer said: "Because of budgetary restrictions imposed by the French Government, RFI is obliged to stop broadcasting in Kingston as of the 31st of December 2018. Kingston is one of several stations that were targeted for closure."

Radio France Internationale, generally referred to as RFI, has been broadcasting in Jamaica since 2006. With 35.6 million listeners in 2008, it is one of the most listened to international radio stations in the world, a release said.

Alliance Française de la Jamaïque is the local partner of France Medias Monde, the French Government body in charge of international broadcasting and which is the parent body of RFI. It supervises and co-ordinates the activities of the major public media organisations broadcasting or publishing internationally from

France, operating under the auspices and primary budget of the French Ministry of Foreign Affairs.

Commenting on the discontinuation of the broadcast, president of Alliance Française de la Jamaïque, Gilou Bauer, said: "This is a regrettable loss for the Alliance as RFI was very instrumental in promoting French language and culture, which is the mandate of the alliance. When people are learning a foreign language, it is very helpful if they can hear it spoken every day in their own environment."

The Alliance Française, headquartered in Paris, is an international organisation that aims to promote French language and culture around the world.

Created in 1883, its primary concern is teaching French as a second language. It has 850 centres in 137 countries. Alliance Française de la Jamaïque started in Jamaica in 1956.



WTFDA FM STATION GUIDE UPDATE

JIM THOMAS

On a monthly basis, I make a sweep of the FM listings for Central America and the Caribbean islands, checking with each government license website to see if there is anything new to note. Mexico is an on-going process (almost daily), so they are the exception. I had observed a few months ago, the data I had in the WTFDA FM database for Costa Rica listings was rather dated. Most information was prior to 2010. SUTEL is the licensing authority in Costa Rica. I located their main email address and *began* sending them emails, requesting updates for their FM stations. This was about two months ago. I

would do a follow up every two weeks. Can you say suddenly? At the beginning of last week, I received an email from Pedro Arce. Pedro works in the SUTEL San Jose office and oversees documentation management for licensed broadcast facilities. He sent a very basic email (Spanish), asking what information I was seeking. I replied quickly, and thought I would start with a simple request and see what happened. I asked if I could get some type of documents for assigned FM radio stations on 88 and 89 MHz. It took only one week. Please see the attached .txt document as an example of what he is sending me.

I received the group of text documents early this week. I immediately thanked him and asked if I could get the text documents for 90 and 91 MHz. He sent them today and also asked, what are the next numbers I needed?

I had Doug Smith take a look at one of the text documents to tell me IF anything was *missing* for technical information. He replied that everything is there for the FM database.

And now you know! The DB progressively keeps getting better and better. FYI.



February 2019

SHOWER	DATE OF MAXIMUM ACTIVITY	CELESTIAL POSITION	ENTRY VELOCITY	CULMINATION	HOURLY RATE	CLASS
		RA (RA in Deg.) DEC	Km/Sec	Local Standard Time	North-South	
Anthelion (ANT)	-	10:48 (162) +07	30	01:00	2 - 2	II
alpha Centaurids (ACE)	Feb 08	14:56 (224) -62	56	06:00	<1 - <1	II
February mu Virginids (FMV)	Feb 25	15:28 (232) -05	62	07:00	<1 - <1	IV



January 2, 2019

BROADCAST STATION TOTALS AS OF DECEMBER 31, 2018

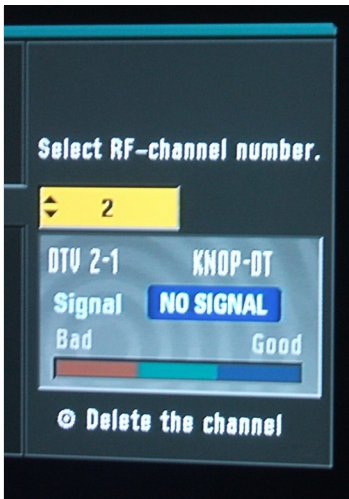
The Commission has announced the following totals for broadcast stations licensed as of December 31, 2018:

AM STATIONS	4619	
FM COMMERCIAL	6754	
FM EDUCATIONAL	4135	
TOTAL		15,508
UHF COMMERCIAL TV	1006	
VHF COMMERCIAL TV	367	
UHF EDUCATIONAL TV	270	
VHF EDUCATIONAL TV	118	
TOTAL		1,761
CLASS A UHF STATIONS	359	
CLASS A VHF STATIONS	28	
TOTAL		387
FM TRANSLATORS & BOOSTERS	7952	
UHF TRANSLATORS	2744	
VHF TRANSLATORS	910	
TOTAL		11,606
UHF LOW POWER TV	1472	
VHF LOW POWER TV	436	
TOTAL		1,908
LOW POWER FM	2172	2,172
TOTAL BROADCAST STATIONS		33,342

- FCC -

TV News

Douglas E. Smith
 1389 Old Clarksville Pike
 Pleasant View, TN
 37146-8098
w9wi@w9wi.com
<http://www.w9wi.com>



February 2019



Location	RF Ch	Callsign	Notes
Alabama			
Ashville	32	W32FG	From W50BO, 15kw; granted
Birmingham	32	WBMA-LD	From 40; amendment from ch. 35. Cannot move until WAAY-TV Huntsville moves to ch. 17 in Phase 2.
Birmingham	35	WOTM-LD	From 19, 9kw, 33-23-32/86-42-58; CL from Montevallo; granted
Gadsden	26	WTJP-TV	Operating at unspecified reduced power since Jan. 17th due to transmitter failure.
Huntsville	34	WHVD-LD	OFF Dec. 30 th pending move to ch. 35.
Troy	48	WIYC	Requests STA for 15kw/345m, to operate at 30% of licensed power due to amplifier module failure.
Tuscaloosa	8	W21DM	From 21, 3kw, 33-29-05/86-48-25; (Vulcan Park, Birmingham) amendment from ch. 32; granted.
Alaska			
Ketchikan	13	KUBD	Power reduced to 410w/-130m, 55-20-59/131-40-28
Arizona			
Globe	18	K16FB	Requests STA for this channel, 10kw, to avoid interference to KHRR Tucson's post-repack facility on ch. 16. Supersedes application for 5.1kw on ch. 16.
Phoenix	27	KASW	Moved from 49, 445kw/551m
Phoenix	46	KDPH-LD	OFF Dec. 30 th pending move to ch. 13.
Tucson	35	K35OU	Returned to the air Jan. 25 th after post-repack transmitter was repaired.
Arkansas			
Fort Smith	19	KUFS-LP	Requests STA 2kw; reduced power pending delivery of more-stringent mask filter; granted. Moved from 54, 15kw.
Pine Bluff	34	KASN	Granted STA 500kw/491m; to replace interim post-repack antenna which was damaged by ice.
Rogers	33	KNWA-TV	Requests STA 895kw/227m, interim post-repack antenna while permanent antenna is installed.

<i>Location</i>	<i>RF Ch</i>	<i>Callsign</i>	<i>Notes</i>
British Columbia			
Fraser Valley	24	CHNU-DT	From 47, 15.9kw/626m, 49-21-16/122-57-30; granted. Moving from a site east of Abbotsford to the Mt. Seymour transmitter farm in North Vancouver.
California			
Atascadero	46	KCCF-LD	OFF Dec. 23 rd pending move to ch. 33.
Bakersfield	4	K04SB	Requests STA from K46II, 700 watts pending completion of custom full-power ch. 4 antenna.
Bakersfield	28	KDBK-LD	From 41; granted
Bakersfield	28	KZKC-LP	From 42 dismissed. Will share on KDBK-LD.
Chico	28	KKPM-CD	Requests site change to 38-42-28/121-28-36 (KBEB-92.5 tower, Rio Linda)
Fresno	5	KVHF-LD	From 42, 1.6kw; amendment from ch. 31; granted.
Fresno	31	KTFF-LD	From 41, 15kw; granted.
Hanford	20	KFTV-DT	Requests STA to use virtual channel 41.1 for a temporary subchannel carrying co-owned KTFF-LD Fresno. KTFF will be off until some time in February pending their move to ch. 31.
Keyes	31	KFMS-LD	From 47; granted
Los Angeles	27	KTBV-LD	From 12, 100 watts, 34-44-41/118-43-40; amendment to change site & reduce power.
Los Angeles	36	KNBC	New backup transmitter in service, 600kw/958m
Monterey	21	KMUV-LP	From 23, 4.5kw; granted
Oroville	31	K31ND	From K42HL, 680 watts; granted
Palo Alto	42	KTLN-TV	Operating at 40% power since Dec. 10 th due to amplifier malfunction. Shares on KAXT-CD San Francisco.
<i>Redding</i>	6	<i>KNNN-LP</i>	<i>Returned to the air Jan. 22nd.</i>
Sacramento	14	KSAO-LD	From 49, 15kw; granted
Sacramento	24	KMAX-TV	From 21, 1000kw/591m
Salinas	4	K04RS	Power reduced to 150 watts, 36-45-23/121-30-09
San Diego	31	KSDY-LD	Requests STA for this channel pending approval of displacement application.
San Francisco	42	KAXT-CD	Operating at 40% power since Dec. 10 th due to amplifier malfunction. Shares on KTLN-TV Palo Alto. Back to 100% on Jan. 15 th .
San Juan Bautista	4	K04RS	Returned to the air Jan. 11 th .
San Luis Obispo	32	K50LZ	From K50LZ, 12.5kw
<i>San Luis Obispo</i>	47	<i>K47GD</i>	<i>License cancelled.</i>
<i>Santa Maria</i>	46	<i>K46GF</i>	<i>License cancelled.</i>
Stockton	14	KMMW-LD	From 28; granted
Stockton	25	KOVR	Requests power increase to 1000kw/609m
Walnut	40	KRMV-LD	OFF Jan. 17 th pending grant of move to ch. 32.
Yuba City	15	K36LY	Requests STA for this channel, 125 watts; temporary antenna for post-repack channel pending installation of permanent antenna. Granted.
Colorado			
Arvada	20	KDNF-LD	Moved from 44, 84kw/344m, 39-35-59/105-12-37; sharing on KRMT Denver. Application to move to ch. 12 dismissed.
Colorado Springs	18	KZCS-LD	From 23, 15kw; granted
Colorado Springs	26	KKTV	Granted STA to transition early, by June 21st, instead of by

