



# VHF-UHF

The Magazine for TV and FM DXers

# DIGEST

September 2019



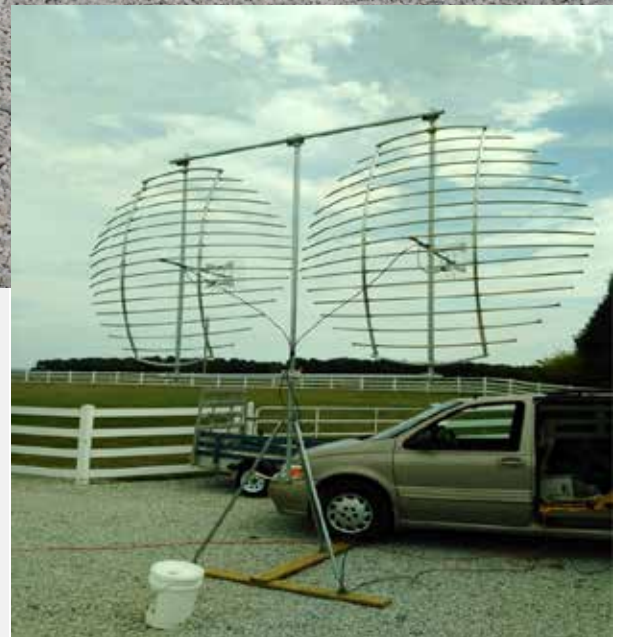
*The Official Publication of the Worldwide TV-FM DX Association*



MIKE GLASS AND STEVE RICH  
ARE AT IT AGAIN

## IN THIS ISSUE

**Thoughts on FM DX Equipment,  
The DTV Repack  
FM Skip Observations  
And all the usual stuff.**



# THE VHF-UHF DIGEST

## 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, KEITH MCGINNIS, JIM THOMAS AND MIKE BUGAJ.



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Our real-time (prop logger) bulletin board is located at <http://wtfdadxbb.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>. Only the FCC and Radio-Locator top us on Google searches.

### FM Radio Station Database

[db.wtfda.org/](http://db.wtfda.org/) ▼

Database of US Canadian Mexican Central American and Caribbean FM Radio Stations.



# The Mailbox

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## DUES RECEIVED

DATE	NAME	S/P	EXP
8/8/2019	Nick Lombardi	GA	7/20
8/8/2019	Stephen Naetzker	AZ	7/20
8/14/2019	Dave Williams	OR	6/20
8/16/2019	Bill Draeb	WI	7/20
8/20/2019	Rick Lewis	WA	8/20
8/20/2019	Bob Hawkins	IN	7/20
8/20/2019	Melvin Murray	FL	8/20
8/21/2019	Rich McVicar	NY	7/20
8/21/2019	Stan Olsen	IL	12/20
8/21/2019	Glen Hauser	OK	8/20
8/24/2019	David Lang	CT	8/20
8/30/2019	Dennis Park Smith	CA	8/20
8/30/2019	Tommy Adair	TN	8/22

Thanks to everyone for their support of the WTFDA!

## SDR SENSITIVITY

From the WTFDA email list comes this: Steve from Cape Cod here: I am on my second SDR FDM - S2. I also have a Yamaha T-85 and Sony XDR-F1HD. Issue: The sensitivity on the SDR is considerably worse than both traditional tuners, no matter what combo of coax and feeds from my APS-13 antenna. Does anyone else have this issue. Does anyone have any suggestions to improve the sensitivity on the SDR?

Russ Edmunds' reply: I ran two RSP-1a's and 3 tuners off the same APS9b all summer. When I've done any comparisons, the differences have been quite small.

And Nick Langan's reply: I've run two Airspy SDRs and one RSP-1A SDR (along with one Sony XDR-S3HD) for the past four years. The only time I've ever seen a sensitivity difference is aiming into a high RF direction (here, Philadelphia). I have to turn down the RF gain on the SDRs in the software to

avoid overload, and thus the sensitivity is not quite on par with the Sony. Otherwise, the SDRs are virtually equal with the Sony. I would just make sure the RF gain setting in your ELAD software is adjusted as high as it is possible without overloading (this may even be an automatic setting with the ELAD, not sure).

## CUBAN RADIO



Jim Thomas reports: The ICRT in Cuba (broadcast license regulatory agency) announced on July 9th this year that Cuba has officially gone to 1000 radio transmitters, which is the combined total of AM, FM, (and one shortwave) radio stations and repeaters. This is the total of original broadcasters, combined with the numerous repeaters on both bands that make up the network of stations across the island. Cuba made a big deal this past May that their 100th FM station had signed on the air.

The WTFDA FM Database has a total of 339 FM radio stations and repeaters listed for Cuba. The other 661 stations and repeaters are on the AM airwaves.

That's it. See you in another 30 days. -Mike



# the DATABASE update

The Latest News from  
the WTFDA FM Database.

*Southeastern view, city at top left.*

*The Volcano, El Boquerón*

EL SALVADOR. This past July, El Salvador's government redesigned the website for SIGET (Superintendencia General de Electricidad y Telecomunicaciones). SIGET is the regulatory authority, which includes the issuance of broadcast licenses. The website redesign included an upload section for PDF license documents, something that hadn't been readily available before. This has made it possible to make the El Salvador FM listings in the database much more accurate.

PANAMA. The Autoridad Nacional de los Servicios Públicos, or ASEP, authorized a power increase this past Spring for the TVN affiliate, 96.7 HORDC-2 in Ciudad de Panamá. In 2017, TVN News-Talk Radio 96.7 was authorized to increase to 98 kW, from 25 kW. In May, they boosted their power again, this time to 178,567 watts! This makes them the most powerful signal in all of Central America. Panamá is an east to west country and TVN's signal is highly directional to take advantage of that. It will be tough for southern US dxers to pull in that signal during an Es event to that area of the globe.

*Photo credit - Drone imagery by Edgardo Yaffar,  
local guide and photo journalist.  
San Salvador, El Salvador*

Searchable Online Database of North American FM Radio Stations  
United States, Canada, Mexico, Central America & The Caribbean  
A database designed by DXers for DXers, Hobbyists and Radio Listeners

- \* FREE with NO Search Limits
- \* ACCURATE
- \* Easy to Use
- \* Designed for DXers by DXers
- \* US/Canada/Mexico Updated Daily



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## HAVE AN UPDATE OR A QUESTION?

You can always email us with questions or comments. And if you are so inclined, email us with updates to stations in your area. We are always looking for RDS data or format changes and call changes that somehow never made it to RadioInsight or StationIntel.

If you send us station updates, we'll use them and mention it on our new What's New webpage.

Who are we? We are members of the WTFDA. Your editors are Mike Bugaj (CT), Bill Hale (TX), Jim Thomas (MO), Fred Nordquist (SC) and Nick Langan (NJ).

For general question and comments, or for updates to Canada, the United States and other English speaking countries, use [dbupdates@wtfda.org](mailto:dbupdates@wtfda.org)

For updates to Mexico, Central America and other Spanish speaking countries, use [mexdbupdates@wtfda.org](mailto:mexdbupdates@wtfda.org)

Thank you! We look forward to hearing from you!



# FM DX Equipment

Twice recently I've been asked about available DX equipment by new FM DXers. Many of our older FM DXers have been buying stuff for decades now and have accumulated piles of spare equipment in our garages and basements. Today's FM DXers never had that opportunity. They are beginning from the ground up, and they are finding that it's not so easy to put together a DX shack as it was as recently as 20 years ago and it can get discouraging and frustrating.

DXing has always been a niche hobby and FM DXing even more so. Even though our ranks are small, we've always been able to purchase really decent FM yagi antennas to install on our roofs. All of us, at one time or another, probably used a Finco FM5 or FM4G, or a Channel Master 4408, also known as the Stereo Probe 9. When the APS-13 came along around 2000 many of us bought one (or more than one) and later stocked up on the Winegard HD-6055/6065 when we knew it was going to be discontinued.

But times changed. The Finney Company went under and Antenna Performance Specialties went out of business. Both Winegard and Channel Master quit making FM yagis because the market for them was just too small.

So now, in 2019, what's left that can be useful for FM DXing? Unfortunately, not much. At the top of list would be a series of quality fringe yagis from InnovAntennas, a firm in the UK. These range from 8 elements upwards of 17 elements, and as you might think, these are not cheap. Prices range from around \$200 to around \$300 each, depending on size. You also need to pay for shipping to the US from the UK. A photo of the Innov 8 element FM yagi appears on the right. A few WTFDA members own the 11 and 14 element versions.



An Innov antenna is fine for those with the funds to buy one, but for other DXers on limited funds, the price is not fine. The only other reasonable priced (\$30) consumer antenna we could find on the market today is a four element yagi from Stellar Labs. These are available from



*Stellar Labs FM Yagi*

MCM/Newark Electronics and are available online. There is only so much gain you can pull out of a four element antenna and the front to back ratio can't be too good, but at least it has some gain, it's available and it won't break the bank for those who don't have the funds for an antenna from the UK.

Another antenna that won't break the bank is the common dipole. Even a 300 twin lead dipole is preferable to nothing. It's bi-directional, which means you can null out stations, and it does have a bit of gain, so it's definitely worth a try if nothing else is available.



One thing you need to be aware of when you use twin lead is that newer tuners and today's new SDRs have 75 ohm inputs and only 75 ohms, so you need a balun with which

you can connect the twin lead which will then plug into the 75 ohm F connector on the back of the receiver.



This little thing on the left will do the trick. It's cheap and should be readily available online. Screw your dipole into the balun with the two screws provided, and then plug the balun into the 75 ohm connector on your receiver.

## RECEIVERS:

Once upon a time you could buy a cheap tuner on eBay, pull out the ceramic filters and replace them with narrow filters and bingo! You'd have yourself a DX machine with great selectivity. That's really not the case anymore since the original Murata filters are very hard to find, and those you do find are surface mounted components that won't fit anyway. So veteran FM DXers rely on either stand alone tuners or, more recently, SDRs. SDRs are the big thing now, and for good reason as we will soon see.

For stand-alone tuners, you can't beat the Sony XDR-F1HD. When these came out a decade ago you could buy one for \$100 or less. But since they were discontinued, the selling price has shot up to \$300 or more for one. In its time it was top of the line for many FM DXers. I personally owned two. Some units run hot and need a fan on top to keep them cool. Others have problems now with the brightness of the display. They are getting on in years.



*Sony XDR-F1HD*



*Sangean HDT-1*

Sangean built two superb FM/HD DX radios; the HD1 and HDT1X. Both are almost copies of each other and work well. Some DXers prefer them over the Sony XDRs. You can find them online for around \$100.

The tuners mentioned above were designed for HD radio. They will decode HD info plus RDS info in their displays. This is a great help for FM DXers to log stations. One glaring omission in their display information is the lack of displaying the stations' PI code. Every station using RDS sends out a PI code along with the rest of the data. The PI code is the equivalent of the station's callsign and is the first bit of information to decode. Many FM DXers use PI codes to ID stations and the WTFDA FM database lists all we know about, and that number keeps going up every day as more FM stations add RDS. Also be aware that none of the tuners mentioned has a headphone jack, so if you purchase one you will also need to purchase an audio amplifier to go with it. We have no recommendations for audio amps. What you get is up to you.

While standalone tuners are nice, many FM DXers are abandoning them in favor of software defined radios, also known as SDRs. These are small – you can hold one in the palm of your hand. They are sensitive and they are super selective but some may have the tendency to overload a bit in high signal areas. You connect them to a computer with a USB cable, tune and adjust them with software installed on your computer. You can pay a few hundred dollars for one (Elad FDM-S2) or pay somewhere in the range of \$100 to \$250 for others.



*ELAD FDM-S2*

Elad makes the FDM-S2 and FDM-S3. The S2 costs around \$500 or so. You can and record see up to 6mhz of spectrum on the Elad user interface and you can play your recordings back at a later time. It is very overload resistant. If you live in a congested, urban area, this SDR might be your choice.

Both Airspy and SDRplay have been around for a while now and you could consider them competitors. Airspy makes an R2 which can display, record and playback up to 10mhz of spectrum. Their newest SDRs are the HF+ and the HF+ Discovery. The HF+ only displays around 700khz of spectrum but reports are that it will NOT overload no matter what. The HF+Discovery is supposed to be even better. Airspy also makes the Airspy Mini that displays up to 6mhz of spectrum and plugs into a USB port on your computer.



*Airspy HF*

SDRplay started out making the RSP1 and RSP2 SDRs. I use both and find them very good for FM DXing. You can conceivably display 10mhz of spectrum with them but at that bandwidth the units lose some sensitivity so one would be best advised to keep them at 8mhz instead, where they work fine. The RSP1A and 2A replaced the RSP 1 and 2. For FM DXing, there's not much difference. What's new now is the RSP Duo, an SDR with two individual tuners, which for FM DXers is great if you use antenna phasing. Plug two antennas into the back of the unit, turn a dial and you can phase out your locals without using an external phaser.



*RSP Duo*

As mentioned before, all SDRs require you to use some kind of interface installed on your computer to control your SDR. The Elad has its own UI but can also be controlled with SDR Console. The RSPs have a UI called SDR Uno which was developed just for them, but the RSPs can also be controlled by SDR Console. The Airspy models use SDR Sharp (SDR#) for their own interface, however, SDR Console also works. No matter which of the above UIs you use, the software will display PI codes. The UI downloads are free.

Notice that none of the tuners mentioned in this article are still in production. Sony has also manufactured some actual radios with the same tuner as the XDR series that are also great for FM DXing. And Sangean has a HDT-20 tuner on the market that reports say isn't quite as good as their discontinued HDT-1/1X tuners.

One thing we didn't mention is coax. You have two choices: RG6 or RG6U. Either one is suitable for FM DXing since signal loss at 100mhz is negligible.

The biggest negative for anyone entering the hobby for serious FM DXing is the lack of antennas. Choices are very limited. There may be some new "old stock" items floating around the Facebook groups being sold by various individuals, but check their prices before you commit. You might be subjected to sticker shock. One might want to take a look at the K6STI website where almost every FM antenna ever made has been modeled and anyone could take the specs and build their own Probe 9 or APS13.

The biggest positive for FM DXers is the variety of SDRs on the market now. Granted that these were mainly developed for hams, but FM DXers can surely take advantage of them. They've made logging FM stations easier than it has ever been. Consider using one.

# REPACK FALLOUT

For all intents and purposes, phase four of the DTV repack for Connecticut is over and we now know what the final arrangement of the VHF and UHF TV spectrum will be. My location is about 15 minutes south of downtown Springfield, MA and about 30 minutes north of downtown Hartford, CT. Mike Bugaj

## LOW VHF

- 2 – Open (although WDYN PA has decoded and its pilot runs S6-S7 much of the time)
- 3 – Open (although WJLP decodes with enhancement and its pilot runs S7 much of the time)
- 4 – Open
- 5 – Open (although WGBH Boston decodes with enhancement)
- 6 – Open (although both WRGB Albany NY and WPVI Philadelphia can and do decode with enhancement)

## HIGH VHF

- 7 – Open (although both WABC NYC and WPRI Providence can and do often decode)
- 8 - Open
- 9 – Open, except for WEDN Norwich CT to the Southeast
- 10 – WTNH New Haven (ABC) very strong and stable signal at 45 miles SSW)
- 11 – WWLP Springfield (NBC), WNW @ 12mi
- 12 – Open
- 13 – WGBY Springfield (PBS) moved here from ch22 with a very strong signal North @ 18mi

## UHF

- 14-19 Open
- 20 – WSHM-LD Springfield
- 21 – WEDW Bridgeport which shows a signal 24/7 and decodes with some enhancement (WFXQ Springfield will move there)
- 22 – WUTH-CD Hartford
- 23 – WDMR-LD Springfield
- 24 – Open (WHTZ Springfield will move here)
- 25 – Open
- 26 – WGGB Springfield (ABC) 18mi
- 27 – Open
- 28 – WHPX New London (Ion), transmitting from Farmington (Hartford) now, not New London
- 29 – Open (WTXX-LD Hartford will relocate here 26mi)
- 30 – WEDH Hartford (PBS) 21mi
- 31 – WVIT Hartford (NBC) 26mi
- 32 – WRNT Hartford 26mi
- 33 – WCCT Waterbury/Hartford (CW) 26mi
- 34 – WTIC Hartford (FOX) 26mi
- 35 – Open
- 36 – WFSB Hartford (CBS) 21mi

As you can see from this list, after it all shakes out I will be limited to LOW-VHF plus ch8, ch12 and ch14-19, 25,27 and 35. My time spent DXing will probably be minimal, at best.

**REPACK FINISHED WHERE YOU LIVE?**  
SEND US YOUR NEW TV BAND SCAN AND WE  
WILL PUT IT HERE!



# 15 years of E-Skip observations

Nick Langan

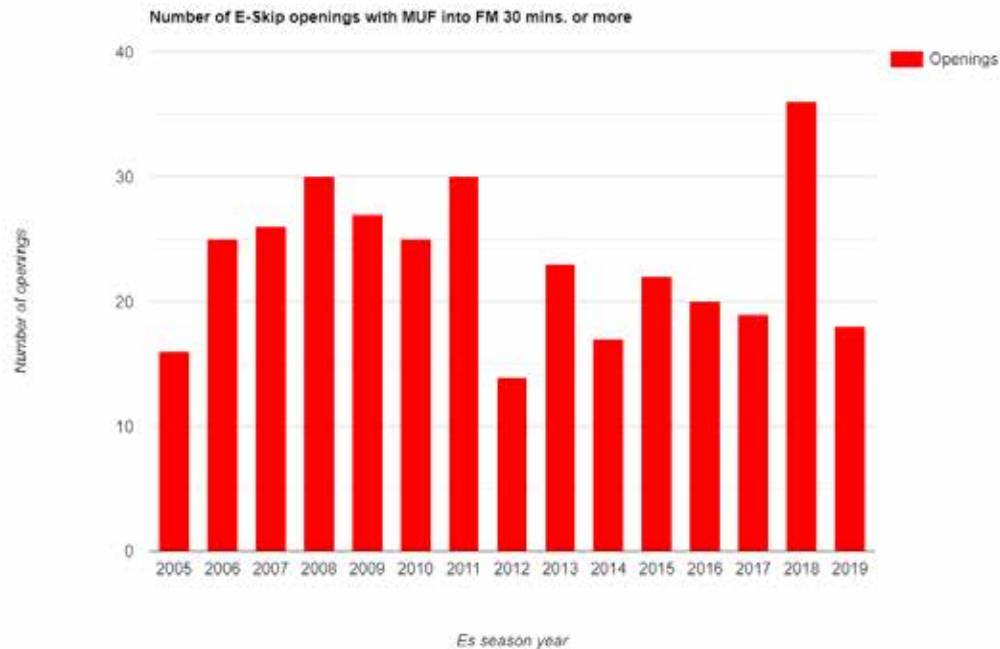
The 2019 season marked the 15<sup>th</sup> consecutive year I've been actively paying attention to E-Skip propagation from Southern New Jersey. With this inglorious milestone comes a fairly large amount of data and observations. Always wanting to go back through the seasons and assess if my perceptions of the good ones vs. the bad were on the mark and inspired by what seemed like a lacking 2019 Es campaign, I decided to go through an exercise and tally up results from the last 15 E-Skip seasons into different categories. The research is initially based off of my logging and observations (2005-2014 from Florence, NJ and 2014-present from Tabernacle, NJ), but not completely. Particularly in early seasons, not paying attention as closely and before the advent of SDRs and when round-the-clock audio recording through software was not as common, there are gaps in my observations. So, I relied on the logs of several different active DXers and WTFDA members, within reasonable proximity to me and who often recorded similar activity amongst the more common Es clouds. Those are Russ Edmunds (PA), Dan Oetting (MD), Rick Shaftan (NJ), Michael Temme-Soifer (NJ), and Steve Walko (PA).