Location	RF Ch	Callsign	Notes
			March 13, 2020.
Denver	3	K03IY	From K20KE, 3kw, 40-07-18/104-36-18; CL from Fort Morgan
Denver	12	K27MA	From 27, 1kw, 39-36-00/105-12-37
Denver	28	KCEC	Moved from 51, 400kw/236m
Denver	30	KLPD-LD	From 28; granted
Denver	30	KZCO-LD	Move from 17 dismissed. Will share on KLPD-LD instead.
Pueblo	21	KGHB-CD	Granted STA to transition early, by June 21 st , instead of by March 13, 2020.
Pueblo	27	KVSN-DT	Granted STA to transition early, by June 21 st , instead of by March 13, 2020.
Windsor	26	KZFC-LD	Requests digital conversion from 36, 2.2kw, 40-27-21/104-55-30
Connecticut			
Hartford	22	WUTH-CD	Requests STA to transition early, by Aug. 2, 2019 instead of by Jan. 17, 2020; granted.
Hartford	38	WHCT-LD	Power reduced to 1.2kw.
Florida			
Boynton Beach	29	WXEL-TV	Moved from 27, 1000kw/306m, 25-57-31/80-12-43; sharing on the WPBT Miami transmitter.
Cape Coral	35	WFTX-TV	Requests STA for 822kw/405m, 26-47-08/81-47-45 for interim antenna while tower is reinforced for post-repack antenna.
Lakeland	18	WMOR-TV	Requests tower height reduction to 459m for post-repack facility; granted
Leesburg	7	WACX	From 40, 49.2kw/511m; granted
Miami	4	WMDF-LD	Requests site change to 25-46-20/80-11-29 (Miami Tower, SE 1 st Ave @ SE 2 nd St.)
Miami	17	WPMT-CD	From 38, 15kw
Miami	29	WPBT	Moved from 18, 1000kw/306m
Miami	29	WURH-CD	Moved from 25, 1000kw/306m, 25-57-31/80-12-43; sharing on the WPBT transmitter.
<i>Naples</i>	23	<i>WXDT-LP</i>	<i>OFF Nov. 28th pending move of co-located WZDT-LP to post-repack channel 36.</i>
<i>Naples</i>	39	<i>WZDT-LP</i>	<i>OFF Nov. 28th pending move to post-repack channel 36.</i>
Orlando	5	WDTO-LD	From 28, 3kw; granted
Orlando	6	WATV-LD	From 47, 3kw, 28-35-13/81-04-58; amendment to change site; granted
Sebastian	24	WDOX-LD	Power reduced to 4.55kw, 27-01-32/80-10-42
Tallahassee	38	WUFX-LD	Returned to the air Jan. 4 th but off again on the 8 th , "technical reasons"
Tampa	23	WSVT-LD	From 18, 7.5kw, 27-49-11/82-15-38; granted
Tampa	35	WTAM-LD	From 28
Wabasso	33	WXOD-LD	OFF Jan. 28 th pending move to ch. 8.
Georgia			
Albany	48	W48DU	OFF Dec. 29 th , "technical reasons".
Athens	18	WUVG-DT	From 48, 1000kw/328m
Athens	33	WUEM-LD	From 46 dismissed at request of applicant.
Atlanta	14	WAGC-LD	OFF Jan. 9 th due to loss of programming source. (OnTV4U infomercials)
Atlanta	19	WGCL-TV	Operating at unspecified reduced power since Jan. 3rd due to transmitter failure.
Valdosta	30	WVCZ-LD	OFF Dec. 29 ^h , "technical reasons".
Idaho			

Location	RF Ch	Callsign	Notes
Burley	35	K35OV	From K39GV, 15kw; amendment from ch. 28.
Coeur d'Alene	31	KMNZ-LD	Moved from 40, 1.75kw
Kamiah	11	K11KO	Power increased to 10 watts, 46-11-49/116-02-37
Twin Falls	28	KSAW-LD	From 51; granted.
Illinois			
Arbury Hills	31	W25DW	From 25 dismissed. Will share on WESV-LD, Chicago.
Champaign	19	WEIJ-LD	From 38; granted
Chicago	7	WCHU-LD	From 33, 3kw; granted
Chicago	22	WLS-TV	Requests STA to transition early, by Oct. 18th instead of Mar. 13, 2020.
Chicago	31	WESV-LD	From 40, 15kw; granted. Sharing host for W25DW, Arbury Hills.
Peoria	32	W32EF	Power increase & site change request dismissed at request of applicant.
Rockford	23	WFBN-LD	From 35, 15kw, 42-17-48/89-10-15; granted
Indiana			
Evansville	21	WEEV-LD	Moved from 47
Fort Wayne	17	WEIJ-LD	From 38; granted
Marion	24	WCZA-LD	From 15 dismissed at request of applicant
Wolcott	32	WUDM-LD	From 39 dismissed at request of applicant
Iowa			
Mason City	24	KIMT	From 42, 472kw/466m; granted & moved.
Ottumwa	28	KGLU-LD	From 17 dismissed at request of applicant
Kansas			
Lawrence	25	KMCI-TV	Requests STA 1000kw/306m; interim antenna pending installation of post-repack antennas for KMCI and co-owned KSHB-TV.
Pittsburg	31	KPJO-LD	From 49, 15kw; granted
Kentucky			
Bowling Green	20	WKUT-LD	From 32 dismissed at request of applicant
Louisiana			
Baton Rouge	48	W48DW	OFF Dec. 29 th pending move to ch. 31, after WLAE-TV, New Orleans moves to ch. 23.
Lake Charles	34	KSWL-LD	Moved from 17
Shreveport	28	KTBS-TV	Requests STA 1000kw/457m, interim antenna while KPXJ's post-repack ch. 32 antenna is installed on the same tower.
Maine			
Waterville	17	WPFO	Requests power increase to 1000kw/479m, 43-55-29/70-29-27, tower behind Dielectric antenna factory, Raymond.
Maryland			
Havre de Grace	49	WWDD-LD	OFF Dec. 30 th pending move to ch. 24.
Salisbury	17	WNDC-LP	From 11, 15kw, 38-23-12/75-17-25; amendment from ch. 2 & to change site; granted
Salisbury	28	WGDV-LD	From 32; granted
Massachusetts			
Boston	21	WSBK-TV	Granted STA to transition early, by Oct. 19th instead of by Mar. 13, 2020.

<i>Location</i>	<i>RF Ch</i>	<i>Callsign</i>	<i>Notes</i>
Boston	32	WGBX-TV	Granted STA to transition early, by Aug. 2nd instead of by Mar. 13, 2020.
Boston	35	WHDH	Granted STA to transition early, by Jan. 17, 2020 instead of by Mar. 13th.
Michigan			
Cadillac	9	WWTV	Returned to full power Jan. 18th.
Minnesota			
Granite Falls	31	K31PG	From K41MF; granted.
International Falls	20	K20NR	Moved from K45JD, 45 watts
Jackson	17	K17MY	Moved from K40LA, 2kw
Jackson	27	K27NF	Moved from K41EG
Jackson	28	K28OI	Moved from K43MJ, 3.1kw
Jackson	29	K29LV	Moved from K45EH
Jackson	31	K31NT	Moved from K50KL, 3.1kw
Jackson	34	K34NU	Moved from K51KT
Olivia	31	K31OR	From K49AJ; granted.
St. James	17	K17MW	Moved from K40BU, 500 watts
St. James	19	K19LI	Moved from K44AD, 500 watts, 44-06-28/94-35-56
St. James	22	K22MQ	Moved from K45LJ, 500 watts
St. James	28	K28OH	Moved from K49HE, 500 watts
Mississippi			
Hattiesburg	22	WHLT	Site corrected to 31-24-19/89-14-15
<i>Hattiesburg</i>	<i>42</i>	<i>W42CW</i>	<i>OFF Jan. 11th, T-Mobile</i>
Missouri			
Branson	24	KYCW-LD	From 25, 15kw, 37-10-26/92-56-28; granted
Joplin	23	KODE-TV	From 43, 700kw/322m, 37-04-33/94-33-17
Joplin	25	KFKY-LD	From 20, 37-12-07/93-14-02; amendment from ch. 24 & to change site; granted
Kansas City	36	KSHB-TV	Requests STA 1000kw/285m, to operate on an interim broadband antenna until permanent post-repack antennas can be installed for KSHB and co-owned KMCI-TV.
Kansas City	43	KCDN-LD	OFF Dec. 30 th pending move to ch. 23.
Marshfield	14	K14SH	From K17FU; amendment from ch. 26; granted.
Montana			
Helena	9	KXLH-LD	Site changed to 46-49-30/111-42-16; Hogback Mtn. between Helena and Great Falls.
Livingston	30	K39JX	Requests STA for this channel; granted.
Nebraska			
Norfolk	23	K30BP	Granted STA for this channel, 4.7kw
Nevada			
Fallon	42	K42JS	OFF Dec. 6 th , T-Mobile.
McDermitt	14	K14SE	Moved from K42KW
McDermitt	18	K18NG	Moved from K43NT, 40 watts
McDermitt	20	K20NT	Moved from K50CZ, 40 watts, 42-08-54/117-41-52
McDermitt	28	K28PB	Moved from K48EB
Mina	25	K25PU	Moved from K39EZ, 38-23-42/118-03-08
Mina	34	K34PY	Moved from K43GS, 38-23-42/118-03-08
Reno	23	KRXI-TV	From 44, 400kw/854m; granted

Location	RF Ch	Callsign	Notes
Stead	28	K28PX	Moved from K49CK
Winnemucca	30	K30PX	Granted STA from K45BJ, 110 watts, to operate temporarily on ch. 30 from existing ch. 45 antenna pending completion of new tower in the spring.
Winnemucca	32	K32NR	Granted STA from K47CH; see K30PX, but to use existing K23FR antenna.
Winnemucca	36	K36PO	Requests STA from K49BK; see K30PX. Granted.

New Hampshire

Hanover	36	W50DP	Granted STA for reduced power of 228 watts pending funding of full authorized 15kw.
Littleton	38	W38CB	OFF Dec. 27 th pending move to W25FF
Nashua	32	WYCN-CD	Granted STA to transition early, by Aug. 2nd instead of by Mar. 13, 2020. Shares on WGBX-TV Boston.

New Jersey

Atlantic City	45	W45CP	OFF Jan. 2 nd pending move to ch. 29.
Hackettstown	29	W29EV	From W49BE, 1.5kw
Morristown	17	WNMF-LD	Returned to the air Jan. 15 th .
Paterson	22	WNJJ-LD	Granted STA for this channel, 2.9kw. Will use facilities of co-owned W22EW, which will go dark while WNJJ operates on this channel. WNJJ license would have expired Feb. 4 th if they didn't operate. Returned to the air (temporarily) on Feb. 1 st using the W22EW Port Jervis, N.Y. transmitter.

New Mexico

<i>Alamogordo</i>	40	<i>K40BP</i>	<i>OFF Jan. 14th pending completion of digital companion channel K21LR.</i>
Albuquerque	23	KTVS-LD	From 36, 8kw
Albuquerque	25	KQDF-LD	Requests power increase to 15kw.
Deming	24	K24MX	Moved from K46GU
Deming	29	K29MK	Moved from K49GV
Deming	32	K32NL	Moved from K41FM, 160 watts
Las Cruces	19	K19LZ	Moved from K38MH
Las Cruces	22	K22NM	Moved from K42DJ, 350 watts
Santa Fe	19	KFJK-LD	Requests power increase to 15kw, 35-12-50/106-27-03 (Sandia Crest)

New York

Batavia	24	WPXJ-TV	PR 500kw/374m, 42-46-58/78-27-27 (WNYO-49 tower between Wales Center and Bennington)
Cobleskill	32	WUCB-LD	Moved from 41, 9.4kw
Elmira	29	W29EZ	Moved from W28DO, 776 watts
Greenwich	17	WVBG-LD	From 41, 15kw; granted
New York	32	WXNY-LD	Returned to the air Jan. 25 th .
New York	44	WNYW	Requests reinstatement of STA to operate from 1 World Trade Center. It expired during the government shutdown.
Port Jervis	22	W22EW	OFF Feb. 1 st to allow co-owned WNJJ Paterson, N.J. to operate temporarily & preserve its license.
Port Jervis	26	W26DB	OFF Jan. 15 th .
Syracuse	22	WBLZ-LD	From 49, 15kw; granted

North Carolina

Location	RF Ch	Callsign	Notes
Black Mountain	33	W33EH	From W19HK, 700 watts; granted
Canton	23	W23EY	From W08AO, 5kw; granted
Durham	11	WTNC-LD	From 40, 3kw; amendment from ch. 19; granted Requests STA to use channel 19 temporarily, at 6.56kw, until WTVD moves from ch. 11 to ch. 9 in Phase 9.
Hendersonville	15	W15EJ	From W31AZ, 15kw, 34-56-26/82-24-40; amendment from ch. 16; granted
Lilesville	17	W17EE	From W24AY, 6kw; granted
Lumberton	35	W35DP	From W50EQ dismissed at request of applicant
Raleigh	33	W33EI	From W46EU, 15kw; granted
Tryon	16	W16DZ	From W19CR, 175 watts; amendment from 500 watts to avoid interference to W16DY; granted
Wilmington	33	WILT-LD	From 24; granted
Winston-Salem	16	WXII-TV	Granted STA to transition early, by Sept. 6th instead of by May 1, 2020.
Winston-Salem	32	WUNL-TV	Operating at approximately 50% power since Dec. 6th. Returned to full power Jan. 3rd.

North Dakota

Dickinson	28	KNDX-LD	Requests STA 3.9kw, 46-56-53/102-59-27; to operate on post-repack channel at reduced power pending delivery of equipment for full power. OFF Jan. 2 nd pending weather improvements to allow installation of post-repack equipment.
Williston	20	KXND-LD	Requests STA 3.9kw; to operate on post-repack channel at reduced power pending delivery of equipment for full power. OFF Jan. 2 nd pending weather improvements to allow installation of post-repack equipment.

Ohio

Canton	21	WQDI-LD	OFF Jan. 31 st pending installation of combiner to allow WQDI, WEKA, WUEK, and KONV to share an antenna.
Canton	27	WEKA-LD	OFF Jan. 31 st , see WQDI-LD above.
Cleveland	25	WUEK-LD	Power increased to 7kw, 41-29-13/81-41-01; city from Canton. See WQDI-LD above – presumably the other stations are also moving to Cleveland?
Steubenville	18	WSSS-LP	Request digital conversion from analog ch. 25 dismissed; would interfere with land-mobile in Pittsburgh.
Toledo	36	WMNT-CD	Moved from 48.

Oklahoma

Ardmore	26	K26PA	From K19II, 15kw, 34-00-18/96-48-57. Cannot move until KTEN Ada moves in mid-2020.
Tulsa	23	KTUO-LD	Requests power reduction to 1.35kw, 35-53-38/95-35-07; amendment to change site.

Oregon

Cave Junction	16	K16NK	From K48GD, 600 watts; granted
Glendale	18	K18LU	From K41KL; granted
Gold Hill	15	K15KJ	From K46CH, 1.65kw; granted & moved.
Hood River	23	K23OV	From K38KV, 1.2kw; granted
Lincoln City	23	K38CZ	Granted STA for this channel, 5.823kw; to use interim antenna for post-repack channel pending completion of full power facilities.
Medford	22	K22OB	From K40KR, 100 watts; granted
Portland	32	KNMT	Requests STA to extend repack permit past Phase 2

Location	RF Ch	Callsign	Notes
			completion date of April 12th. Cannot confirm tower owner has obtained all necessary local permits.
Portland	42	KPXG-LD	OFF Dec. 27 th pending move to ch. 21.
Rockaway Beach	44	K17NJ	Moved from K44AV
Roseburg	15	K15KN	From K51GJ; granted. Already has STA.
The Dalles	29	K29NO	From K51EH, 1.28kw; granted

Pennsylvania

Allentown	9	WFMZ-TV	See WBPH-TV Bethlehem.
Allentown	9	WLVT-TV	See WBPH-TV Bethlehem.
Allentown	25	WTFX-DRT	Moved from 38, 14.6kw
Bethlehem	9	WBPH-TV	Requests conversion to DTS. Site #1 (Allentown): 80.6kw/333m, 40-33-52/75-26-24 Site #2 (Philadelphia): 130w/241m, 40-02-30/75-14-10 Site #3 (Reading): 300w/211m, 40-21-14/75-53-56 Affects three channel-sharing partners.
Philadelphia	9	WPPT	See WBPH-TV Bethlehem.
Philadelphia	32	WZPA-LD	From 33, 15kw, 39-44-04/74-50-27; amendment to change site.
Philadelphia	48	WEFG-LD	OFF Jan. 22 nd , receiver unable to access equipment.
Williamsport	17	WVIA-DRT	Moved from 51