I included E-Skip openings between April and August. The high MUF opening of Labor Day weekend 2011 just missed the cut, as do any winter openings.

Sporadic-E is unpredictable, obviously, and every season we encounter openings where someone 40 or 50 miles away might have top-of-the-dial conditions and ourselves less fortunate. That said, I generally was able to amass data that was representative of the northern Mid-Atlantic region (roughly encompassing NJ, DE, Eastern PA, Eastern MD, and Southeastern NY). Move beyond 200 miles in any direction and this data probably changes rather significantly. It's doubtful 15 years is enough to draw any large conclusions (unlike Pat WA5IYX's tireless efforts of observation), but this still may be of some interest.

## Number of E-Skip openings with MUF into FM of 30 minutes or greater

The first tally I made was the number of observed E-Skip openings with a MUF of 88 MHz. for at least 30 continuous minutes. One calendar date could have multiple such openings, provided the MUF dropped below 88 MHz. for at least 30 minutes. A year-by-year graph of the results is below:

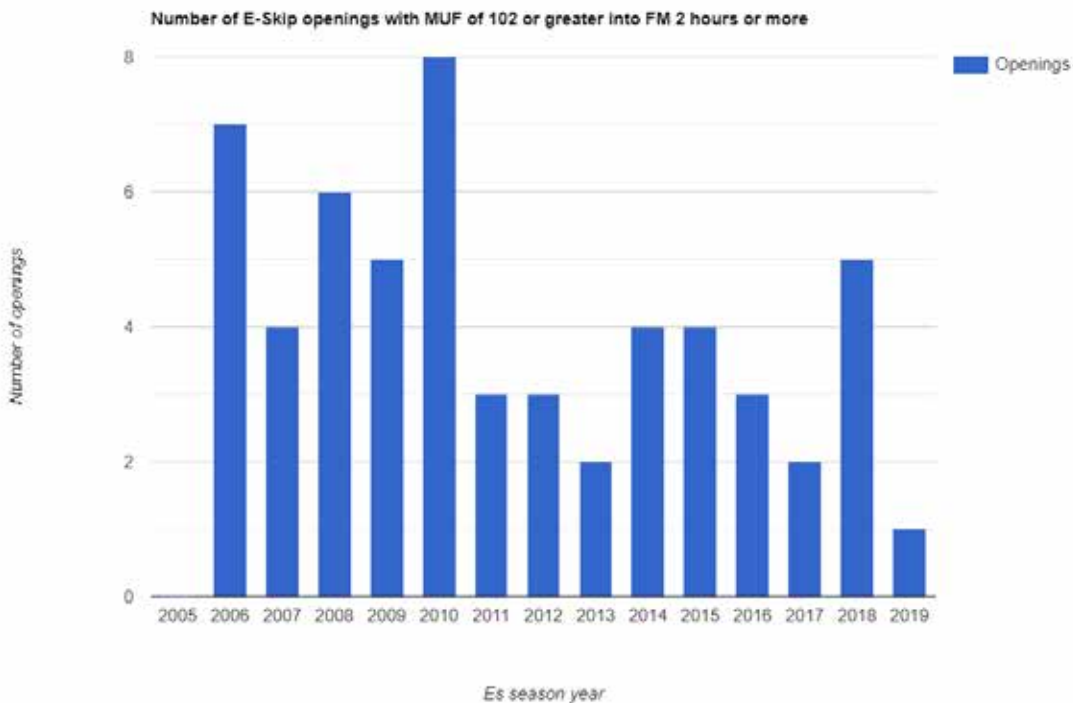


Many of us in the PA/NJ region felt 2018 was the most active E-Skip season we've personally witnessed, and the data backs that claim as it leads the way with 36 E-Skip openings with a 30-minute FM MUF, six more than the two-way tie for second place (2008, 2011). The awesomeness of the 2018 season stands in contrast to the results of the other recent Es seasons. Anecdotally, I've always felt the E-Skip seasons between 2006-2011 were better than what we've had lately, and indeed, while each of the seasons between 2006-2011 had 25 or more E-Skip openings with a 30-minute FM MUF, only one such season since 2011 has had 25 or more such openings (the aforementioned 2018).

This past season (2019) had 18 openings with a 30-minute FM MUF, tied for fourth-fewest. 2012 was the lousiest season by this metric (just 14 such openings), and by memory that definitely checks out (yet, the July 24, 2012 marathon opening helped salvage the season).

**Number of “strong” openings (E-Skip opening with MUF of at least 102 for 2 hours or greater)**

It was difficult to come up with a way to quantify how to categorize a “strong” opening. Particularly now aided with SDRs, a 15-minute burst can easily be more productive versus a 2.5-hour opening that seems to be stuck with the same target area (here’s looking at you, South Florida). Any other metric that did not include duration, however, seemed too subjective (i.e. number of RDS hits? Number of locals overtaken?). Using new logs or total number of logs as a barometer was also not a consideration. Thus, I settled on using an E-Skip opening that had an observed MUF of 102 MHz. or greater for at least 2 hours. A year-by-year graph of the results is below:



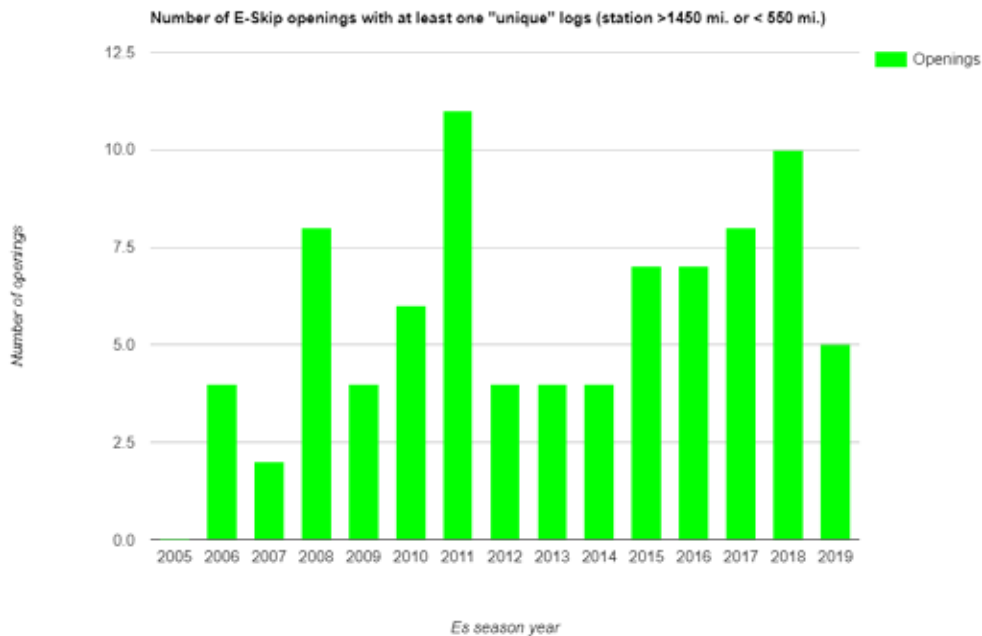
The 2010 E-Skip season was famous for disappearing shortly after the July 4<sup>th</sup> holiday, but June 2010 alone had 5 “strong” openings, including a multi-hour opening on the 18th that produced reports of E-Skip up to TV 13 in

the Midwest. This past season had the second-lowest high MUF opening total (only the July 20 event). Of the years in this report, my confidence is lowest in 2005, with myself very much being in the “newbie” category that year, but I could find no evidence of a “strong” opening that season in the Mid-Atlantic based on the reports I combed through.

This metric is not perfect. Perhaps the duration should be shorter. 2018 would rank higher if this was shortened to 90-minutes (intense openings on June 15, 2018 and June 25, 2018 would have made the cut). I am open to feedback.

**# of openings with at least one “unique” log (station received 1450 mi. or greater OR 550 mi. or less)**

The “unique” log category I expected to be strongly skewed toward recent years with the proliferation of the SDR. Being able to record the whole band for hours at a time certainly increases the probability of receiving a unique E-Skip log. Interestingly, it comes at a time where it’s harder than ever in almost all areas to find open channels, so I still wanted to plot the results and see what the data looked like.



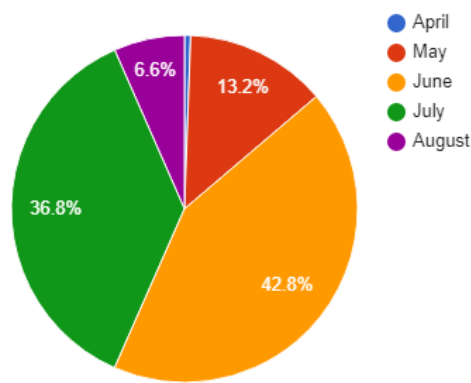
2015 was the year I began using an SDR full-time, and it definitely associates with an uptick in longer (or, more so in my experience, shorter) than normal E-Skip logs. Yet, 2008’s total of 8 holds its own (I would

have loved to have used an SDR that season!), and I was surprised to see 2011 lead the way with 11 such logs. 2011 featured multiple openings to Puerto Rico and two instances of Mexico (5/31, 7/12).

### The most active E-Skip months

It should come with little surprise that June ranks as the most active E-Skip month in terms of 30-minute FM MUF openings (42.8% of openings occurred in June). July is just behind with 36.8%, while May ranks a distant third with 13.2%. August is fourth at 6.6%, however, since 2015, there does seem to have been a shift of sort. Each of the last five Mays has featured just one E-Skip opening with a 30-minute MUF, while the month of August has had ten such openings in that same timeframe. The only openings in this research noted in April were April 27, 2011 (a long-duration high MUF event) and April 28, 2016 (a rare strong opening to the Austin, TX area here in NJ).

Monthly 30 minute Es opening percentage, 2005-2019

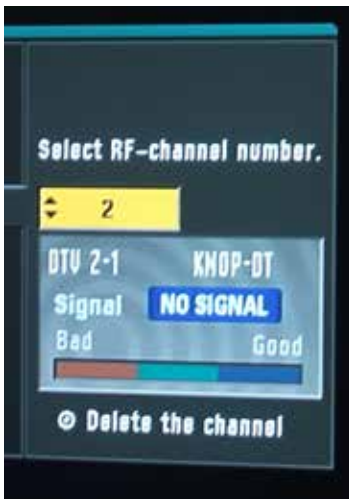


### Conclusions

The 15-year average amount of 30-minute MUF into FM openings per season is 23.2, while the average “strong” opening total per season is 3.8. Overall, this was an enjoyable exercise and I would love to dive deeper to look at favorable dates and regions received via Es.

# TV News

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<http://www.w9wi.com>



September 2019



Location	RF Ch	Callsign	Notes
<b>Alabama</b>			
Enterprise	14	WFRW-LD	Requests STA 600 watts/27m; interim reduced-power installation pending system-wide upgrade. Granted. Returned to the air July 29 <sup>th</sup> .
Enterprise	27	WGEI-LD	Returned to the air July 29 <sup>th</sup> .
Hoover	33	WPXH-TV	Requests STA 75kw/282m, 33-29-02/86-48-21; interim post-repack facility pending delivery of permanent antenna. Granted.
Mobile	27	WKRK-TV	Requests STA 1000kw/499m; interim pre-repack facility pending installation of permanent post-repack antenna. Interim antenna will become permanent post-repack antenna for WFNA Gulf Shores.
Montgomery	4	WNHT-LD	Requests power increase to 3kw/54m, 33-14-33/86-48-53; granted.
Montgomery	22	WCOV-TV	Requests STA 40.6kw/219m, 32-20-07/86-17-16; interim post-repack antenna pending installation of permanent antenna. Granted.
Selma	29	WBIH	Requests STA for reduced power of 461kw/408m.
Talladega	23	WOIL-CD	Requests STA 838 watts/344m; interim post-repack facility pending completion of permanent facility.
<b>Arkansas</b>			
Fort Smith	6	KWFT-LP	Moved from 34, 3kw/239m, 35-47-49/94-10-05.
Fort Smith	14	K14TA	From K29KW, 15kw/114m, 36-08-50/94-11-14; granted.
Paragould	24	KPMF-LD	STA for this channel, 7kw/101m, 35-16-33/89-46-38 dismissed. Has already moved to ch. 24 at full power of 15kw.
Springdale	19	K19MT	From K47ND, 15kw/132m; granted.
<b>California</b>			
Banning	10	KRVD-LD	From 5, 3kw/253m, 33-56-41/117-49-19 dismissed for procedural reasons.
Banning	26	KRVD-LD	Returned to the air Aug. 14 <sup>th</sup> on this channel under STA; 300 watts/-35m, 34-03-47/118-21-10, the SAG-AFTRA Building on Wilshire Boulevard in Los Angeles.
Crowley Lake	35	K49EA	From 49 dismissed. Tower required registration but wasn't registered.
Fresno	6	KJKZ-LP	From 27 dismissed. Granted ch. 4 instead.

<b>Location</b>	<b>RF Ch</b>	<b>Callsign</b>	<b>Notes</b>
Fresno	14	KJEO-LD	From 32; granted. 15Kw/659m, 36-44-45/119-17-03.
La Jolla	38	K67AM	From 67 dismissed.
Lakeshore	31	K31PS	From K35LB; granted.
Los Angeles	2	KHIZ-LD	Returned to the air July 24 <sup>th</sup> .
Lucerne Valley	47	KIJR-LP	Request for STA 9kw/168m dismissed.
Morongo Valley	18	KJHP-LP	OFF July 20 <sup>th</sup> , tower requires structural work.
Ontario	27	KPOM-CD	Power increased to 14.4kw/708m, 34-11-16/117-42-01.
Ontario	27	KSFV-CD	See sharing host KPOM-CD above.
<b>Sacramento</b>	<b>48</b>	<b>KSPX-TV</b>	<b>Requests STA 4.3kw/226m, 38-14-50/121-30-07; interim pre-repack facility at alternate site. Lease for existing site expires August 31<sup>st</sup>. Permitting &amp; electrical delays at new site.</b>
San Fernando	27	KPCD-LD	From 40, 1kw/655m, 34-14-10/117-19-11; from Big Bear Lake; granted.
San Francisco	3	KURK-LD	Requests power increase to 3kw/465m. Dismissed.
San Francisco	21	KCNZ-CD	From 28, 15kw/410m, 37-41-12/122-26-07.
San Francisco	21	KOFY-TV	See sharing host KCNZ-CD.
San Jose	24	KBKF-LD	Request for conversion to digital from analog ch. 6 dismissed.
Santa Barbara	17	KSBB-CD	Granted permission to operate in ATSC 3.0. Will simulcast in ATSC 1.0 on KEYT-TV.
South Eureka	21	K50MR	STA 328 watts/130m dismissed.
<b>Vallejo</b>	<b>34</b>	<b>KFSF-DT</b>	<b>Application for new auxiliary transmitter, 250kw/419m. Granted.</b>
Weed	24	K24NL	Returned to the air Aug. 20 <sup>th</sup> .
Weed	31	K31PF	Returned to the air Aug. 20 <sup>th</sup> .
<b>Campeche</b>			
Chamotón	20	XHCTCA-1	New shadow, 6kw/24m, 19-21-20/90-43-20.
<b>CDMX</b>			
Ixtapaluca	24	XHIMT-4	506 watts/161m, 19-20-26/98-53-47.
<b>México</b>	<b>24</b>	<b>XHIMT</b>	<b>New aux, 237.67kw/-3m, 19-16-11/99-13-59.</b>
<b>México</b>	<b>26</b>	<b>XHTVM</b>	<b>Correct coordinates to 19-32-03/99-07-46.</b>
<b>México</b>	<b>28</b>	<b>XHFAMX</b>	<b>New station, 240.276kw/436m, 19-27-06/99-22-01</b>
Topilejo	24	XHIMT-5	New "shadow", 60 watts/-132m, 19-11-43/99-08-27.
Topilejo	25	XHDF-3	New "shadow", 60 watts/-132m, 19-11-43/99-08-27.
<b>Chiapas</b>			
San Cristóbal de las Casas	20	XHTTG-8	From XHSBB 48; to be shadow of XHTTG, 2kw/692m.
San Cristóbal de las Casas	27	XHCTCR-1	New shadow, 10kw/632m, 16-44-18/92-41-15.
Tapachula	20	XHTTG-9	From XHTAA.
<b>Chihuahua</b>			
<b>Cd. Juárez</b>	<b>28</b>	<b>XHMTCH</b>	<b>45kw/150m, 31-42-16/106-29-55.</b>
<b>Colima</b>			
<b>Etapilla</b>	<b>16</b>	<b>XHBZ-4</b>	<b>Switches to relaying XHTEC-TDT.</b>
<b>Las Tunas</b>	<b>16</b>	<b>XHBZ-6</b>	<b>Switches to relaying XHTEC-TDT.</b>
<b>Tepames</b>	<b>16</b>	<b>XHBZ-7</b>	<b>Switches to relaying XHTEC-TDT.</b>
<b>Tinajas</b>	<b>16</b>	<b>XHBZ-5</b>	<b>Switches to relaying XHTEC-TDT.</b>
<b>Colorado</b>			
Carbondale	22	K22OI	From K41LA; granted.
Carbondale	24	K40IO	From 40.