Puerto Rico

Aguada	25	WQHA	Moved from 50, 26.9kw/328m
Aguadilla	12	WOLE-DT	Requests 44kw/606m, 18-08-56/66-59-20; Granted STA 24kw/608m, for temporary site as station has lost tower lease.
Arecibo	36	WIMN-CD	Returned to the air Jan. 23 rd .
Fajardo	15	WMTJ	Moved from 16, 174kw/853m
Fajardo	16	WRUA	Granted STA 18kw/567m, 18-16-41/65-51-12; interim operation pending restoration of power to authorized site.
Mayaguez	32	WIPM-TV	Returned to the air Jan. 25th at reduced power 100kw/643m & on post-repack channel.
Ponce	19	WQTO	Requests STA to operate only site #1 of two-transmitter DTS, 696kw/310m, 18-04-41/66-44-54. Pending completion of site #2.
San Juan	21	WTCV	Requests STA 1000kw/534m, 18-16-37/65-51-11. To operate from WRXD-FM site pending repairs to electrical service at licensed site.
Santa Isabel	18	W18DQ	Requests site change to 17-58-45/66-36-48 (R. Leo site, Ponce)

South Carolina

Antreville	22	WSPA-DRT	New to the air, 15kw, 34-20-33/82-33-37 near Anderson
Florence	18	W18EM	From W44CU dismissed at request of applicant
Florence	21	WDXA-LD	From 19 dismissed at request of applicant
Honea Path	16	W16DY	From W28DB, 10kw; granted
Myrtle Beach	18	W18EO	From W39CY dismissed at request of applicant`
Myrtle Beach	27	WUDI-LD	From 36 dismissed at request of applicant
Myrtle Beach	35	WYDJ-LD	From 40 dismissed at request of applicant

South Dakota

Brookings	17	K17NF	Moved from K40FZ, 7.014kw
Rapid City	32	K32JG	Site change request dismissed at request of applicant
<i>Sioux Falls</i>	<i>44</i>	<i>KCWS-LP</i>	<i>Returned to the air Jan. 24th.</i>
Watertown	28	K28OE	From K42FI, 6.516kw

Tennessee

Location	RF Ch	Callsign	Notes
Chattanooga	44	WYHB-CD	Requests STA 7.5kw, 35-12-36/85-16-42 for temporary pre-repack facility pending move to ch. 25 in September.
Greeneville	38	WEMT	Requests STA 1000kw/795m, 36-01-24/82-42-56. (south of Greeneville). To operate old site while post-repack antenna is installed at current site. (WCYB-TV tower near Elizabethton) Old site is within 50 feet of the North Carolina state line!
Lewisburg	29	W29DM	Requests power reduction to 3.92kw at new site 35-37-05/87-02-33. (WKOM-FM 101.7 tower, Columbia)
White House	28	WKUW-LD	Moved from 40, 10kw, 36-16-05/86-47-45

Texas

Belton	46	KNCT	Requests power increase to 1000kw/506m, 31-19-19/97-19-03 (KWTX-10 tower, Moody)
Corpus Christi	18	KCCX-LD	Permit from ch. 24 canceled.
Corsicana	7	K07AAF	From K31MU, 3kw
Fort Worth	22	KUVN-CD	From 47, 2.2kw, 32-48-30/97-07-51; amendment to correct site.
Galveston	48	KTMD	New auxiliary transmitter on the air, 676kw/428m.
Houston	6	KCVH-LD	From 30, 3kw; granted.
Houston	10	KHLM-LD	From 43, 3kw; granted.
Houston	27	KQHO-LD	From 20 dismissed. Will share on KBPX-LD.
Houston	29	KEHO-LD	From 49; granted
Katy	47	KYAZ	Operating at 40% power since Jan. 7th, to facilitate move to channel 25.
La Vernia	46	KQVE-LD	OFF Jan. 2 nd pending move to ch. 13.
Lingleville	7	K07AAE	From K31MU, 3kw, 32-32-12/97-24-47
Longview	28	KCEB	Requests STA 1000kw/457m, interim antenna while KPXJ's post-repack ch. 32 antenna is installed on the same tower. Shares on KTBS-TV Shreveport, La.
Longview	31	KFXK-TV	Requests STA 415kw/261m, interim pre-repack antenna pending installation of permanent post-repack antenna.
Missouri City	10	KUVM-LD	From 22 dismissed. Will share on KHLM-LD Houston.
Richmond	9	KBHO-LD	From 7, 3kw, 29-32-33/95-44-00; CL from Victoria
Rosenberg	30	KXLN-DT	Application for new post-repack backup transmitter, 200kw/579m, 29-34-16/95-30-38
San Angelo	36	KPKS-LD	Granted digital conversion from analog ch. 51, 15kw
Tyler	46	K46KW	OFF Dec. 28 ^h , "technical reasons".
Victoria	16	K16NL	From K22JW, 28-48-07/96-33-10; amendment from ch. 27; granted

U.S. Virgin Islands

Charlotte Amalie	21	WZVI	Moved from 43, 6kw/28m, 18-19-48/64-54-38
Charlotte Amalie	22	WMNS-LD	Granted site change to 18-19-48/64-54-38.
St. Thomas	29	W29CB	Requests STA for 100 watts pending construction of permanent tower; requests conversion to digital, 5kw. Granted.

Utah

Mayfield	14	K14RJ	Moved from K41LI, 50 watts
Mayfield	19	K19LN	Moved from K38LH, 50 watts
Mayfield	23	K23NT	Moved from K46KT, 50 watts
Myton	30	K30PU	License canceled; see text
<i>Myton</i>	<i>43</i>	<i>K43AE</i>	<i>License canceled; see text</i>
Ogden	36	KUEN	Granted power reduction to 200kw/1247m
Ouray	30	K30PV	License canceled; see text
<i>Ouray</i>	<i>44</i>	<i>K44EL</i>	<i>License canceled; see text</i>
Provo	17	KBYU-TV	Moved from 44, 298kw/1257m
Salt Lake City	27	KUED	Moved from 42, 374kw/1266m, 40-39-33/112-12-10

Location	RF Ch	Callsign	Notes
Salt Lake City	45	KSUD-LP	OFF Dec. 29 th pending move to ch. 33.
Spring Glen	14	K14RS	License canceled; see text
Spring Glen	41	K41FX	License canceled; see text
Vermont			
Pownal	20	W20EH	From W46EW, 1.26kw; granted site change to 42-51-50/73-13-57
Virginia			
Harrisonburg	25	WSVF-LP	License cancelled.
Martinsville	40	WYAT-LP	OFF Jan. 28 th , lost tower site.
Richmond	48	WRID-LD	OFF Jan. 10 th pending move to ch. 36.
Washington			
Bellingham	18	K18NJ	From K24IC, 10.6kw; granted
Issaquah	18	KIRO-DRT	Granted STA 1.7kw/70m, to operate at reduced power pending a solution to the translator interfering with its own input.
Moses Lake	19	KUMN-LD	Site changed to 46-58-23/119-46-15, south of George. Washington.
Spokane	20	KREM	Requests STA for 270kw/641m; to operate at reduced power between 10% nighttime to 28-30% daytime and varying with weather. Pending replacement of damaged transmission line.
Spokane	29	K29NM	Moved from K43GZ.
Spokane	35	KHBA-LD	Moved from 39, 10.7kw
West Virginia			
Parkersburg	14	W14EO	From W16CV, 500 watts, 39-21-00/81-33-55 (WXKX-FM tower, across the Ohio River from Vienna) OFF Dec. 30 th , "technical reasons".
Parkersburg	21	W25FB	From W24DS, 1kw, same site as above. Amendment from ch. 25. Granted. OFF Dec. 30 th , "technical reasons".
Parkersburg	26	WIYE-LD	From 47, granted
Wheeling	17	W17EF	From W30CO, 15kw; granted
Wisconsin			
Chippewa Falls	21	WEUX	Requests STA 103kw/185m, interim post-repack antenna while permanent antenna is installed.
Green Bay	49	WGBD-LD	OFF Dec. 30 th pending move to ch. 17.
Janesville	7	WDMW-LD	From 45, 3kw, 42-48-00/88-40-30; amendment from ch. 33 & to change site to location east of Whitewater.
Madison	11	WISC-TV	Requests STA to transition early, by Sept. 7, 2019 instead of by May 1, 2020. Granted.
Milwaukee	29	WPVS-LP	Returned to air under STA in December, but off again Jan. 4 th , financial difficulties.

The U.S. government shutdown has not dramatically affected TV activity. (it has however stopped processing of radio applications) FCC actions necessary to carry out the repack are financed with auction revenue, not appropriations from Congress.

This month we have three sets of LPTVs entering sharing arrangements. In all three cases, the stations in the arrangement applied for the same displacement channel. The pairs are KLDP and KZCO Denver (to share channel 30); W25DW Arbury Hills, Illinois & WESV-LD Chicago (sharing channel 31); and KHLM Houston & KUVV Missouri City, Texas. (sharing channel 10)

The digital translators canceled in Utah are the conversions of the analog translators in the same communities. They filed for new post-repack channels and were assigned tentative callsigns, but their

applications turned out to be mutually-exclusive with other applications from displaced translators. It appears they decided not to pursue alternative channel options.

Trip Ericson notes the Ion station moves are related to a desire to stop leasing tower space from American Towers. Roughly half of all Ion stations are on American Towers facilities – we are likely to see more of this activity now that the government has reopened and moves not related to the repack will be processed. Further city-of-license changes can be expected as in some cases, suitable alternative towers won't reach the existing cities.

WHAT IS THIS?

This month's cover photo was submitted by Paul Mitschler (NM). He asked me what I thought it was about. I'm not sure and I told him I would post it in the February VUD to see if someone would have information about what it was exactly and where it might have been taken.

To me it looks like some cable headend. There are stacked yagis all over the place aimed in various directions. There are also things that look like huge corner reflectors. Are they?

If you can shed more light on this photo, email me and we will publish your thoughts here.



DXers PETS



We originally thought we wouldn't have enough room in this VUD for our last pet photo, but we do.

This is Murphy, our almost 2 year old Cocker Spaniel. We rescued him when he was six months old after seeing his photo on Facebook. Here he is resting after a big skip opening this past summer.

--Dave Nieman, Bradford PA--

Want your pet in the VUD? Why not? Email a picture to me at mikeb@wtfd.org



FM NEWS - February 2019

Editor: Bill Hale fmnews@wtfd.org
Visit db.wtfd.org to stay up-to-date on the latest
FM programming changes



Educational Media Foundation (EMF) has recently changed their Air1 network's music offerings to what they call "Worship Music". We interpret this as 'Contemporary Christian'. So instead of listing each of their over 100 stations here in FM NEWS, we offer this notice.



- AL Cordova 92.5 WYDE-FM
Soft Christian [// WYDE-850 & includes W245CS 94.5]
- AL Cullman 101.1 WXJC-FM
Religious Teaching // WXJC-850 & W245CS 96.9)
- AL Dothan 105.9 W290DG
Urban Contemporary: 'Vibe 105.9 FM' // WARB-700 & W299BX 107.7
- AL Dothan 107.7 W299BX
Urban Contemporary: 'Vibe 105.9 FM' // WARB-700 & W290DG 105.9
- AL Hanceville 100.7 W254DL
Format is Unavailable as // WQHC is Silent

- Contemporary Christian: 'Family Life Radio' // KFLT-830
- AZ Cienega Springs 101.7 KXBB
[Calls assigned to new station]
- AZ Corona de Tucson 103.7 KRDX
[Is silent; includes K244EI 96.7]



- AZ Phoenix 88.3 KVCP-FM
Religious Teaching: 'Christian Information Radio' [call change from KCCF-FM]
- AZ Sedona 107.5 KSED
Country: 'The New Colt @107.5' [Includes K281BE 104.1 Flagstaff]
- AZ Yuma 100.3 K262DI
Calls assigned to new station; will be Talk/Sports: 'News Talk 560 AM KBLU' // KBLU-590



- AK Anchorage 87.7 KNIK-LP
Classic Country: 'Alaska's Real Country' [includes K253CA 98.5 Eagle River]
- AK Eagle River 92.5 W223BJ
Talk: 'Valley News Talk 1020' // KVNT-1020
- AB Edmonton 96.3 CKRA-FM
Adult Contemporary: 'The Breeze'
- AB Peigan First Nation 89.3 CFWE-FM-2
Calls assigned to new station; will become Ethnic/Native American // CJWE-FM 88.1 Calgary
- AZ Casa Grande 104.3 K282CG
Calls assigned to new station; will be

- AR Bearden 92.7 KBEU
Talk: 'K 92.7'
- AR Camden 97.1 KAMD-FM
Sports: 'Fox Sports 97.1'
- AR Harrison 97.5 K248DA
Classic Country: 'Boone County Country 1600 AM & 97.5 FM' // KNWA-1600
- AR Hope 101.7 KBYB
Country: 'Hot FM' // KTTY 105.1 [includes K257FY 99.3]
- AR Mansfield 103.5 KHGG-FM
[Move from 103.1 at Caldron; new station not yet on the air]
- AR Nashville 105.5 KNAS
Classic Country: 'The Maverick'
- AR Texarkana 107.1 KTFS-FM
Talk: '107.1 FM/740 AM, The News Authority' ['740' refers to KCMC-740]

- BC Boston Bar 91.1 CIAM-FM-27
Christian: 'Refresh Radio'; partial // CIAM-FM 92.7
- BC Kamloops 99.1 CKXB-FM
Calls assigned to new station; will become Christian: 'International Harvesters for Christ' // (new) CFIH-FM 88.1
- BC Kelowna 88.1 CFIH-FM
Calls assigned to new station; will become Christian: 'International Harvesters for Christ'
- BC Kelowna 103.9 CKOO
Adult Contemporary: 'Soft 103.9'

**SOFT
103.9**

- BC Penticton 92.9 CFUZ-FM
Variety-Eclectic: 'Peach City Radio'
- BC Prince George 102.7 VF5008
Christian (SDA) // VOAR 96.7
- BC Telegraph Creek 92.7 CIAM-FM-28
Calls assigned to new station; will be Christian: 'Refresh Radio' // CIAM-FM 92.7
- BC Vancouver 104.3 CHLG
Adult Contemporary: 'The Breeze'
- BC West Kelowna 106.9 CBTK-FM-4
News/Talk: 'CBC Radio One Kelowna' // CBTK-FM 88.9



- CA Arcadia 107.1 KSSE
Spanish Adult Hits: 'Jose FM 97.5 - 107.1' [97.5 refers to KLYY 97.5 Riverside]
- CA Arvin 95.7 KKCA
City-of-License change from Lake Isabella
- CA Bishop 88.5 KWTW
Religious Teaching
- CA Fall brook 107.1 KSSD
Spanish Adult Hits: 'Jose FM 97.5 - 107.1' [includes K300AG 107.9 Escalante and K252BF Temecula; '97.5' refers to KLYY 97.5 Riverside]
- CA Indio 93.1 K226BT **and**
- CA Thousand Palms 106.5 K293CL
Rhythmic CHR: 'The Pride of the Valley' // KGAY-1270

- CA Los Gatos 95.3 KRTY
[Is Silent due to the owner selling the land on which their AM station (KLIV-1590) 4-tower array and the stations' studios to land developers; includes KRTY-FM1 & -FM2]
- CA Los Gatos 97.7 KFFG
Alternative Rock: 'KFOG' // KFOG 104.5
- CA Modesto 93.3 KPHD-LP
New station signs on with Variety
- CA Porterville 94.5 K267CG
Regional Mexican: 'La Ley 94.5 FM And 1370 AM' // KTIP-1450
- CA Ridge crest 91.9 KWTD
Religious Teaching
- CA San Francisco 104.5 KFOG
Alternative Rock: 'KFOG' [includes KFOG-FM3 Pleasanton]
- CA Santa Cruz 90.7 KSQD
[Call change from KSRI]
- CA Ventura 107.1 KSSC
Spanish Adult Hits: 'Jose FM 97.5 - 107.1' ['97.5' refers to KLYY 97.5 Riverside]
- CA Visalia 101.5 KVLP-LP
[Is Silent]
-
- CO Pueblo 107.9 KBPL
Active Rock: 'KBPI South' [no longer // KBPI 107.9 Fort Collins]
-
- DE Wilmington 101.5 W268DH
Calls assigned to new station; will be Religious Teaching: 'Relevant Radio' // WWJZ-640
-
- DC Washington 104.7 W284CQ
News/Talk (Conservative): '104.7 WONK-FM' // WWDC 101.1 HD2



- FL Carrabelle 106.5 WOCY
Country
- FL Crescent Beach 106.3 **W29nXX**
Country: '106.3 St. Augustine Country' // WBHU 105.5 HD2 [Move from 106.7 as W294CM at Crescent Beach]

FL Key West 103.3 W277DX
 Call assigned to new station; will be Sports:
 'SportsRadio 1600' // WKWF-1600

FL Live Oak 104.7 WELG-LP
 [Is Silent]

FL Panama City 96.3 W242BF
 Rock: '96 Rock' // WDIZ-590



FL Panama City 101.7 W269DR
 Talk: 'Newstalk 1430' // WLTG-1430

FL Panama City Beach 105.1 WASJ
 Returns to the air (under new owners) with
 Variety Hits: '101.5 Bob-FM'

FL Winter Garden 99.3 WGPD-LP
 Regional Mexican // WPKA-LP 99.9
 [frequency change from 99.7]