<b>Location</b>	<b>RF Ch</b>	<b>Callsign</b>	<b>Notes</b>
Denver	31	KTVD	Moved from 19, 960kw/374m.
Denver	36	KDVR	From 32.
Lake George	39	K39CD	License canceled Aug. 21 <sup>st</sup> .
Lyons	16	KBRO-LD	Power reduced to 70 watts/-10m, 40-00-43/105-11-18.
Pagosa Springs	19	K19LC	From K48HA, 210 watts/397m, 37-11-33/107-05-58; granted.
Redstone	16	K16NS	From K48LW, 12 watts/-104m; granted.
Redstone	21	K44JQ	From 44.
Redstone	32	K45HL	From 45.
Snowmass Village	33	K33QL	From K43NL, 100 watts/-211m; granted.
<b>Connecticut</b>			
Hartford	6	WHCT-LP	From 38 dismissed.
Hartford	22	WUTH-CD	Moved from 47.
Hartford	22	WUVN	See sharing host WUTH-CD.
Hartford	30	WEDH	From 45, 497kw/506m; granted & moved.
Hartford	31	WRDM-CD	See sharing host WVIT New Britain.
Hartford	32	WRNT-LD	Moved from 48, 15kw/182m.
New Britain	31	WVIT	Moved from 35, 374kw/329m.
New Haven	30	WEDY	See sharing host WEDH Hartford.
New London	28	WHPX-TV	Moved from 26, 500kw/505m, 41-42-13/72-49-55.
<b>District of Columbia</b>			
Washington	34	WRC-TV	Moved from 48, 1000kw/244m. Application for new auxiliary, 285kw/160m.
Washington	34	WZDC-CD	See sharing host WRC-TV.
<b>Durango</b>			
Cuencamé	30	XHRCDU	Concession surrendered.
Durango	29	XHMTDU	75kw/54m, 24-01-15/104-41-00
<b>Florida</b>			
Alachua	32	W32EY	From W40CQ; granted.
Deltona	18	WESH-DRT	Requests power increase to 15kw/168m; granted.
Fort Pierce	20	WTVX	Moved from 34.
Live Oak	48	WFXU	Requests STA 38kw/93m, 30-33-01/83-00-47; granted.
Okeechobee	26	W26FI	From W46FA, 15kw/88m, 27-27-15/81-24-22; granted.
Panama City	16	W16CX	Returned to the air July 29 <sup>th</sup> .
Panama City	19	WIDM-LD	Requests STA 600 watts/9m; interim reduced-power installation pending system-wide upgrade. Granted. Returned to the air July 29 <sup>th</sup> .
Panama City	25	W16CX	Requests STA for this channel (ex.-ch. 16) 600 watts/2m, 30-21-09/85-23-28; interim reduced-power installation pending system-wide upgrade. Granted.
Stuart	34	WHDT	From 42, 943.1kw/440m.
Tallahassee	14	W14EU	From W48DV, 15kw/168m; granted.
Tallahassee	34	W34FQ	From W44DP, 12.7kw/81m; granted.
Vero Beach	30	W45DT	From 45, 15kw/43m, 27-36-12/80-23-03.
Wabasso	6	W06DF	From 45, 3kw/20m, 27-36-12/80-23-03 canceled Aug. 21 <sup>st</sup> ; see Vero Beach.
<b>Georgia</b>			
Albany	14	WCEG-LD	From 22, 15kw/95m; granted.
Albany	32	W32FO	From W20DO, 15kw/11m; granted.
Atlanta	29	WYGA-CD	From 16, 15kw/293m; granted.
Atlanta	32	WSB-TV	Granted STA 305kw/328m, 33-48-26/84-20-22; interim post-



<i>Location</i>	<i>RF Ch</i>	<i>Callsign</i>	<i>Notes</i>
<b>Atlanta</b>	<b>34</b>	<b>WATC-DT</b>	<b>repack facility at alternate site pending “stripping” and reinforcement of existing tower. Requests STA 288kw/309m; post-repack antenna can’t meet specs. It’ll be used at reduced power until a corrected antenna can be supplied.</b>
Columbus	20	W41EL	From 41, 1.7kw/107m dismissed. Reason not given.
Hinesville	36	WGCB-LD	Converted to digital from analog W41CR, 15kw/126m, 32-03-55/81-21-05.
Rome	14	WSB-DRT	Calls changed from WSCG-LD, and before that W36EZ. Application for new station, 1kw/223m, 34-14-02/85-13-50 dismissed.
<b>Rome</b>	<b>31</b>	<b>WPXA-TV</b>	<b>Requests STA 65kw/573m; interim pre-repack facility pending installation of post-repack antenna. Granted.</b>
Savannah	33	WDID-LD	From 26, 10kw/119m, 32-05-47/81-19-10; granted.
Swainsboro	18	WUET-LD	Requests site change, 15kw/126m, 32-05-47/81-19-10; granted. Site is near Savannah and same as WDID-LD above.
<b>Guanajuato</b>			
Pénjamo	33	XHMAS-3	170 watts/-45m, 20-25-20/101-43-21
<b>León</b>	<b>31</b>	<b>XHLGG-4</b>	<b>70kw/180m, 21-09-39/101-42-57</b>
<b>Hidalgo</b>			
Pachuquilla	36	XHPHG-1	Permit granted for new station, 191 watts/-25m, 20-04-57/98-42-31.
Tepeji del Río	25	XHDF-3	Granted site change 4kw/-61m, 19-54-23/99-20-54.
<b>Tula de Allende</b>	<b>16</b>	<b>XHCTIX-1</b>	<b>New shadow, 35kw/93m, 20-01-03/99-17-27.</b>
<b>Idaho</b>			
Coolin	32	K40DJ	Moved from 40, 100 watts/-112m.
Coolin	33	K51EF	Moved from 51, 100 watts/-122m.
Garden Valley	20	K20NZ	Moved from K49EB.
<i>Lewiston</i>	45	<i>K45FZ</i>	<i>License canceled Aug. 21<sup>st</sup>.</i>
Priest Lake	36	K42GT	From 42, 56.5 watts/51m.
Rexburg	20	K20MQ	Moved from K43JD, 170 watts/248m, 43-47-22/111-58-08.
<b>Illinois</b>			
<i>Champaign</i>	39	<i>W39BH</i>	<i>OFF Aug. 9<sup>th</sup> pending construction of ch. 27 post-repack digital facility.</i>
Chicago	7	WCHU-LD	From 33 dismissed. Would interfere with a WLS DRT (which, frankly, no longer appears to exist); WMVS ch. 8 Milwaukee; and WOOD-TV ch. 7 Grand Rapids.
<b>Chicago</b>	<b>23</b>	<b>WCIU-TV</b>	<b>Granted new aux transmitter 21kw/510m; From 27, 1000kw/473m; granted. Requests power increase to 130kw for aux transmitter; granted.</b>
Chicago	26	WPVN-CD	Requests digital conversion from analog ch. 20, 15kw/419m, 41-53-56/87-37-23; granted.
<b>Jacksonville</b>	<b>18</b>	<b>WSEC</b>	<b>From 15, 93.5kw/292m; granted.</b>
Jacksonville	24	W24EV	From W38FQ, 12.7kw/64m; granted.
<b>Indiana</b>			
<b>Bloomington</b>	<b>27</b>	<b>WCLJ-TV</b>	<b>See sharing host WIPX-TV.</b>
<b>Bloomington</b>	<b>27</b>	<b>WIPX-TV</b>	<b>Requests power increase to 175kw/311m.</b>
Evansville	25	W25FO	From W39DS, 1kw/82m, 37-50-48/87-00-44; granted.
Evansville	30	WELW-LD	From 14, 15kw/120m; granted.
Fort Wayne	2	W02CX	From W51EQ, 3kw/123m; granted.

<b>Location</b>	<b>RF Ch</b>	<b>Callsign</b>	<b>Notes</b>
Fort Wayne	16	WFWC-CD	From 45, 15kw/116m.
Fort Wayne	28	WDGM-LD	From 20; granted.
<b>Indianapolis</b>	<b>2</b>	<b>NEW-STA</b>	<b>Requests experimental STA 10,000,000,000,000 kW/250m, 86-13-12/86-15-19. Site is on an ice floe (until it melts from the waste heat) roughly midway between Alert, Nunavut and the North Pole. (which places this site under Canadian jurisdiction)</b>
<b>Indianapolis</b>	<b>45</b>	<b>WXIN</b>	<b>Almost immediately withdrawn. Operating at approximately half power since Aug. 16<sup>th</sup> due to transmitter &amp; CPU board failure.</b>
<b>Iowa</b>			
<b>Davenport</b>	<b>36</b>	<b>KWQC-TV</b>	<b>Requests STA 23kw/304m, 41-32-49/90-28-38; interim pre-repack antenna at alternate location pending "stripping" of existing tower &amp; installation of post-repack antenna.</b>
<b>Des Moines</b>	<b>19</b>	<b>KDMI</b>	<b>Requests STA 335.6kw/610m; less than 80% power since July 7<sup>th</sup> due to transmission line burnout. Granted.</b>
<b>Jalisco</b>			
Atotonilco	31	XHSFJ-9	1.08kw/272m, 20-32-52/102-28-21
Lagos de Moreno	30	XHJCM-2	Site change granted 1.81kw/79m, 21-21-24/101-57-18
<b>San Juan de los Lagos</b>	<b>24</b>	<b>XHGA-2</b>	<b>Transferred to XHBD-TDT.</b>
<b>Kansas</b>			
<b>Colby</b>	<b>17</b>	<b>KLBY</b>	<b>Requests STA 38.4kw/201m; reduced-power temporary transmitter pending repairs to regular unit. Granted.</b>
<b>Pittsburg</b>	<b>13</b>	<b>KFJX</b>	<b>Granted 45.1kw/337m.</b>
Topeka	17	KAJF-LD	Requests STA 15kw/98m. Granted.
Topeka	28	KCMN-LD	Requests STA 15kw/98m. Granted.
Topeka	35	KQML-LD	Requests STA 10kw/98m. Granted.
<b>Kentucky</b>			
Bowling Green	14	W14DG	Returned to the air Aug. 8 <sup>th</sup> . But off again on the 12 <sup>th</sup> , "technical issues."
Corbin	29	WVTN-LD	Moved from 48.
<b>Louisville</b>	<b>47</b>	<b>WAVE</b>	<b>Requests STA 400kw/330m; interim pre-repack antenna pending installation of post-repack unit. Granted.</b>
<b>Newport</b>	<b>29</b>	<b>WXIX-TV</b>	<b>Requests STA 83kw/252m; interim pre-repack antenna pending installation of post-repack unit. Granted.</b>
<b>Louisiana</b>			
<i>Lake Charles</i>	<i>6</i>	<i>K22GT</i>	<i>From 22 dismissed. Didn't show it was actually displaced.</i>
<b>New Orleans</b>	<b>19</b>	<b>WDSU</b>	<b>From 43, 925kw/288m; granted.</b>
<b>Maine</b>			
<b>Waterville</b>	<b>17</b>	<b>WPFO</b>	<b>Moved from 23, 1000kw/479m, 43-55-29/70-29-27.</b>
<b>Maryland</b>			
<b>Annapolis</b>	<b>21</b>	<b>WMPT</b>	<b>Requests STA 377kw/284m; interim post-repack facility pending repairs to post-repack transmitter. Granted.</b>
<b>Hagerstown</b>	<b>23</b>	<b>WDVM-TV</b>	<b>Requests STA 18.4kw/342m; interim antenna pending installation of permanent antenna. Granted.</b>

<b>Location</b>	<b>RF Ch</b>	<b>Callsign</b>	<b>Notes</b>
<b>Oakland</b> Salisbury	<b>26</b> 28	<b>WGPT</b> WGDV-LD	<b>Moved from 26, 800kw/377m.</b> <b>From 36, 200kw/283m; granted.</b> Requests STA 15kw/145m; interim post-repack antenna at lower elevation for RF safety for workers on nearby WMDT antenna. Granted.
<b>Massachusetts</b>			
Attleboro	36	WYCN-LD	See Providence, R.I. for call change on LPTV located near Attleboro.
<b>Boston</b>	<b>5</b>	<b>WFXZ-CD</b>	<b>See sharing host WGBH-TV.</b>
<b>Boston</b>	<b>5</b>	<b>WGBH-TV</b>	<b>Moved from 19, 6.7kw/363m, 42-18-11/71-13-05.</b>
<b>Boston</b>	<b>20</b>	<b>WBZ-TV</b>	<b>Moved from 30, 922kw/350m (aux)</b>
<b>Boston</b>	<b>32</b>	<b>WGBX-TV</b>	<b>Permit granted for new post-repack aux, 922kw/350m, 42-18-11/71-13-05.</b>
<b>Boston</b>	<b>32</b>	<b>WBTS-CD</b>	<b>See Nashua, N.H. for sharing guest on WGBX-TV.</b>
<b>Boston</b>	<b>33</b>	<b>WCVB-TV</b>	<b>Requests STA 350kw/333m, 42-18-37/71-14-12; emergency antenna pending repairs to feedline for auxiliary antenna. Main antenna is being replaced for the repack.</b>
<b>Boston</b>	<b>34</b>	<b>WFXT</b>	<b>Moved from 31, 1000kw/350m.</b> <b>Application for aux, 390kw/336m.</b>
Springfield	20	WSHM-LD	Moved from 21.
Springfield	28	WFXQ-CD	OFF Aug. 2 <sup>nd</sup> , rigging issues prevented installation of post-repack antenna on time.
Springfield	43	WHTX-LD	OFF Aug. 9 <sup>th</sup> , unable to complete move to post-repack ch. 24 on time.
<b>Worcester</b>	<b>19</b>	<b>WUTF-TV</b>	<b>Granted STA 50kw/334m; interim post-repack antenna pending installation of permanent antenna.</b>
<b>Edo. México</b>			
Coacalco	25	XHDF-3	Site change granted 820 watts/56m, 19-41-46/99-08-09
Ixtapaluca	25	XHDF-4	Site change granted 515 watts/139m, 19-20-26/98-53-47
<b>Luvianos</b>	<b>36</b>	<b>XHTOK-4</b>	<b>Transferred to XEX-TDT.</b>
<b>Michigan</b>			
<b>Cadillac</b>	<b>17</b>	<b>WCMV</b>	<b>Requests STA 138.6kw/393m; to operate interim transmitter at 41% of authorized power to make space for post-repack transmitter.</b>
<b>Cadillac</b>	<b>32</b>	<b>WFQX-TV</b>	<b>Returned to the air Aug. 7<sup>th</sup>.</b>
<b>Kalamazoo</b>	<b>22</b>	<b>WLLA</b>	<b>Application for new aux, 384kw/255m. Granted.</b>
<b>Midland</b>	<b>19</b>	<b>WFKB-LD</b>	<b>Moved from 38, 15kw/101m, 43-23-33/83-55-27.</b>
<b>Michoacan</b>			
Ario de Rosales	24	XHCBM-7	New "shadow", 210 watts/93m, 19-12-25/101-42-27.
Lázaro Cárdenas	7	XHLAZ-	New station, 10.85kw/22m, 17-57-39/102-12-38.
Los Reyes de Salgado	23	XHRAM-4	New "shadow", 3.13kw/-186m, 19-35-05/102-27-58
Los Reyes de Salgado	24	XHCBM-6	New "shadow", 3.12kw/-186m, 19-35-05/102-27-58
Morelia	9	XHMOM	NS, details unknown.
Ocampo	21	XHCHM	Granted site change to 19-35-02/100-20-21.
Paracho	23	XHRAM-3	New "shadow", 890 watts/-144m, 19-38-10/102-03-17
Paracho	24	XHCBM-5	New "shadow", 890 watts/-144m, 19-38-10/102-03-17
<b>Mississippi</b>			
Clarksdale	30	WQEK-LD	STA 7kw/98m dismissed.
<b>Missouri</b>			

<b>Location</b>	<b>RF Ch</b>	<b>Callsign</b>	<b>Notes</b>
Columbia	32	KQFX-LD	OFF Aug. 1 <sup>st</sup> pending tower replacement. 11.1 Fox will be carried on KMIZ during the KQFX silent period.
Joplin	24	KRLJ-LD	New to the air, 15kw/93m, 37-11-30/94-41-19. Virtual channel 45, for originally-granted pre-repack physical channel. Carrying: 45.1 Azteca America 45.2 ONTV4U 45.3 some kind of infomercials
<b>Kansas City</b>	<b>30</b>	<b>KPXE-TV</b>	<b>Granted STA 550kw/339m.</b>
St. Louis	38	K38HD	Returned to the air July 31 <sup>st</sup> .
<b>Montana</b>			
Tampico	34	K34NA	New LPTV on the air, 318 watts/132m, 48-20-29/107-09-00.
<b>Nebraska</b>			
Lincoln	24	KIJK-LD	Requests power increase to 15kw/56m, 40-49-23/96-43-13. Granted.
<b>Omaha</b>	<b>26</b>	<b>KPTM</b>	<b>Moved from 43, 1000kw/475m.</b>
<b>New Hampshire</b>			
Nashua	32	WBTS-CD	<b>Call changed from WYCN-CD. Station is a sharing guest on WGBX-TV Boston and transmits from the Boston tower farm west of the city.</b>
<b>New Jersey</b>			
Atlantic City	10	WSJT-LD	Site changed to 39-43-41/74-50-38; 3kw/236m.
Edison	22	WDVB-CD	Requests STA 7kw/300m; interim post-repack facility pending completion of permanent system. Granted. "Since no change in the overall height or location of the Empire State Building is proposed herein, the Federal Aviation Administration has not been notified of this application."
Glassboro	26	WQAV-CD	Moved from 50.
Hammonton	38	WPSJ-CD	OFF Aug. 2 <sup>nd</sup> pending construction of permanent facility.
Jersey City	22	WTBY-TV	See sharing host WDVB-CD Edison. (spelling of principal community as in the source)
<b>Linden</b>	<b>35</b>	<b>WNJU</b>	<b>Moved from 36, 575kw/496m, 40-42-47/74-00-47; Requests STA 408.8kw/496m; to operate at reduced power during work on the antenna combiner system. Granted.</b>
<b>Mount Laurel</b>	<b>28</b>	<b>WWSI</b>	<b>See sharing host WCAU Philadelphia.</b>
Princeton	22	WMCN-TV	See sharing host WPHY-CD Trenton.
Sussex	23	W23EX	Moved from W35DK, 3.87kw/191m.
Trenton	22	WPHY-CD	Moved from 50, 15kw/353m, 40-02-30/75-14-10. (Roxborough antenna farm, Philadelphia)
<b>New Mexico</b>			
Tohatchi	34	K42IK	Moved from 42.
<b>New York</b>			
<b>Albany</b>	<b>24</b>	<b>WTEN</b>	<b>Requests STA 47kw/341m; interim post-repack antenna pending installation of permanent antenna. Granted.</b>
<b>Amsterdam</b>	<b>19</b>	<b>WYPX-TV</b>	<b>Moved from 50, 600kw/294m, 42-38-13/74-00-03.</b>
<b>Batavia</b>	<b>24</b>	<b>WPXJ-TV</b>	<b>Moved from 23, 500kw/374m, 42-46-58/78-27-27.</b>
<b>Buffalo</b>	<b>36</b>	<b>WIVB-TV</b>	<b>See sharing host WNLO.</b>
<b>Buffalo</b>	<b>36</b>	<b>WNLO</b>	<b>Granted STA 560kw/312m, 42-39-33/78-37-32; interim post-</b>

<i>Location</i>	<i>RF Ch</i>	<i>Callsign</i>	<i>Notes</i>
			<b>repack facility pending construction of permanent facility.</b>
Burlington	31	W31BP	<i>License cancelled.</i>
Corning	25	WSKA	<b>Moved from 30, 50kw/334m.</b>
Garden City	32	WLIW	<b>Granted new auxiliary, 205kw/110m, 40-47-19/73-27-07.</b>
Ithaca	13	WNYI	<b>Moved from 20, 28kw/260m, 42-48-05/76-26-13.</b> <b>Promptly took out STA for unspecified reduced power. Air conditioning system can't handle heat generated by new transmitter.</b>
Ithaca	33	WSKG-DRT	Permit granted for new station, 15kw/-66m, 42-25-47/76-29-48. <i>See text.</i>
Jamestown	5	WNYB	<b>Moved from 26, 4kw/463m.</b>
New York	27	WNYW	<b>Moved from 44, 92.8kw/496m, 40-42-47/74-00-47.</b>
New York	30	WNYN-LD	From 39, 7.37kw/207m, 41-00-36/74-35-37; to share on WNJJ-LD. Granted STA for this channel, 800 watts/224m, 40-46-02/73-57-40.
New York	35	WNBC	<b>See sharing host WNJU Linden, N.J..</b>
Newburgh	28	WEPT-CD	Returned to the air Aug. 1 <sup>st</sup> .
Oneida	32	WTKO-CD	Moved from ch. 36, 15kw/57m.
Port Jervis	22	W22EW	OFF July 2 <sup>nd</sup> .
Ridge	22	WCBS-DRT	Granted power reduction to 10.4kw/174m (WLNJ-TV 55 tower)
Riverhead	29	WLNY-TV	<b>Moved from 47, 1000kw/194m.</b>
Rochester	9	WHAM-TV	<b>Granted STA 30kw/119m; interim facility as contracted tower crew became unavailable.</b>
Rochester	20	WAWW-LP	<i>OFF Aug. 2<sup>nd</sup>, transmitter failure.</i>
Rochester	21	WROC-TV	<b>Moved from 45.</b>
Rochester	36	WHSB-LP	<i>OFF July 26<sup>th</sup>, transmitter failure.</i>
Schenectady	25	WMHT	<b>Granted STA 75.4kw/349m; interim post-repack antenna pending installation of permanent unit. Granted.</b>
Schenectady	25	WMHT	<b>Granted post-repack aux, 268kw/349m.</b>
Syracuse	14	WSYT	<b>Moved from 19, 540kw/415m.</b>
Syracuse	20	WCNY-TV	<b>Requests STA 125.4kw/410m; interim post-repack facility pending delivery of permanent antenna. Granted.</b>
Syracuse	24	WONO-CD	Granted digital conversion from analog ch. 11, 15kw/54m.
Syracuse	42	W42EB	OFF Aug. 1 <sup>st</sup> , T-Mobile.
Syracuse	49	WBLZ-LD	OFF Aug. 2 <sup>nd</sup> , T-Mobile. Cannot move to ch. 22 until WTVU-CD moves to ch. 25.
Watertown	26	WPBS-DT	<b>Requests STA 40kw/373m; doesn't have funding to build expanded post-repack facility. Granted.</b> <b>From 41, 98kw/373m; granted.</b>
<b>North Carolina</b>			
Andrews	20	W20EK	From W49DB, 15kw/608m; granted.
Asheville	36	WASV-LD	From 50; granted.
Charlotte	18	WCCB	<b>Requests STA 600kw/385m, 35-16-02/80-44-04; to use old ch. 18 analog antenna as interim post-repack digital antenna. Granted.</b>
Charlotte	27	WGTV-CD	From 28, 15kw/407m; granted. Requests STA for this channel, 1.3kw/407m; interim reduced-power post-repack facility pending delivery of permanent antenna & mask filter.
Cherokee	10	W10AL	OFF Aug. 2 <sup>nd</sup> , equipment failure.
Elizabeth City	18	W18BB	OFF July 23 <sup>rd</sup> , lightning damage. Returned to the air Aug. 17 <sup>th</sup> .
Goldsboro	8	WNCN	<b>Requests STA 40kw/555m; interim post-repack antenna pending construction of permanent facility.</b>
Greenville	36	WEPX-TV	<b>Requests STA 11kw/199m, 35-12-03/77-11-13; interim post-repack facility pending delivery of permanent antenna.</b>

<i>Location</i>	<i>RF Ch</i>	<i>Callsign</i>	<i>Notes</i>
Jacksonville	16	WPXU-TV	Requests STA 5kw/166m, 34-29-42/77-29-18; interim post-repack antenna pending construction of permanent facility.
Linville	17	WUNE-TV	Requests STA 58kw/546m; interim reduced-power pre-repack facility pending construction of post-repack facility. <b>Granted.</b>
Lumberton	30	WUNU	<b>Application for new aux, 380kw/196m; granted.</b>
Marion	22	W22FB	From W51EE, 15kw/178m; granted. Currently operating on ch. 27 under STA.
Sanford	46	WBFT-CD	OFF July 29 <sup>th</sup> . Apparently kicked off tower by landlord WDSG-LPFM 107.9.
Washington	34	WITN-TV	<b>Application for new aux, 800kw/407m; granted.</b>
Wilmington	21	WUNJ-TV	<b>Application for new aux, 614kw/202m; granted.</b>
Wilmington	29	WUNJ-TV	Requests STA 262kw/297m; interim pre-repack facility pending completion of permanent post-repack system.

### **Nuevo León**

China	17	XHFN-5	Site change granted 100 watts/11m, 25-43-07/99-15-15
China	19	XHWX-2	Site change granted 100 watts/11m, 25-43-07/99-15-15
Galeana	17	XHFN-6	Site change granted 80 watts/-99m, 24-49-36/100-05-07
Linares	17	XHFN-8	Site change granted 100 watts/10m, 24-51-59/99-33-18
Linares	19	XHWX-2	Site change granted 100 watts/10m, 24-51-59/99-33-18

### **Oaxaca**

Río Grande Tututepec	32	XHPNO-1	Transferred to XHPET
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### **Ohio**

Akron	18	WOIO-DRT	Moved from 24, 15kw/256m.
Akron	18	WUAB-DRT	See sharing host WOIO-DRT.
Akron	22	WVPX-TV	<b>Moved from 23, 950kw/290m, 41-03-20/81-35-37.</b>
Canton	22	WDLI-TV	<b>See sharing host WVPX-TV Akron.</b>
Cleveland	19	WKYC	Requests STA 900kw/216m; interim post-repack facility pending installation of permanent antenna. <b>Granted.</b>
Cleveland	35	WVIZ	Requests STA 150kw/222m; interim post-repack antenna due to delays in installation of permanent antenna. <b>Granted.</b>
Cleveland	36	WQHS-DT	<b>Moved from 34, 780kw/352m.</b>
Columbus	15	WQMC-LD	Calls changed from W23BZ.
Columbus	16	WOSU-TV	<b>From 38, 675kw/332m.</b>
Eastlake	34	W34FP	Moved from W38ET, 9.2kw/158m.
Lima	15	WOHL-CD	Moved from 35, 11.5kw/179m, 40-46-32/84-07-14.
Lima	16	WOHW-LD	Calls changed from W16DM.
Newcomerstown	26	WIVD-LD	From 22, 15kw/153m.
Portsmouth	17	WQCW	Requests STA 610kw/332m, 38-30-36/82-13-10; interim pre-repack antenna on alternate tower pending dismantlement of main site & replacement with facilities for post-repack channel. <b>Granted.</b>
Youngstown	19	WYFX-LD	OFF Aug. 2 <sup>nd</sup> "...due to consequences associated with Transition Phase 4."
Youngstown	20	WFMJ-TV	Requests power increase to 800kw. (aux)
Youngstown	31	WKBN-TV	Requests power increase; see sharing host WYTV.
Youngstown	31	WYTV	Requests power increase to 1000kw/437m, 41-03-23/80-38-43. <b>Modified to request 703kw. Granted.</b>
Youngstown	32	WYFX-LD	From 19, 15kw/389m; granted.

### **Oklahoma**

Oklahoma City	27	KFOR-TV	<b>Granted new aux, 55kw/465m, 35-33-37/97-29-08.</b>
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<i>Location</i>	<i>RF Ch</i>	<i>Callsign</i>	<i>Notes</i>
<b>Oregon</b>			
Newberg	26	KOPB-DRT	Moved from 32, 230 watts/342m. Had been off since June 28 <sup>th</sup> due to interference from KNMT.
<b>Pennsylvania</b>			
Allentown	24	WFMZ-DRT	Granted new Digital Replacement Translator, 6kw/309m, 40-33-52/75-26-24. Same site as pre-repack ch. 45 DRT but more powerful. Licensed as new DRT rather than modification to ch. 45.
Berwick	36	W36EY	Requests STA 7.5kw/228m; to operate at half power due to failed amplifier. Granted.
Chambersburg	34	W34FM	Granted STA 5kw/411m; reduced power pending delivery of equipment.
Erie	18	WXTM-LD	From 47; granted.
Erie	26	WFXP	<b>Granted STA 730kw/286m; interim reduced-power operation until permanent transmission line is installed.</b>
Erie	28	WJET-TV	<b>Granted STA 650kw/242m; interim post-repack antenna pending installation of permanent antenna.</b>
Greensburg	28	WPCB-TV	<b>Moved from 50, 530kw/278m.</b>
Harrisburg	21	WHLZ-LD	Moved from 16, 15kw/262m, 40-18-56/76-57-08; CL from Middleburg. Calls changed from W16CO.
Johnstown	35	WJAC-TV	<b>Requests STA 131.22kw/349m; interim post-repack antenna pending availability of tower crew to install permanent antenna. Granted.</b> <b>Moved from 34, 1000kw/382m.</b>
Philadelphia	28	WCAU	<b>Moved from 34, 745kw/400m.</b>
Philadelphia	31	WTFX-TV	<b>From 42, 1000kw/336m; granted.</b>
Philadelphia	33	WZPA-LD	OFF Aug. 1 <sup>st</sup> pending construction of permanent facility.
Philadelphia	35	WFPA-CD	Moved from 28, 15kw/377m.
Pittsburgh	23	WPXI	<b>Moved from 48, 500kw/306m, 40-27-48/80-00-16 (aux)</b>
Red Lion	14	WLZH-LD	Power increased to 15kw/213m, 39-54-18/76-34-57. Calls changed from W14DF.
Scranton	33	WQPX-TV	<b>Moved from 32, 700kw/377m.</b>
Towanda	25	W25AQ	OFF Aug. 2 <sup>nd</sup> ; unable to move to displacement ch. 20 on time due to delays in antenna delivery.
Willow Grove	22	WTVE	See sharing host WPHY-CD Trenton, N.J.
<b>Puerto Rico</b>			
Naranjito	18	WECN	<b>Granted STA 18kw/-31m, 18-22-08/66-11-01; interim site pending tower replacement.</b>
<b>Quintana Roo</b>			
Cozumel	30	XHCOQ	<b>Granted 165kw/66m, 20-28-19/86-58-24.</b>
<b>Rhode Island</b>			
Providence	7	WPRI-TV	<b>Moved from 13, 27kw/311m, 41-52-14/71-17-43.</b>
Providence	36	WYCN-LD	Call changed from WBTS-LD. Transmitter is in Massachusetts, between Attleboro & Brockton.
<b>San Luis Potosi</b>			
Real de Catorce	22	XHCDI-1	Granted site change to 23-41-27/100-53-21; 1.52kw/238m.
Real de Catorce	26	XHPMS-1	Granted site change to 23-41-27/100-53-21; 1.52kw/238m.
Rioverde	22	XHCLP-3	New shadow, 180 watts/-25m, 21-55-49/100-03-01
Rioverde	28	XHDD-3	New shadow, 180 watts/-25m, 21-55-49/100-03-01
<b>Sinaloa</b>			

<i>Location</i>	<i>RF Ch</i>	<i>Callsign</i>	<i>Notes</i>
<b>Culiacán</b>	<b>35</b>	<b>XHDO-1</b>	<b>Granted site change to 24-46-55/107-23-00; 52.85kw/125m.</b>
<b>Los Mochis</b>	<b>31</b>	<b>XHMIS</b>	<b>Granted power change to 77.37kw/73m, 25-48-27/108-58-10.</b>
<b>Sonora</b>			
Santa Cruz	24	XHNOA-1	Granted site change to 31-14-15/110-35-44; 510 watts/-99m.
<b>South Carolina</b>			
Beaufort	14	WSCG-LD	Calls changed from W32BJ.
Charleston	12	WHDC-LP	Requests digital conversion; granted, 1.9kw/155m. Has been OFF since June 23 <sup>rd</sup> .
<b>Columbia</b>	<b>22</b>	<b>WACH</b>	<b>From 48, 460kw/464m; granted &amp; moved.</b>
<b>Columbia</b>	<b>47</b>	<b>WZRB</b>	<b>Requests STA 34kw/177m; interim pre-repack facility pending installation of post-repack antenna. Granted.</b>
<b>Greenville</b>	<b>21</b>	<b>WHNS</b>	<b>Granted STA 92kw/493m; interim pre-repack antenna pending replacement of main antenna.</b>
<b>Sumter</b>	<b>28</b>	<b>WRJA-TV</b>	<b>Granted STA 46.9kw/107m; interim pre-repack antenna pending completion of post-repack facility.</b>
<b>South Dakota</b>			
Sioux Falls	20	KABY-LD	Returned to the air Aug. 14 <sup>th</sup> but off again three days later.
<b>Sioux Falls</b>	<b>36</b>	<b>KWSD</b>	<b>Returned to the air July 27<sup>th</sup>.</b>
<b>Tennessee</b>			
Chattanooga	25	WYHB-CD	From 44, 15kw/321m; granted.
<b>Chattanooga</b>	<b>35</b>	<b>WTCI</b>	<b>Requests STA 32kw/328m; interim post-repack facility pending completion of new tower for permanent facility. Granted.</b>
<i>Lebanon</i>	<i>11</i>	<i>W11BD</i>	<i>License canceled.</i>
<b>Murfreesboro</b>	<b>16</b>	<b>WHTN</b>	<b>Requests STA 24kw/174m; interim post-repack antenna.</b>
<b>Tazewell</b>	<b>36</b>	<b>WVLR</b>	<b>Requests STA 4.4kw/406m; interim post-repack facility pending installation of permanent post-repack antenna. Amended to 28kw/406m.</b>
<b>Texas</b>			
Austin	23	KXLK-CD	OFF June 21 <sup>st</sup> , tower requires extensive rework or replacement. Programming will be simulcast on KAKW-DT Killeen.
Beaumont	21	K21OL	From K16JC, 10kw/101m, 30-06-36/94-01-42; granted.
Brownsville	35	KNWS-LP	From 64, 3kw/92m, 26-09-02/97-30-59 dismissed; Mexican objection, interference to ch. 35 Reynosa. Station is operating on ch. 27 under STA.
Dallas	5	KPFW-LD	From 18, 3kw/72m, 32-44-20/97-05-30; granted.
Dallas	28	KLEG-CD	Moved from 44, 10.90kw/263m.
De Soto	7	K07AAD	Granted 1.4kw/112m, 32-44-20/97-05-30.
<b>Denton</b>	<b>29</b>	<b>KDTN</b>	<b>Moved from 43, 415kw/494m, 32-35-22/96-58-13.</b>
Donna	25	KTLM-DRT	From 43, 15kw/69m; granted.
Fredericksburg	44	KHPF-CD	OFF June 21 <sup>st</sup> , rigging issues prevented installation of post-repack antenna. Programming will be simulcast on KBVO and five LPTVs.
<b>Greenville</b>	<b>23</b>	<b>KTXD-TV</b>	<b>Moved from 46, 1000kw/494m, 32-35-22/96-58-13.</b>
Groveton	2	KLNK-LD	Requests power reduction to 3kw/57m, 30-36-46/95-02-29; granted.
<b>Harlingen</b>	<b>16</b>	<b>KMBH</b>	<b>From 38, 1000kw/286m, 26-05-19/98-03-45.</b>
<i>Kingsville</i>	<i>32</i>	<i>K38EB</i>	<i>From 38 dismissed. License cancelled.</i>
<b>Longview</b>	<b>28</b>	<b>KCEB</b>	<b>OFF July 26<sup>th</sup> supposedly pending construction of new facility by sharing host KPKN-LD.</b> <b>My information is KPKN is <i>not</i> the sharing host for KCEB –</b>



<b>Location</b>	<b>RF Ch</b>	<b>Callsign</b>	<b>Notes</b>
			<b>KTBS-TV Shreveport is.</b>
Midland	17	K52JQ	Digital conversion from analog ch. 52, 15kw/107m, 32-05-08/102-17-12 dismissed.
Midland	32	KFAW-LD	Granted power increase to 15kw/139m, 32-02-53/102-17-46.
Port Arthur	26	KULC-LD	From 46; granted.
<b>Utah</b>			
Boulder	35	K35NL	Moved from K25KX, 10 watts/6m.
Boulder	36	K36OO	Moved from K17JV, 10 watts/6m. That's K36-oh-oh.
Garfield	15	K15KS	Moved from K39FT, 155 watts/753m.
Garfield	16	K16LZ	Moved from K51AH, 155 watts/753m.
Garfield	17	K17MT	Moved from K49AG, 155 watts/768m.
Garfield	18	K18MH	Moved from K36KJ, 155 watts/753m.
Garfield	19	K19LG	Moved from K43DY, 155 watts/762m.
Garfield	20	K45BY	Moved from 45, 155 watts/768m.
Garfield	21	K21MX	Moved from K47AB, 155 watts/768m.
Garfield	22	K41EB	Moved from 41, 155 watts/768m.
Garfield Co.	31	K16EQ	Moved from 16, 88 watts/978m.
Garfield Co.	32	K32ML	Moved from K18FT, 88 watts/978m.
Garfield Co.	33	K33OJ	Moved from K20GE, 88 watts/978m.
Garfield Co.	34	K22FT	Moved from 22, 88 watts/978m.
Garfield Co.	35	K24FD	Moved from 24, 88 watts/978m.
Garfield Co.	36	K36OE	Moved from K26GD, 88 watts/978m. See text.
<b>Veracruz</b>			
Misantla	33	XHCPE-9	New "shadow", 302 watts/-168m, 19-55-35/96-51-16.
Pánuco	29	XHWT-1	New "shadow", 5.08kw/14m, 22-01-51/98-10-54.
Veracruz	29	XHTMBR-	New station, 10kw/56m, 19-10-35/96-08-14.
<b>Virginia</b>			
<b>Charlottesville</b>	<b>2</b>	<b>WVIR-TV</b>	<b>Requests to operate simultaneously on channels 2 and existing 32 from August 3<sup>rd</sup> through September 6<sup>th</sup>. Granted.</b>
Charlottesville	35	WAHU-CD	Requests STA 15kw/319m, 37-59-04/78-28-51; interim post-repack facility on adjacent tower pending availability of crew to move antenna to permanent tower. Granted.
<b>Danville</b>	<b>30</b>	<b>WZBJ</b>	<b>See sharing host WDBJ Roanoke.</b>
Newport News	39	WJHJ-LP	Requests STA 75kw/116m, to operate at half power due to equipment failure. Not ready to convert to digital on ch. 34 for financial reasons – former 70% stockholder is in prison for mail fraud & similar offenses.
Portsmouth	14	W14DC	Returned to the air July 27 <sup>th</sup> .
Portsmouth	17	WKTD-CD	Operating at 35% power since July 30 <sup>th</sup> due to transmitter failure.
<b>Roanoke</b>	<b>30</b>	<b>WDBJ</b>	<b>Granted STA 100kw/583m; interim post-repack facility pending completion of permanent tower &amp; antenna.</b>
<b>Roanoke</b>	<b>36</b>	<b>WFXR</b>	<b>From 17, 944kw/607m; granted.</b>
Woodstock	24	WDCO-CD	Granted power change to 15kw/151m, 38-56-24/77-04-53.
Woodstock	26	WAZT-CD	Requests power change to 15kw/323m, 39-08-17/77-49-58.
<b>Washington</b>			
<b>Bellingham</b>	<b>35</b>	<b>KVOS-TV</b>	<b>Requests STA 40kw/781m; interim pre-repack antenna pending installation of post-repack unit. Granted.</b>
Pasco	20	K20KG	Returned to the air Aug. 20 <sup>th</sup> .
Puyallup	18	K49IX	Moved from 49, 4.4kw/15m.
<b>Seattle</b>	<b>39</b>	<b>KIRO-TV</b>	<b>Requests STA 490kw/219m; interim pre-repack facility.</b>

<b>Location</b>	<b>RF Ch</b>	<b>Callsign</b>	<b>Notes</b>
Spokane	17	KWSU-DRT	<b>Granted.</b> STA request 600 watts/486m, 47-34-34/117-18-02 dismissed. Moved to ch. 33 instead.
<b>West Virginia</b>			
Huntington	23	WSAZ-TV	<b>Requests STA 576kw/332m; interim pre-repack antenna pending installation of permanent antenna. Granted.</b>
Parkersburg	26	WIYE-LD	Moved from 47.
<b>Wisconsin</b>			
Chippewa Falls	21	WEUX	<b>Moved from 49, 600kw/223m.</b>
Janesville	32	WIFS	<b>Application for new aux, 200kw/408m; granted.</b>
La Crosse	30	WEAU-DRT	Granted new station, 6kw/283m, 43-48-18/91-22-05. See text.
Madison	11	WISC-TV	<b>Granted STA 10.2kw/415m; interim post-repack facility pending installation of post-repack antennas for WISC-TV &amp; WMSN-TV.</b>
Milwaukee	34	WISN-TV	<b>Requests STA 990kw/264m, 43-06-42/77-55-42; interim pre-transition facility pending completion of post-transition system. Granted.</b>
Milwaukee	46	WDJT-TV	<b>Application for pre-repack aux, 122.5kw/310m. Also requests STA 107.5kw/310m; interim pre-repack facility pending completion of post-repack system. Granted.</b>
<b>Wyoming</b>			
Casper	18	K18JQ	Returned to the air July 12 <sup>th</sup> . But off again on Aug. 8 <sup>th</sup> , equipment issues.
Casper	36	KGWC-LD	Moved from 41, 15kw/553m, 42-44-26/106-21-36.
Gillette	22	K22AD	Returned to the air July 26 <sup>th</sup> .
Sheridan	29	KSWY-LP	OFF Aug. 10 <sup>th</sup> , technical issues.
<b>Yucatan</b>			
Chankom	23	XHKYU-2	New "shadow", 370 watts/22m, 20-34-06/88-30-45
Chankom	24	XHVAD-3	New "shadow", 370 watts/22m, 20-34-06/88-30-45

Thanks to Raymie Humbert and Jim Thomas for information in this month's column.