GA Athens 92.7 W224CY and
 GA Athens 103.1 W276DH
 Urban Contemporary: 'WXAG 92.7 FM and
 1470 AM' // WXAG-1470 [103.1 is a new
 CP]



GA Atlanta 87.7 WTBS-LP
 [Ends operations]

GA Atlanta 99.7 WWWQ
 Contemporary Hit Radio: 'Q 99.7'

GA Brunswick 101.5 WSOL-FM
 Urban AC: 'V101.5'

ID Seabee 99.1 K256DI
 [Call change from K258DJ] (// KMHI-1240)



IN Auburn 102.3 WGBJ
 Aternative Rock: 'Alt 99.5 & 102.3'
 [includes W258BY Fort Wayne]

IN Bremen 96.9 WHPZ
 Contemporary Christian: 'Positive Hits,
 Pulse FM'

IN Dayton 91.5 WCNB
 Returns to the air with Religious Teaching

IN Evansville 100.1 W261CW
 [City-of-License change from Red Bank]

IN Evansville 104.1 WIKY-FM
 Adult Contemporary: 'WIKY 104.1 FM'

IN Orleans 102.5 WPHZ
 Adult Contemporary: '102.5 Lite-FM'

IN Richmond 95.3 W237AT
 Classic Country: '95.3 The Legend' //
 WQLK 96.1 HD3

IA Keokuk 90.9 KMDY
 Religious Teaching: 'Lift FM 88.3' [Includes
 K209CH 89.7 Quincy, IL]

KS Liberal 106.3 K292HJ
 Calls assigned to new station; will be Talk:
 'The Big Talker' // KGYN-1210



KY Nicholasvi lle 102.5
 WLTO
 Rhythmic CHR: 'Hot 102.5'

KY Paintsville 94.7 WKLW-FM
 Hot AC: 'K 94.7'

KY Paintsville 99.3 W257EE
 Classic Hits: '99.3 FM & 600 AM' // WKYH-
 600

KY Pineville 106.3 WRIL
 Hot AC: 'The Big One, 106.3'

LA Natchitoches 92.3 K222AO
 Classic Hits: '92.3 The Fox' // KRRP-950

LA Natchitoches 95.9 K240EY
 Classic Country: 'Kix 96' // KNOC-1450

LA Port Sulphur 106.7 KKND
 Classic Hits: '106.7 The Crewe'



LA Vivian 104.1 K281CY
 Classic Rock // KNCB-1320

ME Skowhegan 105.1 WTOS-FM
 Rock: 'WTOS Pure Rock' // WTUX 101.1 &
 W287DM 105.3



MB Winnipeg 92.1 CITI-FM
 Classic Rock: '92 CITI - The Capital Of
 Rock'

MB Winnipeg 102.3 CKY-FM
 Classic Rock: 'KiSS 102.3 Winnipeg'

MD Pocomoke 106.1 WXSH
 Classic Hits: 'Xtra 106.1'

MD Newark 94.9 WKHI
 Classic Hits: '94.9 KHI'



MA Framingham 105.7 WROR-FM
 Classic Hits: '80`s And More'



MA Greenfield 92.3 W222CH
 Classic Country: '92.3 The Outlaw' //
 WPVQ-700

MA Pittsfield 89.7 WTBR-FM
 Returns to the air with Variety

MA Springfield 98.1 W251CT
 Country: '98.1 Nash Icon': WHLL-1450

MI Benton Harbor 95.7 W239CJ
 Classic Rock: '95.7 The Lake' // WQLQ 99.9
 HD2

MI Beulah 99.3 WQAN
 Classic Rock: 'Q 100.3' // WQON 100.3

MI Dowagiac 92.1 WHPD
 Contemporary Christian: 'Positive Hits,
 Pulse FM'

MI Frankenmuth 96.5 W243EO
 Calls assigned to new station; will be
 Talk/Sports: 'FM talk 100.5' //
 WSGW-790 [also // WSGW-FM 100.5]

MI Gladwyn 96.5 W243EA
 Religious Teaching: 'The Northern Light
 96.5" // WGDN-1350



MI Grand Rapids 96.9 WLAV-FM
 Classic Rock: '97 LAV FM'

MI Grayling 100.3 WQON
 Classic Rock: 'Q 100.3' // WQAN 99.3

MI Greenville 107.3 WBBL-FM
 Country: 'Thunder 107.3; no longer //
 WTNR 94.5



MI Holland 94.5 WTNR
 Adult Alternative: 'The Q 94.5'; no longer //
 WBBL-FM 107.3]

MI Ironwood 106.9 WUPM
 Hot AC: 'Mix 106.9'

MI Port Huron 92.7 W224DT
 Rock: 'Rock 105.5' // WHLX-1590

MI Traverse City 101.9 WLDR-FM
 Adult Contemporary: 'The New 101.9
 WLDR' // WARD-750



MN Cambridge 105.3 WLUP
 Soft Adult Contemporary: 'Love 105'

MN Eden Prairie 105.7 WWWW
 Soft Adult Contemporary: 'Love 105'

MN Glencoe 96.1 K241DE
 Call assigned to new station; will be Classic
 Country: 'Classic Hit Country' // KGLB-1310

MN Hibbing 93.9 WTBX
 Hot AC: 'The Northland's Best Music'



MN Lakeville 105.1 WGVX
Soft Adult Contemporary: 'Love 105'
MN Minneapolis 94.1 K231BO
Sports: 'Skor North' // KSTP-1500



MN Montevideo 98.3 K252GF
Call assigned to new station; will be
Country: 'Your News & Information Station'
// KDMA-1460
MN St. James 100.5 KXAC
Classic Hits: 'Magic 100.5'
MN St. Louis Park 97.5 KPPS-LP
Variety: 'Park Public Radio'



MS Quitman 98.9 WLYJ
Southern Gospel: 'Joy Christian Radio'

MO Bethany 103.7 K279AP
Sports/Farm: 'KAAN Sports Radio' // KAA-870
MO Cameron 91.7 WRVX
Returns with Religious Teaching: 'Christian Information Radio' [VCY America]
MO Lowry City 104.9 XKEA
Classic Rock: 'Rock 104.9'
MO Sedalia 101.3 K267CO
Country: 'Home Town Country' // KDRO-1490
MO Stockton KIRS
[Call change from KEWP]

MT Big Sky 91.9 K220KD
[Call change from K222CJ]
MT Billings 98.9 K255CW
News/Classical: 'Yellowstone Public Radio'
// KEMC 91.7; move from 90.5 as K213DY
MT Billings 105.1 KYSX
Classic Rock: '105.1 The Bone'



MT Helena 107.9 KMEH-LP
[Is silent]
MT West Yellowstone 90.7 KPWY
[Is silent]

NE Grand Island 98.5 K253CS
Call assigned to new station; will be
Farm/Talk: '880 AM Rural Radio' // KRVN-880
NE Kearney 98.9 KKPR-FM
Classic Hits: 'Power 99'



NE North Platte 98.1 K251CP
Classic Hits: 'North Platte's Greatest Hits' // KOOQ-1410
NE Sidney 95.7 K239BE
Country/Farm: '95.7 & 1340 The Fort' // KSID-1340

NL St. John's 96.7 VOAR-FM
Christian (SDA), moving from 1210 kHz



NV Pahrump 98.1 KPFV-LP
Variety: 'Pahrump Freedom Radio'
NV Winnemucca 92.7 KWNA-FM
Country: 'Buckaroo Country 92.7'
[includes K292BH 106.3 McDermott & K240BV 95.9 Orovada, etc.]



NM Artesia 92.9 KTZA
Country: '92.9 The Brand'
NM Santa Fe 105.9 KRZY-FM
Regional Mexican: 'Radio La Suavecita'



NY Bath 98.3 WVIN-FM
 Classic Hits: 'V-98.3'
 NY Brockport 106.5 W293DT **and**
 NY Rochester 97.5 W248BH
 Tropical: 'Mega 97.5' // WRSB-1590

NC Roanoke Rapids 102.3 WPTM
 Country: 'Maverick 102.3'



NY Cazenovia 88.9 WITC
 Adult Alternative
 NY Elmira 106.5 W293CZ
 Classic Rock: '93.3 WBZD Classic Hits' // WELM-1410
 NY Hillsboro 96.7 WXZO
 Classic Hits: 'METV FM'
 NY New York 104.7 W284BW
 Spanish Religion: 'Radio Visión Cristiana' // WWRV-1330

NC Shelby 96.1 WHQC
 Contemporary Hit Radio: 'Hits 96.1' [includes W262BM 100.3 Charlotte, W265CT 100.9 & W261BZ 100.1 Huntersville]
 NC Weaverville 105.9 WTMT
 Classic Rock: '105.9 The Mountain'
 NC Wilmington 94.1 W231CL
 Regional Mexican: 'La Raza 94.1' // WLSG-1340



NY South Glens Falls 96.9 W245DA
 Soft AC/Oldies: 'Magic 590, 100.5 and 96.9' // WENU-1410, which relays WROW-590
 NY Southport 99.5 WOKN
 Country: 'Today's Hot New Country' [Includes W273AC 102.5 Corning]

ND Harvey 99.5 K258DT
 Classic Rock: 'The Mix, 1470 KHND Radio'
 NS Digby 107.1 CBHA-FM-1
 Calls assigned to new station; will become News/Talk: 'CBC Radio One 90.5' // CBHA-FM 90.5

NC Asheville 106.9 WMIT
 Contemporary Christian: 'The Light FM' [Includes W234CF 94.7 & W292CJ 106.3]

NS Halifax 96.5 CKUL-FM
 Soft AC: 'The Breeze 96.5'

NC Biltmore Forest 96.5 WOXL-FM
 Hot AC: 'Mix 96.5'



NC Asheville 96.1 W241DD
 Business News: 'Biz Radio 1350 AM' // WZGM-1350

NS Halifax 105.1 CKHY-FM
 Soft AC: 'Jewel 105.5 FM'

NC Canton 102.9 W275CP
 Sports: 'Fox Sports Radio 1310, 970 & 102.9' // WYSE-970 [1310 refers to WISE Asheville]

NS New Glasgow 94.1 CKEC-FM
 AC: 'MIX 94.1'

NS Pictou 97.9 CKEZ-FM
 Classic Rock: 'Z 97.9'



OH New Lexington 105.9 WWJM
 Hot AC: '94.5 & 105.9 The Mix' [includes W233AK 94.5 Zanesville]

NC Forest City 107.5 W298CZ
 Oldies: 'True Oldies 1320' // WAGY-1320
 NC Greensboro 100.7 WLJF-LP
 Signs on with Southern Gospel: 'The Joy, Love And Faith Radio'



OH Montpelier 104.5 WLZZ
Classic Rock: 'Z 104'

ST. GABRIEL

CATHOLIC RADIO



OH New Boston 88.3 WSGR
Religious Teaching: 'St. Gabriel Radio'
(EWTN) [includes W212BM 88.3 Jackson &
W224BO 92.7 West Union]; move from
Portsmouth as WUKV]

ON Hornepayne 104.3 CKHP-FM
License cancelled; call deleted



OR Baker 95.3 KKBC-FM
Classic Hits: 'The Boomer 95.3 and 105.9'
[105.9 refers to KRJT Elgin]

OR Elgin 105.9 KRJT
Classic Hits: 'The Boomer 95.3 and 105.9'
[95.3 refers to KKBC-FM Baker]

OR Wilsonville 91.1 KXVY-LP
[License cancelled; call deleted]

PA Allentown 89.3 WJCS
Religious Teaching: 'Your Station For
Inspiration [Includes W249CA 97.7,
W292EO 106.3 and W293CP 106.5]

PA Boalsburg 93.7 WMAJ
Adult Contemporary: 'Majic 93.7' [call
change from WBUS]

MAJIC 93.7

the 99.5 BUS

PA Centre Hall 99.5 WBUS-FM
Classic Rock: '99.5 The Bus' [call change
from WMAJ]

PA Erie 103.3 W277DS and
Erie 105.9 W290BI
Talk: 'Talk Erie' // WZTE-1530



PA LaTrobe 98.7 W254CR
Adult Hits: '98.7 Jack FM' // WXJX-910

PA Muncy 93.3 WBZD-FM
Classic Hits: '93.3 WBZD Classic Hits'

PR Aguadilla 105.1 W286DL
Spanish News/Talk: 'La Ponderosa' //
WVOZ-1580

PR Aguadilla-Aguada 107.9 WYKQ-LP
[Call change from WVDJ-LP]

QC Lachute 104.9 CJLA-FM
Hot AC: 'WOW'

WOW

QC Napierville 103.5 CHOC-FM-1
[License cancelled; call deleted]

QC Saint-Remi 104.9 CHOC-FM
[License cancelled; call deleted]

RI Providence 102.9 W275DJ
[Format is Unavailable, as // WRPA-1290 is
silent]

SC Georgetown 107.5 W298CO
Adult Contemporary: '107.5 Hits-FM' //
WGTN-1400



TN Greenville 95.5 W238DC
Classic Hits: 'Jewel 95.5' // WSMG-1450

TN Knoxville 97.5 WJXB-FM
Adult Contemporary: 'B 97.5' [Includes
W297AX 107.3 Knoxville]

TN Lebanon 91.5 WFMQ
Returns to the air with Religious Teaching:
'Bott Radio Network'

TN Lobelville 98.5 W253DD
Calls assigned to new station; will be
Country: 'The New Sound of The
Tennessee River Valley' // WMAK-1570

TN Norris 106.7 WFGW
Contemporary Christian: 'The Light FM'
[Includes W251BR 98.1 Knoxville]



TN Waverly 93.5 W228DG
Oldies: 'The Home Of Classic Rock & Roll'
// WQMV-1060

TX Amarillo 89.1 KXLV
Is Silent; includes six translators in Texas and Colorado

TX Arlington 95.5 KRQP-LP
Tropical: 'Ritmo 95.5 FM'

TX Austell 105.9 KIBQ
Signs on with Country: 'No Bull Radio'



TX Caldwell 107.3 KAPN
Classic Hits: 'Classic Hits 102.3 & 107.3' [includes K272FK College Station]

TX College Station 93.7 K229DK and

TX College Station 102.7 K274CM
Sports: 'The Zone, 1150 AM and 102.7 FM' [93.7 is a new CP]

TX Dallas 95.3 K237HE
Calls assigned to new station; will be Ethnic // KTXV-890



TX Harper 99.1 KZAH
Signs on with Adult Hits: '99.1 Mike FM'

TX Hebronville 104.3 KUFA
Signs on with Country: 'No Bull Radio'

TX Hico 106.5 KITT
Signs on with Classic Hits: 'K-Hits 106.5'

TX Houston 99.5 K258DA
Alternative Rock: '94-5 The Buzz' // KTBZ-FM 94.5

TX Laredo 93.1 K226CZ
Calls assigned to new station; will be Spanish Religious: 'Radio Poder' // KLAR-1300

TX New Boston 105.1 KTTY
Country: 'Hot FM' // KBYB 101.7

TX Roby 105.9 KAYR
[License cancelled; call deleted]

TX Texarkana 98.7 K254AS
Hot AC: "The Fox" // KTFS-FM 107.1

TX Texarkana 105.9 K290CP
Gospel Music // KTFS-940

UT Enoch 93.9 KUQU
[Silent due to STL failure; affects K285GC Tremonton]

UT St. George 96.3 K242BV and

UT St. George 106.5 K293CU and

UT Shiwits 106.9 K295CY
Soft Adult Contemporary: 'Easy 101.5' // KCLS 101.5

UT St. George 104.5 K283DB
Calls assigned to new station; will be Talk: 'News Talk 890' // KDXU-890

VA Alberta 107.7 WWDW
Classic Rock: '107.7 Rock City'

VA Bristol 93.3 W227DT
Returns to the air with Contemporary Christian/Southern Gospel: 'Music For Life 690' // WZAP-690

VA Charlottesville 92.3 WXRK-LP
Rock: 'Rock Hits 92.3'

VA Charlottesville 94.7 WPVC-LP
Talk: 'The Progressive Voice Of Charlottesville'

VA Charlottesville 97.9 WREN-LP
Oldies: 'Real Oldies 97.9 The WREN'

VA Charlottesville 101.3 WVAI-LP
Urban Contemporary: 'WVAI 101.3 Jamz'

VA Hampton 101.9 W270DA
News: 'All News 102' // WXTG-1490

VA Norfolk 96.5 W243DJ
Country: 'US 106, Today's Country' // WUSH 106.1

VA Richmond 105.1 W286DJ
Sports: '910 The Fan' // WRNL-910



VA Virginia Beach 102.1 WXTG-FM
News: 'All News 102' [also // W270DA 101.9]

WA Richland 106.1 K291BS
Adult Contemporary: '106.1 More FM' // KALE-960

WA Seattle 103.3 K277AE
Talk/Dance: 'Channel Q' // KNDD 107.7 HD2

FM News Continues on page 41

FM Facilities Report

This information is reprinted from Doug Smith's FM News Information posted in the WTFDA Forums <http://forums.wtfda.org>. The WTFDA FM Database is also updated with this information. <http://db.wtfda.org>

Abbreviations:

AF- New Station Applied For	NS-New Station Permit Granted	RA>Returns to the Air
Aux- Auxiliary Backup Transmitter	NW-New Station on the Air	ROA-Request of Applicant
CC- Call Change	PC-Power/Height Change Granted	XG-new site granted
CL-City of License	PG-Power Change Granted	XC-transmitter site changed
CX-Canceled	QG-Frequency Change Granted	PR/QR-Power or Freq requested

February 2019

This is all we have for the month of January. These actions were completed before the government partially shut down. During the shutdown, the only grants were those related to the TV repack. Based on the FM apps granted from January 28th through January 31st, next month's column will be quite a bit larger.