WEAU in Wisconsin and WSKG in New York showed interference would result in some pre-repack viewers not receiving their post-repack facilities. The repack made specific provisions for Digital Replacement Translators in these cases.

Garfield, Utah and Garfield County, Utah are two different places. They're (very) roughly 80km apart.

Jim provided some additional documents from the Costa Rican and Panamanian governments regarding digital TV in their countries. These lists are not complete – each involves licenses issued to one of the several broadcasters in the country.

#### **COSTA RICA:**

ISDB-T system. This is a joint Brazil/Japan design, used in most of South America.

Modulation parameters: 64QAM, FEC  $\frac{3}{4}$ , guard interval  $\frac{1}{4}$ .

Data rate is 16.430Mbps. (USA ATSC 1.0 is 19.39Mbps)

Physical channel 18 at all sites.

Virtual channels:  
7.1 Teletica HD  
7.2 Teletica Radio  
33.1 Xpertv HD

Sites:

Province	Site	Coordinates	ERP	HAAT
Alajuela	Palmira	10-12-19N/84-23-06W	912 watts	764m
Cartago	Volcán Irazú	09-58-16N/83-51-33W	52.293kw	1586m
Guanacaste	La Cruz	11-04-45N/85-37-59W	194 watts	109m
Guanacaste	Vista al Mar	10-07-11N/85-37-40W	3.09kw	705m
Limón	Cerro Garrón	09-59-55N/83-02-22W	50.699kw	75m
Limón	Siquirres	10-06-21N/83-30-08W	115 watts	-127m
Puntarenas	Cerro Adams	08-39-06N/83-09-57W	15.488kw	515m
Puntarenas	Cerro Chiqueros	09-41-05N/84-39-36W	853 watts	272m
Puntarenas	Santa Elena	10-19-13N/84-47-39W	28.249kw	839m
San José	Buena Vista	09-33-35N/83-45-12W	58.884kw	1208m
San José	Rancho Redondo	09-57-30N/83-57-10W	19.953kw	382m
San José	Tarbaca	09-48-47N/84-06-40W	912 watts	403m

**PANAMA:**

DVB-T system. This is the system used in most of Europe.

Modulation parameters: 16QAM, FEC 7/8, guard interval 1/16, 8K  
 Data rate is 15.369Mbps. (USA ATSC 1.0 is 19.39Mbps)  
 MPEG-4 video & ACC (AAC?) audio

Physical channels 42, 43, and 44 at all sites.

Video channels: Telemetro HD  
 RPC HD  
 Oye SD  
 Radio channels: Telemetro Radio  
 RPC Radio  
 Caliente

Sites:

Province	Site	Coordinates	ERP	HAAT	Azimuth(s)
Chiriquí	Volcán Barú	08-48-24N/82-32-25W	91.563kw	1719m	0° & 100°
Coclé	El Valle	08-35-09N/80-05-57W	8.068kw 129.093kw	386m	141° 231°
Colón	Cerro Santa Rita	09-19-41N/79-46-51W	77.071kw	203m	340°
Darién	Filo del Tallo	08-20-00N/77-52-51W	1.661kw 26.579kw 6.645kw	10m	40° 130° 220° & 310°
Los Santos	Cerro Canajagua	07-38-53N/80-25-06W	50.098kw	538m	90°
Panamá	Agua Fria	08-53-06N/78-12-25W	1.661kw	10m	30°

			26.579kw		122° & 300°
Panamá	Buenos Aires	09-14-02N/78-49-41W	45.781kw	76m	127° & 255°
Panamá	Cerro Cinco	09-05-17N/79-33-10W	164.049kw	348m	140°
Panamá West	Cerro Campana	08-39-49N/79-05-38W	18.781kw	561m	40° & 130°
Veraguas	Cerro Bijao	08-04-17N/80-54-32W	39.654kw	118m	350°
Veraguas	Cerro Calidonia	07-56-03N/81-24-14W	14.949kw	377m	66°, 186°, 306°

Some sites are already operating on channel 42.

It is not entirely clear how the six channels of programming are spread among the three physical channels. On the one hand, 15.369Mbps is only marginally adequate to provide two HD channels and one SD in ATSC 1.0. On the other hand, the MPEG-4 compression used is more efficient. All that said, I suspect the three video channels are spread among the three physical channels.

The Panamanian government expects total digital coverage exceeds analog.

The Chiriquí site is subject to coordination with Costa Rica.



# FM NEWS - SEPTEMBER 2019



FM Call Letter and Programming Changes  
 Editor: Bill Hale fmnews@wtfda.org



Visit the WTFDA Database:  
[db.wtfda.org](http://db.wtfda.org) to stay up-to-date



- AL Birmingham 94.1 W231DE  
Blues/Oldies: 'Party Blues & Oldies' // WJLD-1400
- AL Birmingham 107.3 W297BF  
Hot AC: 'Play 97.3' // WPYA 97.3
- AL Jasper 103.3 W277DM  
Blues/Oldies: 'Party Blues & Oldies' // WIXI-1360
- AL Marion 102.9 WFMA  
Contemporary Christian: 'Air1'; call change from WTID
- AL Mobile 104.5 KGDH-LP  
[Calls assigned to new station]
- AL Montgomery 105.3 W287CU  
[License cancelled; calls deleted]
- AL Northport 105.1 WALJ  
Urban: '105.1 The Block'
- AL Sumiton 97.7 W249EC  
[License cancelled; calls deleted (along with its primary station: WKDG-1540)]



- AK Juneau 100.7 KXLL  
Alternative Rock: 'Excellent Radio'
- AK Juneau 104.3 KTOO  
News/Talk: 'Live And Local'



- AZ Casa Grande 104.3 K282CG and
- AZ Oro Valley 101.7 K269FV  
Oldies: The Drive // KDR1-830

- AZ Parker 93.9 KRIT  
[Call change from KCCF-FM]
- AZ Tucson 88.5 KVCC  
Returns to the air with Religious Teaching: Christian Information Radio'
- AZ Wilcox 104.9 KWCX-FM  
[Is Silent; no access to studio or transmitter]
- AR Caldron 104.7 KQBK  
[Change in City-of-License from Bonneville]
- AR Little Rock 99.9 K260DT  
Regional Mexican: 'La Voz' // KTUV-1440
- AR Mena 91.1 K216FX  
Religious Teaching: 'Moody Radio' // WJSO 90.1



- BC Burton 90.5 VF2296  
[License cancelled; call deleted]
- BC Cranbrook 107.5 CF5M-FM  
Contemporary Hit Radio/Classic Hits : '2Day FM' [Includes CF5M-1 107.9 Fernie, CF5M-2 107.1 Sparwood and CF5M-3 107.7 Invermere]
- BC Kitwanga 92.9 VF2282  
[License cancelled; call deleted]
- BC McLeod Lake 96.1 VF2273  
[License cancelled; call deleted]



- CA Agua Dulce 97.5 KLQS-LP  
[Is Silent]
- CA Anderson 94.7 KEWB  
Contemporary Hit Radio: 'Power 94'
- CA Big Pine 93.3 KRHV  
Classic Rock: 'The Rock Of The Sierra 93.3'

CA Columbia 98.9 KCVR-FM  
Spanish Contemporary Hit Radio: 'Fuego  
103.5' [// KCVR-1570; '103.5' refers to  
KHHM Sacramento]

CA Chico 93.9 KPAY-FM  
News/Talk: 'KPAY News Talk 93.9'; [Call  
change from KFMF]

CA Coarsegold 94.5 KAWJ  
[Call change from KRPW]

CA Colusa 107.5 KQPT  
[Call change from KZSZ]

CA Concord 100.1 KTSP-LP  
[License cancelled; call deleted]

CA Fresno 95.7 KJFX  
Classic Rock: '95.7 The Fox'

CA Kingsburg 106.3 KVPW  
Regional Mexican: 'Radio Campesina'

CA Los Angeles 98.7 KYSR  
Alternative Rock: 'Alt 98.7' [// KSRV 103.1]

CA Malibu Beach 99.1 KBUU-LP-FM1  
[Calls assigned to new station; will be  
Variety: 'Radio Malibu' // KBUU-LP]

CA Mariposa 96.3 KUBB  
Country: 'KUBB Country 96.3'

CA Mammoth Lakes 106.5 KMMT  
Contemporary Hit Radio: 'KMMT New  
Music' [includes K288DL 105.5 Big Pine,  
etc. & K299AF 107.9 Bridgeport, etc., both  
CA]

CA Merced 107.3 K207BS  
News/Talk: 'Merced County's News-Talk  
1480 AM & 107.3 FM' // KYOS-1480

CA Ridgecrest 93.7 KZFX  
Classic Rock: 'Real Classic Rock' [includes  
K296DW 107.5 Lone Pine, etc.]

CA San Pedro 97.5 KUSP-LP  
[Calls assigned to new station]

CA Sacramento 103.5 KHHM  
Spanish Contemporary Hit Radio: 'Fuego  
103.5'; // KCVR-FM 98.9

CA Sacramento 107.5 KQPT-LP  
[Call change from KAKP-LP; move from  
106.1 due to interference problems]

CA Salida 95.5 K238AC  
[License cancelled; calls deleted]

CA San Diego 101.1 KVIB-LP  
[Is Silent]

CA San Francisco 102.1 KRBQ  
Oldies: 'The New Q 102.1'

CA San Francisco 104.5 KFOG  
Sports: 'The Sports Leader' // KNBR-680  
[includes KFOG-FM3 Pleasanton, etc.]

CA San Pedro 97.5 KUSP-LP  
[Calls assigned to new station]

CA Sebastopol 93.7 KJZY  
Contemporary Hit Radio: '93.7 The Beat'  
[includes KJZY-FM1 Rohnert Park]

CA Selma 88.5 KAWF  
[Call change from KQKL]

CA Tehachapi 103.1 KSRV  
Alternative Rock: 'Alt 98.7' [// KYSR 98.7]

CA Victorville 103.1 KVFG  
Regional Mexican: '103.1 La X'

CA Walnut 90.1 KSAK  
[Is Silent]

CA Walnut Creek 104.9 K285FA  
[Move from 92.7 at State Line, NV as  
K224CA; will now be Religious Teaching:  
'Relevant Radio' // KSFB-1260]

CA Watsonville 102.1 KXWS-LP  
Returns to the air with Spanish Religious

CA Woodlake 90.5 KLXY  
[Call change from KUFW]

CA Woodlake 104.1 KFRR  
Alternative Rock: 'New Rock 104.1'

CA Zuma Beach 99.1 KBUU-LP-FM2  
[Calls assigned to new station; will be  
Variety: 'Radio Malibu' // KBUU-LP]



CO Battlement Mesa 101.9 K270AY  
Adult Hits: 'The Vault' // KKVT 100.7; move  
from 101.5 as K268BL

CO Broomfield 92.5 KKSE-FM  
Sports: 'Altitude 92.5' (// KKSE-950)

CO Weldona 103.1 KFWA  
Returns to the air with Contemporary  
Christian: 'Way FM'



CT Norwalk 103.9 W280FX  
Talk: 'The Truth. On the Air. In the Community' // WNLK-1350 [Veritas Catholic Network]  
CT Stamford 105.5 W288DL  
[Move from 103.1 as W276AV]



FL Bayonet Point 100.3 W262CP  
Religious Teaching: 'Faith Talk 570-910' // WTBN-570 (also // WTWD-910)  
FL Bradenton 96.1 W241DH  
[Move from 96.5 as W243AK]  
FL Cross City 88.5 WWLC  
[Is Silent]  
FL Gainesville 95.3 W237EJ  
News/Talk // WUFT-FM 89.1  
FL Killlearn 98.3 W252DL  
Oldies: 'WPLK The Mix' // WPLK-800  
FL Largo 98.3 W252DF **and**  
FL Tampa 96.7 W244EG  
Classic Country // WWBA-820  
FL Miami Beach 93.9 WMIA-FM  
Hot AC: '93.9 Mia' [Includes W284CS 104.7 Miami]  
FL Milton 99.1 W256DL  
Sports: 'ESPN Pensacola' // WEBY-1330  
FL New Port Richey 101.9 W270DH  
Ethnic (Greek): 'Greek Voice Radio'  
FL Orlando 94.9 W235CR **and**  
FL Orlando 101.5 W269CT  
Religious Teaching: 'The Word Orlando' // WTLN-990  
FL Orlando 94.9 W235CR  
Talk: 'The Answer Orlando' // WTLN-950  
FL Orlando 101.5 W268CT  
Religious Teaching: 'The Word Orlando' // WDYZ-990  
FL Oviedo 105.5 W288CJ  
Talk // WDYZ-660

FL Sarasota 106.9 W295BH **and**  
FL Venice 95.9 W240DP  
Classic Hits: // WSRQ-1220  
FL Sugarloaf Key 105.7 WGAY  
Hot AC: 'Party 105.7'  
FL Tampa 96.3 WURK-LP  
Returns to the air with Urban Gospel  
FL Tampa 96.7 W244EG  
Classic Country // WWBA-820  
FL Wildwood 104.5 W283DK  
Calls assigned to new station; will be Adult Hits: 'The Voice of the Villages 640 AM' // WVLG-640

GA Alma 99.1 W256DS  
Southern Gospel // WAWO-1400  
GA Athens 92.7 W224CY **and**  
GA Athens 103.1 W276DH  
Urban Contemporary: 'WXAG 92.7 FM & 1470 AM' // WXAG-1470  
GA Calhoun 103.5 W278CD  
[// WEBS-1030 is Silent]  
GA Donaldsonville 99.1 W256DG  
Country // WSEM-1500  
GA Doraville 95.5 WSBB-FM  
News/Talk: '95.5 WSB' // WSB-750  
GA Dublin 92.7 WKKZ  
Hot AC: '92.7 WKKZ'  
GA Fort Valley 97.9 WIBB-FM  
Urban Contemporary: '97.9, #1 For Hip Hop and R&B'  
GA Macon 99.5 W258AP  
Classic Hits: 'Georgia's Greatest Hits' // WBML-1350  
GA Metter 103.7 WBMZ  
Classic Hits: '103.7 The Boomer'  
GA Royston 100.3 W262DB  
Classic Hits // WYZI-810  
GA Tallapoosa 88.7 WEYY  
Southern Gospel: 'Your Distinctive Christian Radio Choice'



ID Montpelier 103.1 K276DR  
 Hot AC: 'Now 97.9' // KBZN 97.9  
 ID Pocatello 107.5 K298BE  
 Returns to the air with News/Talk // KUER-  
 FM 90.1



IL Carpentersville 88.1 WWTG  
 Religious Teach: 'Life Connection Radio  
 88.1' [includes W219CD Elgin]  
 IL Champaign 92.1 W221CK  
 Classic Rock: 'extra 92.1', Iconic Rock' //  
 WIXY 100.3 HD2  
 IL Champaign 97.9 W250BL  
 Oldies: 'Pure Oldies 97.9' // WLRW 94.5  
 IL Chicago 88.3 WXAV  
 Adult Alternative: 'The Escape from  
 Ordinary Radio'  
 IL Lake Bluff 107.1 W296DF  
 [Move from 106.9 as W295CG]  
 IL Macomb 88.3 WIUS  
 Alternative Rock/Urban Contemporary:  
 '88.3 The Dog'  
 IL River Grove 88.9 WRRG  
 Adult Alternative  
 IL Salem 92.1 W221DU  
 Classic Country: 'Q 92.1' // WSIQ-1350



IN Cole 88.5 WJCF  
 [Call change from WNPP]  
 IN Fort Branch 101.5 WBGW-FM  
 Religious Teaching: 'Thy Word Network' //  
 WBGW-1330 (also // WBGW-FM 101.5)

IN Fort Wayne 104.3 W282CH  
 Oldies: 'Oldies 101.1' // WLYV-1450 ['101.1'  
 refers to WIOE-FM]  
 IN Frankfort 95.9 W245CO  
 Adult Standards: 'Community Radio' //  
 WILO-1570  
 IN Greenfield 88.1 WNPP-FM2  
 [Call change from WJCF-FM2]  
 IN Morristown 88.1 WNPP-FM  
 [Call change from WJCF]  
 IN South Whitley 101.1 WIOE-FM  
 [Call change from WIOE]

IA Clarinda 99.1 KMA-FM  
 Talk: 'KMA Land 960 AM & 99.1 FM'  
 IA Keokuk 90.9 KMDY  
 Religious Teaching: 'Lift FM 88.3' [includes  
 W209CH Quincy, IL]  
 IA Marshalltown 101.5 KDNH-LP  
 Returns to the air with Spanish Religious:  
 'Eternal Word TV Network'  
 IA Ottumwa 88.3 KQLF  
 Religious Teaching: 'Lift FM 88.3' [includes  
 W272AL Fairfield]

KS Hugoton 106.7 KHGN  
 [Call change from KULY-FM]  
 KS Wakeeney 95.3 KWKN  
 Contemporary Hit Radio:  
 'Kiss 104.7'



KY Bowling Green 91.7 WWHR  
 Alternative Rock: 'Revolution 91.7'  
 KY Corbin 88.5 WEKF  
 News/Talk [includes W245AS Barbourville  
 & W273AY Middlesboro]  
 KY Hazard 90.9 WEKH  
 News/Talk [includes W236AY Pikeville &  
 W242BR Harlan]  
 KY Hopkinsville 95.3 W237BV and  
 KY Hopkinsville 104.7 W284DP  
 Talk: 'News Talk 1230' // WHOP-1230



KY Hopkinsville 98.7 WHOP-FM  
Soft AC: 'Lite Rock 98.7'

KY Jenkins 103.5 W278BK  
Southern Gospel: 'Reaching Out For Jesus'  
// WKVG-1000

KY Lebanon Junction 99.3 WKMO  
Country: 'KMO 99.3'

KY Louisville 103.9 WRKA  
Hot AC: '103.9 The Groove'

KY Morehead 90.3 WMKY  
Classical/News: 'Public Radio To The  
Mountains'

KY Murray 104.5 W283CP  
Contemporary Hit Radio: 'The Busy Bee  
104.5' // WBZB-1130

KY Pineville 90.1 WEKP  
News/Talk

KY Prestonburg 104.5 W283AP  
Sports/Talk: 'Fox Sports East Kentucky' //  
WPRT-960 (also // W273BC 94.9  
Williamson, WV)



KY Richmond 88.9 WEKU  
News/Talk [includes W294BG 106.7  
Frankfort]



LA New Orleans 97.5 K248BB  
Spanish Hits: 'Spanish CHR': 'Latino Mix  
97.5 FM' // WFNO-1540

LA Norco 94.7 W234DH  
Spanish: 'Radio Tropical Caliente' // KGLA-  
830

LA Timberlake 105.7 K289AM  
Spanish Hits: 'Radio Tropical 105.7 FM' //  
KGLA-830



ME Dover-Foxcroft 103.1 WZLO  
Adult Alternative: 'Maine's Adult Alternative  
103.1 & 98.3' [includes W252CT 98.3  
Bangor]

ME Gardiner 106.3 W292FZ  
Oldies: 'Fun Oldies 1280' // WJYE-1280

ME Portland 98.5 W253DA  
News/Talk: 'NewsRadio 560 & 98.5' //  
WGAN-560

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MB Dauphin 97.3 CIDM-FM  
[Calls assigned to new station]

MB Flin Flon 90.9 CBWF-4-FM  
[Frequency move 99.9]

MB Winnipeg 100.5 CFJL-FM  
Hot AC: 'Hot 100.5'

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MD Cambridge 105.3 W287DN  
Sports: 'Radio 1240 WCEM' // WCEM-1240

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MA Boston 99.9 W260DS  
Spanish Talk // WJDA-1300

MA Brockton 97.7 WKAF  
Hot AC: '97.7 The Beat'

MA East Falmouth 88.3 WYZX  
Religious Teaching: 'Renew FM'

MA Fitchburg 106.1 W291DA  
Religious Teaching: 'Renew FM' // WFGL-  
960

MA Gardner 91.7 WJWT  
Religious Teaching: 'Renew FM'

MA Lunenburg 91.7 WTYN  
Religious Teaching: 'Renew FM'

MA Pittsfield 97.1 W246DM  
Hot AC/Talk: 'The Peak' // WBRK-1340

MA Wellfleet 90.1 WRYP  
Returns to the air with Religious Teaching:  
'Renew FM' [includes W244CF 96.7  
Plymouth, W271CG 102.1 Quincy &  
W279BQ 103.7 Boston]





MI	Alpina	107.7	WHSB	Hot AC: '107.7 The Bay'
MI	Marquette	94.1	WUPK	Rock: '94 Rock'
MI	Otsego	98.9	K255DE	Oldies: 'Memories and More' // WAKV-980
MI	Petoskey	96.3	WLXT	Adult Contemporary: 'Lite 96'
MI	Plymouth	88.1	WSDP	Hot AC: '88.1 The Park'
MN	Rochester	91.7	KZSE	News/Talk: 'Minnesota Public Radio' [includes K270AB 91.7]
MS	Clarksdale	94.9	W235CX	<b>and</b>
MS	Clarksdale	97.5	W248CL	[// WROX-1450 is Silent]
MS	Cleveland	98.3	WBYP	Oldies: 'Good Times & Great Oldies'
MS	Collins	95.1	W236DD	Gospel Music: 'Brookhaven's Gospel Radio' // WAML-1340
MS	Collinsville	103.3	WZKR	Talk: 'Supertalk Mississippi 103.3'



MO	Joplin	88.7	KXMS	Variety: 'Fine Arts Radio International'
MO	Saint Joseph	107.5	K298DA	Classic Rock: 'Joetown 107.5' // KESJ-1550
MO	Springfield	91.1	KSMU	News/Talk/Classical [includes KSMW 90.3 West Plains, K204FX 88.7 Mountain Grove and K279AD 103.7 Neosho, all Missouri]
MT	Big Sky	91.9	K220KD	[Move from 92.3 as K222CJ]
MT	Billings	91.7	KEMC	News/Talk/Classical: 'Yellowstone Public Radio' [changes affect their entire network; check the WTFDA database for the complete list of YPR stations]

MT	Livingston	88.7	K204GR	News/Classical: 'Yellowstone Public Radio' // KBMC 102.1; move from 88.5 as K203AG
NE	Gretna	90.1	KZLW	Is Silent pending a tower move [includes K255CJ Briggs]
NV	Amargosa Valley	101.1	KPKK	Talk: 'Nevada Talk' [includes KAVB 98.7 Hawthorne]
NV	Reno	88.7	KUNR	News/Talk/Classical
NL	Marystown	88.3	CHCM-FM	New station granted; will be News/Talk // VOCM-590; move from 740 kHz
NB	Fredericton	93.3	CIRC-FM	[License cancelled; call deleted]
NB	Moncton	90.1	CIRM-FM	[License cancelled; call deleted]
NB	Saint John	96.1	CINB-FM	Community Radio
NJ	Ocean City	102.7	WLRB	Contemporary Christian: 'K-Love'
NM	Gallup	98.3	K271AB	Oldies: 'Rocking' Oldies 1230 & 98.3 // KYVA-1230



NM	Portales	89.5	KENW	News/Talk/Classical: 'KENW NPR New Mexico' [changes affect their entire network; check the WTFDA database for the complete list]
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NE	Falls City	107.1	K296HK	Oldies: 'AM 1230 FM & 107.1, KTNC' // KTNC-1230
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NY	Buffalo	98.9	W255DH	<b>and</b>
NY	Buffalo	100.3	W262CM	[// WBBF-1120 is Silent]

NY	Calverton-Roanoke	105.3	WPTY	NC	Fremont	99.3	WFWC-LP
	Hot AC: 'Party 105.3'				[License cancelled; calls deleted]		
NY	Clifton Park	96.7	WDCD-FM	NC	Hickory	101.3	W267CH
	Religious Teaching: 'Mars Hill Network'				Oldies: 'Total Radio 101.3 FM & 1230 AM' // WNNC-1230		
NY	Coblesville	103.5	WQBJ	NC	Roanoke Rapids	102.7	W274AZ
	Alternative Rock : 'Alt 103.5'				Urban Gospel/R&B Oldies // WCBT-1230		
NY	Delhi	97.5	WTBD-FM	NC	Salisbury	103.3	W277DD
	Hot AC				Classic Hits: 'Memories Radio' // WSAT-1280 (also // WEGO-1410 / W252DI 98.3)		
NY	Delhi	100.3	WDHI	NC	Sanford	95.1	W236DE
	Classic Hits: 'Oldies 100' // WIYN Deposit				Country: 'Today's Best Country' // WWGP-1050		
NY	Deposit	94.7	WIYN	NC	Spindale	88.7	WNCW
	Classic Hits: 'Oldies 100' // WDHI Delhi				Adult Alternative [includes their five translators]		
NY	Garden City	92.7	WQBU-FM	NC	Wake Forest	106.5	W293xx
	Spanish: 'Que Buena 92.7' [includes WQBU-FM1 New York and WQBU-FM-2 Brooklyn]				Religious Teaching: 'The Truth' // WDRU-1030; move from 96.5 at Myrtle Beach, SC as W243CT; <b>new calls yet to be assigned</b>		
NY	Geneva	89.5	WEOS	NC	Wilmington	107.1	W296DP
	News/Talk: 'Finger Lakes Public Radio' [includes W212BA Geneva]				[Format is Unavailable as // WLTT-1180 is Silent]		
NY	Lake Success	103.5	WKTU	NS	Canning	88.3	CJLU-FM-1
	Hot AC: 'The Beat of New York!'				[City-of-Licence move from Wolfville]		
NY	New York	102.3	W272DX	NS	Sydney	107.3	CJBU-FM
	Religious Teaching: 'AM 570 The Mission WMCA' // WMCA-570; move from 104.5 at Danville as W283BR				College		
NY	Olean	107.1	W298DB	<hr/>			
	Classic Hits: 'Big OLY 107.1 FM and 1450 AM' // WOLY-1450 ('OLY: a play on the city of Olean)						
NY	Plattsburgh	100.3	W262DK	OH	Delaware	92.9	W225CM
	Religious Teaching: 'Total Christian Radio' // WCHP-760				Classic Hits: 'Local 92.9 FM & 1550 AM'		
NY	Redwood	88.9	W205CS	OH	Elyria	107.3	WNWV
	Format is Unavailable as // WJZZ-FM 88.1 is Silent; move from 99.5 as W258CU				Soft AC: '107.3 The Wave'		
NY	Rensselaer	103.9	WQBK-FM	OH	Logan	99.3	W257EQ
	Adult Contemporary: '103.9 The Breeze'; call change from WQBK-FM				Country: 'The Wolf' // WLOH-1320		
NY	South Fallsburg	99.7	WJUX	OH	Lorain	98.9	W255CW
	Religious Teaching: '89.7 The Bridge' [Includes W295BK 106.9 Poughkeepsie]				Oldies: 'Kool Kat Oldies 1380 & 98.9' // WDLW-1380		
NY	Southampton	88.9	W205xx	OH	Marysville	96.7	W244DV
	[Move from 99.5 at Redwood as W258CU; <b>new calls yet to be assigned</b> ]				Classic Rock: 'Classic Rock 96.7 FM & 1270 AM' // WQTT-1270		
NY	Warwick	93.5	W228CG	OH	Oberlin	107.7	W299CJ
	Talk/Variety // WTBQ-1110				Classic Country: 'Gold Country 1320 & 107.7' // WOBL-1320		
NC	Canton	101.7	W269DK	OH	Gainesville	94.7	W234DO
	Classic Country: 'Your Country' // WPTL-920				Calls assigned to new station; will be Adult Contemporary: 'WBBQ 104.3' // WBBQ-1460 (also // WBBQ-FM 104.3)		
NC	Concord	98.3	W252DI				
	Classic Hits: 'Memories Radio' // WEGO-1410 (also // WSAT-1280 / W277DD 103.3)						

OH Perrysburg 99.5 W258BT  
 Religious Teaching: 'CSN International' // WWYC-1560



OK El Reno 107.1 K296HC  
 [Move from 96.7 as K244DW]  
 OK Tishomingo 99.7 KBBC  
 Contemporary Hit Radio: 'B 99.7 The Buzz'



ON Little Current 100.7 CFRM-FM  
 Variety Hits (HITS 100)  
 ON Paris 88.3 CJIQ-FM  
 Alternative Rock: 'New Rock 88.3'  
 ON Vermilion Bay 103.3 CKQV-FM  
 Classic Hits: 'Q104' [includes CKQV-1  
 104.3 Dryden, CKQV-2 104.5 Kenora &  
 CKQV-3 104.1 Sioux Lookout]  
 ON Windsor 88.7 CIMX-FM  
 Alternative Rock: '89 X'

OR Portland 99.1 KSFL-LP  
 Variety: 'Portland Radio Project'  
 OR Portland 101.5 KDOO-LP  
 Returns to the air with Variety  
 OR Warrenton 90.9 KCPB-FM  
 News/Classical: 'Coast Community Radio'



PA Allentown 100.7 WLEV  
 Adult Contemporary: '100.7 WLEV'  
 PA Bellefonte 95.3 WZWW  
 Adult Contemporary: '3WZ 95.3'  
 PA Danville 96.7 WPGM-FM  
 Contemporary Christian/Religious Teaching  
 [includes W271BP Williamsport; is also // WPGM-1570]

PA Erie 103.3 W277DS **and**  
 PA Erie 105.9 W290BI  
 Talk: 'Talk Erie!' // WZTE-1530  
 PA Harrisburg 95.3 W237DE **and**  
 PA Harrisburg 96.5 W243BR  
 Sports: 'CBS Sports Radio 96.5, 95.3 &  
 1400' // WHGB-1400  
 PA Johnstown 102.9 W275CV  
 Soft AC  
 PA Philadelphia 102.5 W273DO  
 Sports: 'The Gambler' // WDAS-1480  
 PA Pittsburgh 99.1 W256DE  
 Talk: 'Talk Radio 1320 WJAS' // WJAS-1320  
 PA Pittsburgh 107.1 WXSQ-LP  
 [Calls assigned to new station]  
 PA State College 94.5 WBHV-FM  
 Contemporary Hit Radio: '94.5 The B'  
 PA Waynesboro 100.9 W265DU  
 News/Sports: '100.9 The Line' // WLIN-1380



PR Mayaguez 99.9 W260DR  
 Spanish News/Talk: 'Noti Uno' // WORA-760  
 PR Ponce 95.5 W238DH  
 News/Talk: 'Noti Uno' // WPRP-910  
 PR San Juan 105.7 WCAD  
 Returns to the air with Contemporary  
 Christian: 'K-Love' [includes WCAD-FM1  
 Fajardo and WCAD-FM2 Juana Diaz]

QC Montreal 92.5 CKBE-FM  
 Hot AC: '92.5 The Beat'

SK Regina 92.7 CHBD-FM  
 'Pure Country 92.7'



SC Camden 98.7 W254DQ  
 Classic Country: "'Carolina Country Classics  
 1590 AM and 98.7 FM' // WCAM-1590  
 SC Charleston 102.9 WBEI-LP  
 [Call change from WMHE-LP]

SC Cokesbury 91.9 WHRT-FM  
Religious Teaching/Contemporary  
Christian: 'Christian Talk 91.9'

SC Columbia 101.7 W269xx  
[Move from 105.9 as W290CY; **new calls  
yet to be assigned**]

SC Columbia 103.5 W278CY  
News/Talk: 'Columbia's News, Talk and  
Sports' // WVOC-560

SC Greenville 92.9 W225AZ  
Country: 'Carolina's Best Country' //  
WESC-660 [also // WESC-FM 92.5]

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TN Manchester 95.9 W240EF **and**  
TN Tullanoma 105.1 W286BG  
Country: 'Whiskey Country 95.9 & 105.1' //  
WHMT-740



TX Austin 96.3 K242DE  
[Move from 96.1 as K241DA]

TX Balch Springs 99.9 KYBS-LP  
Variety

TX Diboll 103.7 K279DC  
Sports: 'Your Sports Choice 1260 AM &  
103.7 FM' // KSML-1260

TX El Campo 105.3 K287CK  
[Move from 89.5 as K208DK; remains silent  
pending sale]

TX Emory 98.3 KKVI-LP  
Variety; City-of-License move from  
Greenville

TX Hondo 105.9 KAHL-FM  
Returns to the air with Adult Standards

TX Houston 96.1 KTRU-LP  
[Call change from KBLT-LP]

TX Huntsville 94.1 K231DA **and**  
TX Huntsville 104.9 K285GE  
Classic Hits: 'The Hits 104.9 & 94.1' //  
KHVL-1490

TX Lovelady 104.3 KHMR  
Returns to the air with Contemporary  
Christian: '104.3 Joy FM'

TX Lufkin 100.1 KYBI  
Country: 'Your Country Choice - KYBI'

TX Luling 94.7 KAMX  
Hot AC: 'Mix 94.7'

TX Mc Allen 96.5 KGDQ-LP  
[Calls assigned to new station]

TX Meridian 106.5 KITT  
[Change in City-of-License from Hico]

TX Pittsburg 91.7 KPIT  
Contemporary Christian: 'Real Honest  
Radio' [includes K265DW Mount Pleasant  
which is Silent due to lightning damage]

TX Plainview 88.5 KPMB  
Spanish Religious: 'Radio Vida Vision'

TX Rusk 103.9 K280CL  
[// KTLU-1580 is Silent]

TX Victoria 99.3 KGXG-LP  
[Calls assigned to new station]




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UT Ephraim 88.9 KAGJ  
Alternative Rock: 'The Kage'

UT Enoch 93.9 KUQU  
Returns to the air with News/Talk // KUER-  
FM 90.7

UT Salt Lake City 94.5 KZSK-LP  
[Is Silent]

UT Tremonton 88.1 KNKL  
[Change in City-of-License from Ogden]



VA Chase City 90.1 WMVE  
News/Talk: 'VPM News'

VA Emporia 89.3 WPZR  
[Call change from WJYA]

VA Emporia 99.5 WYTT  
Urban Contemporary: '99.5 Jamz'

VA Ettrick 93.1 WWLB  
Classical/Jazz: 'VPM Music'

VA Gloucester 102.3 W272EJ  
Oldies // WXGM-1420

VA Heathsville 89.1 WCNV  
News/Talk: 'VPM News'

VA Newport News 100.9 W265EF  
R&B Oldies/Talk: '1310 The Power' // WGH-  
1310

VA Norfolk 107.7 WMOV-FM  
Hot AC: 'Movin 107.7' [Includes W294AF  
106.7 Ripley, WV]

VA Powhatan 107.3 WBBT-FM  
 Classical/Jazz: 'VPM Music'  
 VA Richmond 88.9 WCVE-FM  
 News/Talk: 'VPM News'



WA Kennewick 88.1 KTCV  
 Adult Alternative: 'KTCV 88.1 The Edge'  
 WA Olympia 100.3 K262CY  
 [Move from 92.9 as K225BY]  
 WA Seattle 98.5 K253CG  
 [City-of-License move from Redmond]



WV Beckley 101.7 W269DV **and**  
 WV Fayetteville 107.7 W299CF **and**  
 WV Lewisburg 107.7 W299CZ **and**  
 WV Summersville 92.1 W221CO  
 Classic Rock: 'The River 107.7' // WRRL-  
 1130 [NOTE: W269DV moves from 101.5  
 as W268AZ]  
 WV Fairmont 94.3 WRLF  
 Rock: '94 Rock'  
 WV Williamson 102.5 W273BC  
 Sports: 'Fox Sports East Kentucky' //  
 WBTH-1400