AR Marshall 98.7 K254DB XG 35-54-05/92-36-57
 FL Orlando 93.5 W228DF PG>240w
 FL Panama City 101.7 W269DR NW 250w, 30-10-44/85-46-55 (WLTG-1430)
 FL Tampa 101.9 W270DU NW 235w, 28-00-42/82-29-53 (WMGG-1470 Egypt Lake)
 IL Elgin 96.7 W244EJ PG<82w, 42-01-12/88-22-53
 IN Red Bank 100.1 W261CW PG<4w, 37-50-40/87-33-09
 IA Davenport 105.7 K289BI PG<13w, 41-30-06/90-32-54 (WVIK-90.3)
 MA Medford 98.1 W251CR PG>148w
 MI Eagle 88.5 WJOM PG>25kw/40m
 MO Kalispell 95.3 K237GF QG from K234BZ-94.7, 250w (KKMT-92.3)
 NJ Edison 95.1 W236CT NW 250w, 40-31-45/74-23-34 (WPST-94.5)
 NY Shirley 96.5 W243BF PG>250w, 40-50-32/73-02-25 (WLIM-1580)
 ND Lisbon 107.3 K297BX XG 46-26-15/97-41-22
 SC Chester 104.5 W283CY XG 34-41-53/81-12-07
 TX Houston 99.5 K258DA PG>120w, 29-48-19/95-20-39 (KTBZ-FM 94.5)
 TX New Averly 91.1 KNLY PC<8kw
 TX Stanton 105.9 NEW QG from 95.9, 117m, 31-57-39/101-58-24
 TX Wheeler 98.9 KXNZ PC 3kw/100m, 35-23-59/100-14-15
 UT Gunnison 100.9 K265FM NW 250w, 39-19-18/111-46-11 (KUTC-95.7)
 WI Hayward 93.9 W230AN PG>250w, 45-59-07/91-32-23 (WHSM-FM 101.1)



A tweak to the format of Air1 Stations

PHOTO NEWS



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

February 2019

Wow, I really need to check the VUD Forums more often. Missed these updates late last year from our long time friend Danny Oglethope in Shreveport, LA:



KXDP-LP-6 Denver, CO
930 mi Es
Seen 7-20-18 @ 1740 CT
"La Invasora 87.7"

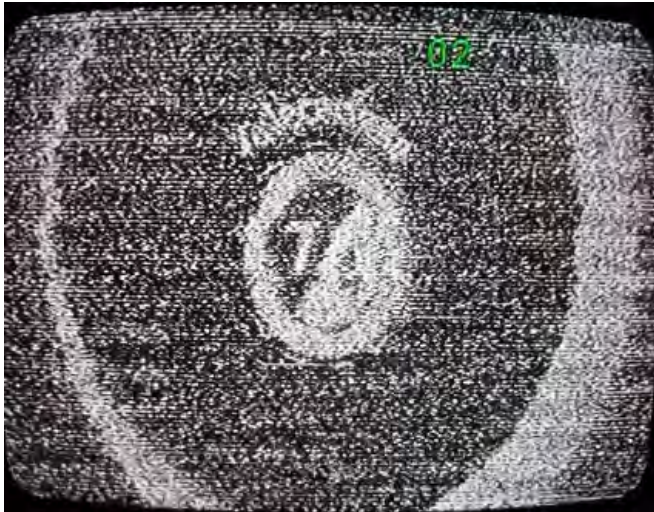


WMTO-LP-6 Moyock, NC
1039 mi Es
Seen 7-16-18 @ 1225 CT
"Streetz 87-7, Hip Hop for the 757"

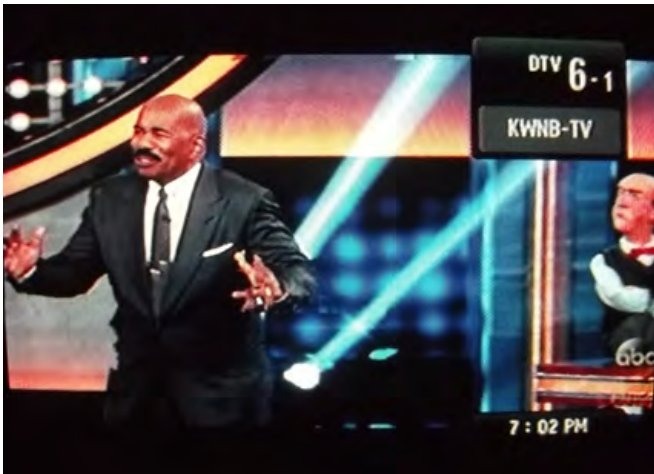


WDCN-LP-6 Fairfax, VA
1019 mi Es
Seen 6-15-18 @ 1730 CT
"WDCN Fairfax lower right"

Amazing, just amazing. Just to see ch. 6 E-skip at all used to be a rarity for me. I wonder how many DXers are even still looking for these?



HRLP-2 Comayagua, HND
1306 mi Es
Seen 8-21-18 @ 1030 CT
"Telecadena 7 & 4"



KWNB-6 Hayes Center, NE
687 mi Es
Seen 7-8-18



WDTV-5 Weston, WV
869 mi Es
Seen 6-20-18
"MeTV Clarksburg"

Danny notes, "Channel 5 was my most productive channel for DTVs despite major interference".



Coast to Coast TV DX

Featuring reports from the entire United States and all of Canada.

Send reports by the 15th of each month to:

Nick Langan
42 Holly Park Drive
Tabernacle, NJ 08088
E-mail: nickl@wtfda.org

The Editor's Note

A belated Happy New Year to you and yours! The "second" winter Es season was overall fairly quiet, and from our perspective, any loggings this time of year are purely a bonus (with winter seasons like 2015 being the pure exception). Still, daylight is slowly increasing and it won't be long before conditions become more favorable for propagation.

We have contributions from Harry Hayes (who had some impressive cross-Appalachian tropo from Ohio back in October) and Doug Smith inside this edition of C2CTV DX. Enjoy!

Doug Smith W9WI

Pleasant View, TN

11/25 Tr

- 00:04 GA Columbus 49 WXTX (299, NEW)
- 00:06 FL Tallahassee 40 WTWC (433, NEW)
- 01:14 TN Memphis 31 WLMT (169)
- 01:50 TN Memphis 29 WKNO (175)
- 02:00 AL Birmingham 50 WBRC (201)
- 02:00 AL Birmingham 30 WIAT (202)
- 07:49 TN Memphis 28 WREG (175)

2 Jan Tr

- 02:10 48 WUVG-DT GA Athens (237 - NEW)
- 02:11 39 WSB-TV GA Atlanta (238 - relog)

6 Jan Tr

- 03:55 50 WBRC AL Birmingham (201 - relog)

All DX by HD HomeRun autoscanner.

Harry Hayes

Wilkes-Barre, PA

Equipment: UHF-Screened 6 ft. dish, Winegard AP 4700 in attic, Zenith DTT-901 box on 1991 RCA Sentry TV

10/4 Tr

- 2320 WOSU-38/34 Columbus OH 380 mi. New
- 2335 WBNS-21/10 Columbus OH New

10/5 Tr

- 0000 WCMH-14/4 Columbus OH New
- 1350 WKYC-17/3 Cleveland OH 300 mi. New

10/11 Tr

- 2043 WCAX-22/3 Burlington VT 270 mi. New
- 2048 WPTZ-14/5 Plattsburgh NY 270 mi.

SIGN UP & Renewal Form

YEARLY DUES \$10.00 USD for Monthly VUD E-ZINE
 Print this form and send it with your dues.

Name _____

Address _____ Apt # _____

City _____ State/Prov _____ Zip _____

Country _____ Interests: TV () FM () 30-50 () Weather ()

E-Mail Address _____

Sign me up/renew me for: 1 year () 2 years () More () _____

Mail your yearly dues to: WTFDA, P.O. Box 501, Somersville, CT USA 06072
Make your checks/money orders payable to: WTFDA
And *thanks* for your support of the WTFDA!

FM News continues from page 36

WA Spokane 103.5 K278CY
 Sports/Hip-Hop: '103.5 The Game' // KGA-1510



WV Lewisburg 97.3 W247BZ
 Talk: 'News Talk 97.3' // WRON-1400
 [includes W265DX 100.9]
 WV Mullens 92.7 WKQR
 Variety Hits: '92.7 The Mix'
 WV Weirton 100.9 W234AV
 Sports: 'SportsRadio 1430' // WEIR-1430
 [Move from Punxsutawney, PA as W234AV]
 WV Wheeling 100.1 W261DH
 Classic Country: 'Willie 100.1 & 1290' //
 WLIE-1290 Bellaire, Ohio

WI Balsam Lake 104.9 WZEZ
 Adult Contemporary: 'Easy 104.9'; call
 change from WLMX-FM

WI Clintonville 92.3 WJMQ
 Country: 'Frog Country 92.3'



WI Hurley 102.9 W275CR
 Oldies: 'Oldies 102.9' // WHRY-1450

WY Sheridan 103.9 K280GK
 Talk: 'Newstalk 930 AM & 103.9 FM' //
 KROE-930