WI Medford 107.1 W296DL  
 Country: 'Kickin` Country 1490 AM & 107.1  
 FM' // WIGM-1490  
 WI Neillsville 92.7 WPKG  
 Hot AC: '92.7 FM WPKG'  
 WI Neillsville 98.5 W253CN  
 Adult Standards: 'Memories 1370 AM  
 WCCN' // WCCN-1370  
 WI Neillsville 107.5 WCCN-FM  
 Rock: '107.5 FM The Rock'



WY Crowley 103.3 KBEN-FM  
 Classic Country: '103.3 The Range'  
 WY Lander 107.7 K299BC  
 Country: ' Hot Country & Old Time Favorites  
 1330 AM & 107.7 FM' // KOVE 1330  
 YT Carcross 97.5 CIKO-FM  
 [Deleted from ISEDC database]

# PHOTO NEWS



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

August 2019

Here's some recent stuff from Chris Dunne in Pembroke Pines, FL:



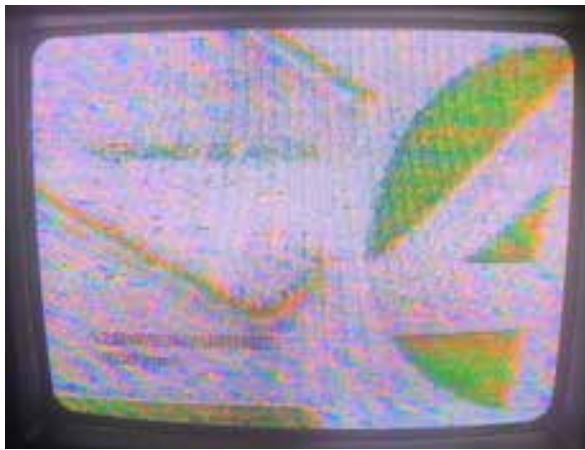
WRAL-48 Raleigh, NC  
676 mi Tr  
Seen 5/30/19



WCBD-50 Charleston, SC  
480 mi Tr  
Seen 5/30/19



WCTV-46 Thomasville, GA  
385 mi Tr  
Seen 5/25/19



TIIVS-4 San José, Costa Rica  
1120 mi Es  
Seen 5/30/19



4VST-2 Port au Prince, Haiti  
720 mi Es  
Seen 6/27/19



YNFA304-4 Managua, NIC  
1020 mi Es  
Seen 5/30/19



Oye TV 4  
Cerro Bijao, Panama  
1200 mi Es  
Seen 5/30/19





# Coast to Coast TV DX

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

Send reports by the 15<sup>th</sup> of each month to:  
 Nick Langan  
 42 Holly Park Drive  
 Tabernacle, NJ 08088  
 E-mail: [nickl@wtfda.org](mailto:nickl@wtfda.org)

## *The Editor's Note*

E-Skip season is now in the rear-view mirror, an unsatisfying campaign for many (though the opening on July 20 stood out, particularly for those in the middle portion of the U.S.). September and early fall are often the prime time for long-haul tropo in the Midwest, Great Lakes, and East, though one can never quite depend on the weather to cooperate these days. We hope for some action soon enough.

We welcome back Eric Bueneman, who sends in a report inside this edition of C2CTVDX.

### **Eric Bueneman (NØUIH)**

631 Coachway Lane  
 Hazelwood, MO 63042-1347

Equipment: 1984 Samsung 19-inch color TV, 1999 Daewoo 13-inch color TV, two Zenith DTT-901 DTV tuners, Channel Master CM-3020 VHF/UHF/FM Yagi antenna at 28 feet (8.5 meters) above ground level.

All times CDT, all distances in miles/kilometers. An asterisk (\*) next to the channel number indicates analog reception.

June 29, 2019 (groundwave)

2213	WODK-LD	30-1	MO Saint Louis
	(Soul of the South)	15/24	
2214	WODK-LD	30-2	MO Saint Louis
	(infomercials)	15/24	
2214	WODK-LD	30-3	MO Saint Louis
	(infomercials)	15/24	
2214	WODK-LD	30-4	MO Saint Louis
	(infomercials)	15/24	

2215	WODK-LD	30-5	MO Saint Louis
	(infomercials)	15/24	

July 4, 2019 (tropo)

0034	KOMU	8-1	MO Columbia (NBC)
		105/169	
0034	KOMU	8-3	MO Columbia (CW)
		105/169	
0036	KNLJ	20-1	MO Jefferson City
	(CTN)	100/161	
0036	KNLJ	20-2	MO Jefferson City
	(CTNi)	100/161	
0043	KMIZ	17-1	MO Columbia
	(ABC)	105/169	
0043	KMIZ	17-2	MO Columbia (Me-TV)
		105/169	
0044	KMIZ	17-3	MO Columbia (My)
		105/169	
0053	WPXS	21-1	IL Mount Vernon
	(Daystar)	85/137	
0053	WPXS	21-2	IL Mount Vernon
	(Retro TV)	850/137	

0623	WSIU	8-1	IL	Carbondale	(PBS) 100/161
0623	WSIU	8-2	IL	Carbondale	(World) 100/161
0623	WSIU	8-3	IL	Carbondale	(Create) 100/161
0627	WAND	17-1	IL	Decatur (NBC)	110/177
0627	WAND	17-2	IL	Decatur (Cozi-TV)	110/177
0627	WAND	17-3	IL	Decatur (Ion)	110/177
0629	WICD	32-1	IL	Champaign	(ABC, ex-41) 150/240
0629	WICD	32-2	IL	Champaign	(Comet) 150/240
0629	WICD	32-3	IL	Champaign	(TBD) 150/240
0630	WICD	32-4	IL	Champaign	(Charge!) 150/240
0633	WCIA	48-1	IL	Champaign	(CBS) 150/240
0633	WCIA	48-2	IL	Champaign	(WCIX 13-1) 150/240
0633	WCIA	48-3	IL	Champaign	(Bounce) 150/240
0634	WCIA	48-4	IL	Champaign	(Grit-TV) 150/240

July 5, 2019 (tropo)

0509	WRSP	44-1	IL	Springfield (Fox)	80/128
0509	WRSP	44-2	IL	Springfield (Me-TV)	80/128
0510	WRSP	44-3	IL	Springfield (Antenna TV)	80/128
0525	WBUI	22-1	IL	Decatur (CW)	110/177
0525	WBUI	22-2	IL	Decatur (This TV)	110/177
0526	WBUI	22-3	IL	Decatur	(Stadium TV) 110/177
0527	WICS	42-1	IL	Springfield	(ABC) 80/128
0527	WICS	42-2	IL	Springfield	(Comet) 80/128
0527	WICS	42-3	IL	Springfield	(TBD) 80/128
0528	WICS	42-4	IL	Springfield	(Charge!) 80/128
0545	WILL	9-1	IL	Urbana (PBS)	155/249

0545	WILL	9-2	IL	Urbana (PBS Kids)	155/249
0546	WILL	9-3	IL	Urbana	(Create) 155/249

July 17, 2019 (tropo)

2050	KHQA	7-1	MO	Hannibal (CBS)	85/137
2050	KHQA	7-2	MO	Hannibal (ABC)	85/137
2050	KHQA	7-3	MO	Hannibal	(Comet) 85/137
2158	WCQA-LD	12-1	IL	Springfield	(Azteca) 80/128
2158	WCQA-LD	12-2	IL	Springfield	(infomercials) 80/128
2200	WCQA-LD	12-3	IL	Springfield	(infomercials) 80/128
2215	WMBD	30-1	IL	Peoria (CBS)	140/225
2215	WMBD	30-2	IL	Peoria (Bounce)	140/225
2215	WMBD	30-3	IL	Peoria (Laff-TV)	140/225
2216	WMBD	30-4	IL	Peoria (Escape)	140/225
2233	WAWV	39-1	IN	Terre Haute (ABC)	170/274
2233	WAWV	39-2	IN	Terre Haute (Grit TV)	170/274
2233	WAWV	39-3	IN	Terre Haute	(Bounce) 170/274
2235	WTWO	36-1	IN	Terre Haute (NBC)	170/274
2235	WTWO	36-2	IN	Terre Haute (Laff-TV)	170/274
2235	WTWO	36-3	IN	Terre Haute	(Escape) 170/274
2236	WTWO	36-4	IN	Terre Haute (Cozi-TV)	170/274
2349	KRCG	12-1	MO	Jefferson City	(CBS) 100/161
2349	KRCG	12-2	MO	Jefferson City	(Comet) 100/161
2349	KRCG	12-3	MO	Jefferson City	(Charge!) 100/161
2350	KRCG	12-4	MO	Jefferson City	(TBD) 100/161
2356	WTJR	32-1	IL	Quincy (CTN)	110/177
2356	WTJR	32-2	IL	Quincy	(Lifestyle) 110/177

2357 WTJR 32-3 IL Quincy (CTNi)  
110/177

July 18, 2019 (tropo)

0122 WGEM 10-1 IL Quincy (NBC)  
110/177  
0122 WGEM 10-2 IL Quincy (CW)  
110/177  
0122 WGEM 10-3 IL Quincy (Fox)  
110/177  
0123 WGEM 10-4 IL Quincy (Me-TV)  
110/177  
0130 WTCT 17-1 IL Marion (TCT  
HD) 100/161  
0130 WTCT 17-2 IL Marion (TCT  
SD) 100/161  
0131 WTCT 17-3 IL Marion (Light  
TV) 100/161  
0145 WEHT 7-1 IN Evansville  
(ABC) 165/266  
0145 WEHT 7-2 IN Evansville (Laff-  
TV) 165/266  
0146 WEHT 7-3 IN Evansville  
(Cozi-TV) 165/266  
0148 WSIL 34-1 IL Harrisburg  
(ABC) 130/209  
0148 WSIL 34-2 IL Harrisburg  
(Heroes & Icons) 130/209  
0148 WSIL 34-3 IL Harrisburg  
(Justice) 130/209  
0149 WSIL 34-4 IL Harrisburg  
(Court TV) 130/209  
0149 WSIL 34-5 IL Harrisburg (Ion)  
130/209  
0208 WTVW 28-1 IN Evansville  
(independent) 165/266  
0208 WTVW 28-2 IN Evansville (Bounce)  
165/266  
0208 WTVW 28-3 IN Evansville (Escape)  
165/266  
0209 WTVW 28-4 IN Evansville (Ion)  
165/266  
0318 WTHI 10-1 IN Terre Haute  
(CBS) 170/274  
0318 WTHI 10-2 IN Terre Haute  
(Fox) 170/274  
☐ 0318 WTHI 10-3 IN Terre  
Haute (infomercials) 170/274  
0319 WTHI 10-4 IN Terre Haute (Ion) 170/274

July 20, 2019 (E-skip)

1410 CITO \*3 ON Timmins  
805/1,296  
1410 CIII2 \*2 ON Bancroft  
805/1,296  
1449 CICI \*5 ON Sudbury  
715/1,151

I've been away from TV DXing for four years; I've had to deal with the passing of my mother in October 2015 and also dealt with some health issues which kept me away from the TVs. My TV/FM array was destroyed by high winds in April 2016. With the help of three local Hams, I have returned to TV DXing with a Channel Master CM-3020, which is quite the antenna. While I was away from TV DXing, local KETC moved from 39 to 23; the PBS station has a much improved signal on 23 than it did on 39. The move allowed me to log WAWV; I previously had PSIP info only when it was WFXW. I also noted WICD on their new channel 32; I'm guessing this is their post-repack channel. WCQA-LD 12 was indeed a pleasant surprise. I was also pleased with the E-skip opening to the U.S.-Canadian border on July 20. The analog TV logbook now stands at 580, with the digital TV logbook standing at 171. 73 and good DX from NØUIH, the Florissant Valley Dial Twister.



### Southern Taurids

Next period of activity: September 10th, 2019 to November 20th, 2019

The Southern Taurids are a long-lasting shower that reaches a barely noticeable maximum on October 9 or 10. The shower is active for more than two months but rarely produces more than five shower members per hour, even at maximum activity. The Taurids (both branches) are rich in fireballs and are often responsible for increased number of fireball reports from September through November.



Southern FM DX

John Zondlo – 4009 Driftwood Circle – Yukon, OK 73099  
southernfmdx@wtfd.org – Deadline: 15th  
September 2019

**Doug Speheger** – Norman, OK

7/20 Es

- 1240 WTWF 93.9 PA Fairview, Erie area ads 1042
- 1241 WKXZ 93.9 NY Norwich, area ads 1280
- 1245 WBLK 93.7 NY Depew, RDS PS: WBLK-FM, "Power 93.7," stream match 1123
- 1249 WAOI 95.1 NY Honeoye Falls, "Radio 95," iHeart, Rochester area mentions 1195
- 1250 CFNZ 96.3 ON Toronto, classical 1121
- 1257 WPXY 97.9 NY Rochester, "98-PXY" 1190
- 1302 WRMM 101.3 NY Rochester, soft AC, RDS PTY: "Soft Rock" 1187
- 1317 CFLY 98.3 ON Kingston, Kingston mention, area ads 1267
- 1318 CIGL 97.9 ON Belleville, "Mix 97" 1226
- 1319 CKOT 101.3 ON Tillsonburg, "Easy" 1036
- 1325 CJMX 105.3 ON Sudbury, "Kiss 105.3," hot AC, stream match 1153
- 1332 WFRG 104.3 NY Utica, "Big Frog 104" 1292
- 1336 WGFM 105.1 MI Cheboygan, rock, EAS severe thunderstorm warning for Leelanau, Benzie and Grand Traverse counties 956
- 1342 WSUE 101.3 MI Sault Ste. Marie, rock, RDS PS: The Sault's Rock Station 1029
- 1346 WWTH 100.7 MI Oscoda, "Thunder Rock" 982
- 1347 K264CF 100.7 MI St. Ignace, "Big Country Gold," first translator by Es 983
- 1348 WQON 100.3 MI Grayling, "Q-100," Mount Pleasant area mentions 931
- 1351 WCMZ 98.3 MI Sault Ste. Marie, RDS PS: WCMU NPR, PTY: News 1036
- 1355 WRGZ 96.7 MI Rogers City, area ads 1000
- 1358 WIHC 97.9 MI Newberry, "Strong Tower Radio" 1005
- 1400 WUPN 95.1 MI Paradise, "Eagle 95.1" 1018
- 1402 WNBY 93.9 MI Newberry, RDS PS: OLDIES 93, PTY: Oldies 1005
- 1404 WFCX 94.3 MI Leland, "Fox 94.3/92.5" 904
- 1408 CJTK 95.5 ON Sudbury, "KFM Radio," stream match 1155
- 1429 CHGO 104.3 QC Amos/Val D'or, French 1353
- 1440 CBON25 97.1 ON Timmins, ICI Premiere 1229
- 1445 CHMT 93.1 ON Timmins, "Moose FM" 1224
- 1458 CBCC 91.9 ON Hearst, CBC Radio One Sudbury 1218
- 1502 CJSD 94.3 ON Thunder Bay, "Rock 94" 1011

.....  
**Eric Bueneman** – N00UIH – 631 Coachway Lane – Hazelwood, MO 63042-1347

Equipment: (FM) Kenwood AR-304 AM/FM/FM Stereo receiver with filter modification, Channel Master CM-3020 VHF-TV/UHF-TV/FM yagi antenna at 28' (8.5m) AGL, (NOAA Weather Radio) Uniden Bearcat BCD996P2 analog/digital scanner, Radio Shack discone antenna at 32' (9.7m) AGL. All times CDT, all distances in miles/kilometers.

6/30 Tr/Gw

- 0107 K296HA 107.1 MO Washington, "Westplex 107-1," hot AC, no mention of KRAP 1350 Washington MO 50/80
- 0115 KWUL 101.7 MO Elsberry, "K-Wolf 101.7," classic rock, MO FM #180 50/80

0130 WLFZ 101.9 IL Springfield, "101-9 the Wolf," country, morning show promo, K270BW nulled 80/128  
0132 K291CW 106.1 MO St. Louis, "The Big 550 KTRS," *The Jim Bohannon Show*, weaker than the other STL  
Translators 15/24  
0149 KWEC-LP 106.9 MO St. Peters, choral Christian music, legal ID at 0200 15/24  
0203 WKYQ 93.3 KY Paducah, "93.3 WKYQ," country 155/249  
0218 W284DN 104.7 IL Jerseyville, "Real Country 104.7 FM and 1480 AM," classic country, local ads 25/40  
0220 WPBG 93.3 IL Peoria, "93-3 The Drive," classic hits, mixing with WKYQ 140/225  
0313 KEZS 102.9 MO Cape Girardeau, "K-103," country, K275CI nulled 115/184  
7/1 Tr/Gw  
0257 WLLM 90.1 IL Carlinville, light Christian music, multi-station ID at 0300 50/80  
0301 KWJK 93.1 MO Boonville, "Jack FM," adult hits, KBDZ nulled 125/201  
0324 KWAP-LP 97.5 MO Florissant, urban Gospel music, no ID! 5/8  
0325 WUIS 91.9 IL Springfield, BBC World Service news, over K220HT 80/128  
0338 WCOY 99.5 IL Quincy, "Coyote Country," country 110/177  
0339 KCMQ 96.7 MO Columbia, "Rock 96-7 KCMQ," AOR, K244FO nulled 105/169  
0343 KGRC 92.9 MO Hannibal, "Real 92-9," Elvis Duran promo, CHR 85/137  
2015 KWRH-LP 92.9 MO Webster Groves, "The Voice of Webster Groves/Rock Hill," classical, call letters  
15/24  
7/2 Tr  
0227 KTTR 99.7 MO St. James, *The Dave Ramsey Show*, local ads 75/121  
0237 WIBV 102.1 IL Mount Vernon, local ads, jingle, country 85/137  
0244 KPLA 101.5 MO Columbia, "101.5 KPLA," local ads, AC, mixing with WCIL 105/169  
0246 WCIL 101.5 IL Carbondale, "101.5 CIL-FM," CHR, over KPLA 100/161  
7/4 Tr  
0106 KJAB 88.3 MO Mexico, southern Gospel, prayers 95/153  
0112 KPOW 97.7 MO LaMonte, "Power 97-7," local ads, wx forecast, classic hits, KHZR nulled 165/266  
0247 KWWR 95.7 MO Mexico, "Country 96," country 95/153  
0345 KBIA 91.3 MO Columbia, BBC World Service talk on composition 105/169  
0355 WSIU 91.9 IL Carbondale, classical music, legal ID at 0400, NPR news 100/161  
0647 WWVR 98.5 IL Paris, "98-5 the River," classic rock, local ads 145/233  
0654 WQLZ 97.7 IL Petersburg, "Real Rock 97-7 QLZ," rock, over KHZR 90/145  
7/5 Tr  
0517 WYDS 93.1 IL Decatur, "93-1 the Party," local ads, CHR, over KBDZ 110/177  
0523 WHMS 97.5 IL Champaign, "Light Rock 97-5," wx forecast, AC/Oldies, local KWAP-LP off 150/240  
0533 WEFT 90.1 IL Champaign, ID, alternative rock program 150/240  
7/11 Tr  
0025 KZNN 105.3 MO Rolla, "Super Station KZNN," local ads, *The Blair Garner Show*, K287BY and WAOX  
nulled 95/153  
0049 KLPW 107.3 MO Steelville, *ESPN SportsCenter All Night*, K297BI nulled 70/113  
0102 KTTR 99.7 MO St. James, ABC news, local ads, *The Dave Ramsey Show* 75/121  
0114 KBKC 90.1 MO Moberly, *Mother Angelica's Catholic Classics*, parallel with other Covenant Network  
stations, MO FM #190 115/184  
0143 KSEF 88.9 MO St. Genevieve, classical, legal ID with KRCU 90.9 at 0200 65/105  
7/17 Tr  
2042 WSWT 106.9 IL Peoria, "The New Mix 106.9," *Delilah*, local ads 140/225  
2054 WPBG 93.3 IL Peoria, "93-3 the Drive," local ads, legal ID, classic hits 140/225  
2102 KGRS 107.3 IA Burlington, "Mix 107.3," hot AC, K297BI nulled 140/225  
2125 WXJ71 162.475 IL Peoria, heat warnings, CDT time check, extended summary 140/225  
2131 WXL64 162.4 IA Dubuque, weather summary, Dubuque climate summary 260/418  
2143 KZZ66 162.4 IL Galesburg, CDT time check, heat warnings 155/249  
2147 WLLR 103.7 IA Davenport, "103.7 WLLR," country, W279AQ nulled 185/298  
2211 WDZQ 95.1 IL Decatur, "Decatur's Country Home, 95-Q," country, K236CS nulled 110/177  
2328 WSOY 102.9 IL Decatur, "Y-103, Decatur's #1 Hit Music Station," CHR, K275CI nulled 110/177  
2336 WUSW 92.7 IL Taylorville, "US 92.7," country, W224DC nulled 70/113

7/18 Tr

0020 KEZS 102.9 MO Cape Girardeau, "102.9 K-103," country, over K275CI 115/184  
0024 KOQL 106.1 MO Ashland, "Q-106.1," CHR 100/161  
0029 KATI 94.3 MO California, "94.3 Cat Country," country, W232CR nulled 120/193  
0225 WRUL 97.3 IL Carmi, country, call letters, local ads 130/209  
0322 WFMB 104.5 IL Springfield, local ads, call letters, country, KSLQ nulled 80/128  
0349 WXJ91 162.525 KY Madisonville, regional weather conditions, CDT time check 190/306

7/19 Tr

0012 WXJ52 162.475 AR Fayetteville, AR/MO/OK weather conditions, forecast for Fayetteville 280/451

7/20 Es

1418 CHMT 93.1 ON Timmins, "The Moose," Timmins area ads 805/1285  
1447 KKCT 97.5 ND Bismarck, "Hot 97-5," CHR, mixing with CBCE/WDLJ, local KWAP-LP off 760/1223  
1448 CBCE 97.5 ON Little Current, CBC mention, interview program, missing with KKCT/WDLJ, Ontario FM #15 660/1062  
1509 KBLB 93.3 MN Nisswa, "B-93.3," country 570/917  
1545 CKSB1 92.9 MB St. Rose du Lac, discussion in French 1010/1625  
1608 CHPO 93.1 MB Portage la Prairie, "Country 93," weather forecast, mention of the Portage Online website, country 850/1368  
1617 CBON26 90.3 ON Hearst, discussion in French 825/1328

I took three years away from FM DX due to some health issues and my antenna system being felled by high winds in April 2016. Most of my VHF/UHF activities were confined to DXing the NOAA Weather Radio bands and monitoring VHF/UHF public service communications. I added the Bearcat scanner in the summer of 2016. Three of my fellow Hams got me going again on June 29 by rebuilding my FM/TV antenna setup. The Channel Master CM-3020 is an excellent antenna for FM and TV DX. Making FM DXing more challenging is the increase in the number of FM translators, mainly for local AM stations or FM HD2 channels. The good news is that these signals are nullable. I must admit I haven't missed much in 2016, 2017 and 2018. The E-skip opening of July 20 was a pleasant surprise, reaching a MUF of 97.5 MHz. As of August 1, 2019, my FM total now stands at 1,326 and NOAA Weather Radio total is 129. 73 and good DX from NØUIH, the Florissant Valley Dial Twister.

.....  
[Fred Nordquist](#) – Moncks Corner, SC – FM03af - ELT

Sangean HDT-1X, AirSpy with latest version of SDR Console (v3.0.10), APS-13 antenna

6/23 Es 1146-1524 EDT GT/HN/VC/CM/CS/YC MUF: 107.7

1146 XHRUV 90.5 VC Xalapa-Enriquez, PI: 3FQ1 – 'KRUV,' PS: XHRUV-FM, SS, public 1410  
1403 XHPUGC 96.3 VC Ursulo Galvan Y Cardel, SS, "La Caliente" 1391  
1405 TGFM 94.9 GT Ciudad Guatemala, SS, "9-4-9 Radio" 1448  
1414 XHLL 90.1 VC Boca Del Rio, SS, "Fusion 91" 1393  
1417 TGER 96.1 GT Ciudad Guatemala, PI: FFFF, PS: MUNDO, SS, "Radio Nuevo Mundo" 1444  
1417 TGED 92.9 GT Ciudad Guatemala, PI: 2121 – 'KGMR,' PS: Radio Disney, SS, "Radio Disney" 1444  
1433 XHORA 99.3 VC Orizaba, SS, "Ori Stereo," local ad 1447  
1437 XHCS 103.7 VC Veracruz, SS, "Amor 103" 1391  
1447 R Ixtateca 99.5 GT San Mateo Ixtateca, SS, "Radio Ixtateca," religion 1390 (per Jim Thomas, this is Radio Ixtateca Luz Divina, a sanctioned religious broadcaster allowed by the SIT but they do not hold a license)  
1450 R Maranatha 106.7 CS Cristobal de la Casas, PI: A16B – 'KAED,' PS: MARANATHA, SS, has website 1355  
1458 XHMAB 101.3 CM Ciudad Del Carmen, PI: ---- - 'KWI,' PS: RETO FM, SS, "Retro FM" 1246  
1502 XHOT 97.7 VC Xalapa-Enriquez, PI: ---- - 'WOD,' SS, RT: XHOT-FM 1410  
1503 HRIS 94.7 HN Santa Rosa Copan, SS, "Envida FM," religion 1389 (Call info from Jim Thomas)  
1509 XHBD 104.9 VC Banderilla, PI: 1409 – 'KACV,' PS: EL PATRON, SS, "El Patron" 1409

1520 XHHTY 107.1 VC Martinez De La Torre, SS, "Le Mejor" 1401  
1728 XHPCHQ 91.3 QR Chetumal, PI: 0000, PS: HAAMIL, SS, "Haamil" 1138  
1817 WGTX 102.3 MA Truro, "The Dunes," local weather 812  
6/25 Es 1232-1252 EDT NL/TX MUF: 107.7  
1243 KPYM 106.1 TX Matagorda, SS, "La Nueva 106.1" 954  
7/2 Es 1932-2000 EDT MI/MN/WI MUF: 104.3  
1944 WUFN 96.7 MA Albion, Family Life Radio, religion 675  
7/3 Es 1752-1816 EDT NS/MA/ME/PE/NB/RI/CT MUF: 107.7  
1810 WPXC 102.9 MA Hyannis, PI: 7E9C, PS: Song/Artist, rock 786  
1814 WWRX 107.7 CT Stonington, PI: 9091, PS: 107.7 Jammin, "Jammin 107" 719  
1818 WOCN 104.7 MA Orleans, PI: 79E1, soft rock 803  
7/13 Es 1101-1216 EDT NS/NB/PE/ME/VT/MA/QC/NY MUF: 107.7  
1418 CKDY1 103.3 NS Weymouth, ID, weather 1075  
1419 CKQD1 103.7 PE Elmira, local ads, "105-5" 1309  
1420 CBZ 101.5 NB St. John, NY Metropolitan Opera 1157  
1459 CHHI 95.9 NB Miramichi City, PI: C477, PS: Song/Artist, "95-9 Sun FM" 1216  
1500 WRNM 91.7 ME Ellsworth, multi-station ID, "God's Country" 995  
1511 CKHZ 103.5 NS Halifax, PI: CCDB, country 1174  
7/17 Es 1101-1216 CY/DR/JM/MX/PR MUF: 107.9  
1107 WVID 90.3 PR Anasco, PI: FFFF, PS: VID903, SS, "VID 903" 1297  
7/20 Es 1032-1500 EDT TX/LA/NE/IA/IL/MN/SD/NS/AL/KS/MO/AR/CI/NL/OK/MS MUF: 107.9  
1039 KNCH 90.1 TX San Angelo, PI: 328F, PS: KNCH 1202  
1050 XHEMU 103.7 CI Piedras Negras, PI: A684 - 'WEMU,' PS: XHEMU-FM, SS 1253  
1301 KKMK 93.9 SD Rapid City, PI: 2BAA, adult hits 1454  
1327 WFFN 95.3 AL Coaling, PI: 626B, PS: The Bear, previous via Tr, new Es shortest distance record! 439  
1341 KPHR 106.3 MN Ortonville, PI: 3863, classic rock 1222  
1350 KIPI 93.5 SD Eagle Butte, PI: 9902 - 'WZXA,' PS: KIPI, rock 1394  
1354 KQSF 95.7 SD Dell Rapids, PI: 3C19, country 1162  
1400 KABD 107.7 SD Ipswich, PI: A11D, PS: Song/Artist, adult hits 1308  
1401 KQLX 106.1 ND Lisbon, ID, "Thunder 106-1" 1308  
1402 KMOM 105.5 SD Roscoe, ID 1308  
1403 KBFO 106.7 SD Aberdeen, PI: ---- - 'WYV,' PS: Song/Artist, adult hits 678  
1408 KPHA 91.7 ND Mandan, PI: 3852, religious talk 1430  
1412 KNBZ 97.7 SD Redfield, PI: 3287 1294  
1415 KGID 96.3 TX Giddings, PI: A2AB 1023  
1417 WKSO 97.3 MS Natchez, PI: 70F2, PS: KISS973, adult hits 678  
1418 KALD 91.9 TX Caldwell, PI: 1121 993  
1427 KBMQ 88.7 LA Monroe, ID 703  
1431 KPCH 99.3 LA Ruston, PI: 37D7 739  
1434 KYKX 105.7 TX Longview, PI: 507B, country 862  
1442 KBLZ 102.7 TX Winona, PI: 13DB, r&b 881  
1447 KKUS 104.1 TX Tyler, local ad 901

All new to log except WFFN 95.3 Coaling AL, which is now my shortest Es distance record (previously logged via tropo), plus many relogs. FM Log Total to date = 4018

.....  
**Glenn Hauser** – Enid, OK

Check out Glenn's detailed loggings on the WTFDA Forums at [forums.wtfda.org](http://forums.wtfda.org), click on VUD FM DX Reports.

# Northern FM DX



Keith McGinnis  
 Hingham, MA  
 longwave@comcast.net

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.

**EDITORS NOTE. PLEASE SUBMIT ALL REPORTS IN THE FORMAT SHOWN BELOW.**  
 All Submissions must be in to me by the 10<sup>th</sup> of each month.

**Rick Dau**  
 South Omaha, Nebraska  
 Grid EN21af

ICOM IC R-7000 receiver, MFJ-1714 2-meter "wand" antenna

August 7 2019 Tr

2157	KZRS	107.9	Great Bend	KS	Pop oldies, liner: "Old school 107.9, your home for the super hits"
2211	KVSV	105.5	Beloit	KS	Debby Boone's "You Light Up My Life", liner: "50 years of favorites...KVSV..."

**Russ Edmunds**  
 Blue Bell, PA  
 ( 15 mi NW of Philadelphia ) Grid FN20id

Equipment: 2) RSP1a SDR's, Yamaha T-80, Yamaha T-85, Onkyo TS450-RDS, all with APS9b

Time	CALL	FREQ	CITY	ST	RDS PI & PROG DETAILS	DIST
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July 8 2019 Es

17:21	KDIM	88.1	Coweta	OK	// KNYD-90.5	1172
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July 9 2019 Es

10:28	WFSU	88.9	Tallahassee	FL	RDS Capture 63C4	815
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10:28	WFSW	89.1	Panama City	FL	NPR, ID	902	
10:30	WGTF	89.5	Dothan	AL	RDS Capture	6673	838
10:33	WECQ	92.1	Destin	FL	RDS Capture	5F7C	915
10:36	WUWF	88.1	Pensacola	FL	RDS Capture	8BB9	941
10:46	WKSJ	94.9	Mobile	AL	RDS Capture	17ED	973
10:47	WEGS	91.7	Milton	FL	ID	934	
10:48	WZEW	92.1	Fairhope	AL	RDS Capture	972A	980
10:49	WPAS	89.1	Pascagoula	MS	RDS Capture	7C56	993
10:51	KZNA	90.5	Hill City	KS	High Plains Public Radio		1302
10:53	WMAU	88.9	Bude	MS	MPB Music Radio		1056
10:54	KPAQ	88.1	Plaquemines	LA	RDS Capture	0000	1131
10:57	WMPN	91.3	Jackson	MS	RDS Capture	75EB	986
10:59	unid	95.1			Country very strong o/WZZO, no RDS		
10:59	WQVI	90.5	Madison	MS	ID	956	
10:59	KMRL	91.9	Buras	LA	ID	1099	
11:00	WPCS	89.5	Pensacola	FL	ID	947	
11:00	KRLE	89.7	Carbon Hill	AL	RDS Capture	3E06	799
11:04	WAPR	88.3	Selma	AL	ID, Classical		844
11:04	WTIX	94.3	Galliano	LA	Classic rock, ID - New		1099
11:05	KGPQ	99.9	Monticello	AR	ID	1013	
11:06	WBSN	89.1	New Orleans	LA	RDS Capture	592D	1090
11:06	WTUL	91.5	New Orleans	LA	RDS Capture	88E7	1094
11:12	WOTB	88.7	Pearl River	LA	RDS Capture	7B8F	1054
11:12	KAVK	89.3	Many	LA	RDS Capture	122C	1131
11:12	WMBV	91.9	Dixon's Mills	LA	RDS Capture	7487	887
11:12	WZRH	92.3	LaPlace	LA	Rock, ID		1119
11:12	WGUO	94.9	Reserve	LA	ID	1104	
11:12	WZNF	95.3	Lumberton	MS	Rock, ID		1009
11:14	KYFL	89.5	Monroe	LA	RDS Capture	4FED	1072
11:14	KVCL	92.1	Winnfield	LA	ID	1119	
11:19	unid	95.9			Country: " I Thought About You"		
11:21	KGRM	91.5	Grambling	LA	RDS Capture	219E	1102
11:26	WCQC	91.3	Clarksdale	MS	RDS Capture	0000	945
11:27	WMAW	88.1	Meridian	MS	RDS Capture	75EB	920
11:31	KAKV	88.9	El Dorado	AR	RDS Capture	1119	1076
11:31	KAFX	95.5	Diboll	TX	ID	F000	1244
11:31	KBPA	103.5	San Marcos	TX	RDS Capture - New	142A	1449
11:32	WMAE	89.5	Booneville	MS	RDS Capture	745C	822
11:32	KTYL	93.1	Tyler	TX	ID	1221	
11:32	KYXA	106.7	Homer	LA	K-Love - only one in skip zone		1126
11:33	KTCS	99.9	Fort Smith	AR	ID	1116	
11:34	unid	95.3			Country: "Boot Scootin' Boogie" - Brooks & Dunn		
11:34	KFLO	89.1	Blanchard	LA	ID	1171	
11:34	WAOY	91.7	Gulfport	MS	RDS Capture	0000	1028
11:36	KTDY	99.9	Lafayette	LA	ID	1169	
11:39	KVNE	89.5	Tyler	TX	RDS Capture	48CA	1224
11:44	KCXY	95.3	East Camden	AR	C&W, local ads		1072
11:44	WHHM	107.7	Henderson	TN	RDS Capture	67E6	796

11:45	WRBO	103.5	Como	MS	RDS Capture	81B4	878	
11:59	KLRE	90.5	Little Rock	AR	ID	1009		
12:00	KLTY	94.9	Arlington	TX	RDS Capture	2F12	1318	
12:02	KUAR	89.1	Little Rock	AR	RDS Capture	44E1	1011	
12:02	KHKN	94.9	Maumelle	AR	RDS Capture	138D	1009	
12:04	KIPR	92.3	Pine Bluff	AR	Hip Hop, ID		1009	
12:11	KBIA	91.3	Columbia	MO	RDS Capture	1374	908	
12:13	KCMO	94.9	Shawnee	KS	RDS Capture	168E	1029	
12:16	KANU	91.5	Lawrence	KS	RDS Capture	1166	1066	
12:16	KTBT	92.1	Broken Arrow	OK	Rock, OK EAS Test		1159	
12:22	unid	88.9			Classical, not MPB, no RDS			
12:26	KJTY	88.1	Topeka	KS	RDS Capture	29CA	1068	
12:26	KHCD	89.5	Salina	KS	RDS Capture	22B3	1176	
12:28	WSIE	88.7	Edwardsville	IL	RDS Capture	8504	789	
12:28	WIPA	89.3	Pittsfield	IL	IL PR // WSIU		816	
12:28	KSIV	91.5	St. Louis	Mo	RDS Capture	406D	810	
12:28	WSIU	91.9	Carbondale	Il	RDS Capture	8514	768	
12:40	KRNW	88.9	Chillicothe	MO	Local events promo			968
12:40	KSRD	91.9	St. Joseph	MO	RDS Capture	4145	1045	
12:40	KMFC	92.1	Centralia	MO	RDS Capture	A334	899	
12:59	KTXK	91.5	Texarkana	TX	ID	1146		

July 13 2019 Es

15:11	WRFE	89.3	Chesterfield	SC	Rural sounding Gospel service - nothing else fits 450 in skip zone - New			
15:13	WRJA	88.1	Sumter	SC	RDS Capture	8276	513	
15:14	WUFT	89.1	Gainesville	FL	RDS Capture	8A0D	825	

July 14 2019 Es

10:00	KMOC	89.5	Wichita Falls	TX	RDS Capture	311E	1350	
10:13	KSQX	89.1	Springtown	TX	RDS Capture	413F	1334	
10:13	KMFA	89.5	Austin	TX	RDS Capture	3032	1435	
10:14	KVNE	89.5	Tyler	TX	RDS Capture	48CA	1224	
10:18	KLTY	94.9	Arlington	TX	RDS Capture	2F12	1318	
10:20	KTFW	92.1	Glen Rose	TX	RDS Capture	42C4	1374	
10:43	KNCT	91.3	Killeen	TX	Segued Pop instrumentals			1401
10:43	KRWR	92.1	Tyler	TX	Sports talk, "The Team"			1233
10:43	WACO	99.9	Waco	TX	ID	1372		
10:47	KUT	90.5	Austin	TX	RDS Capture	9995	1438	
20:04	WAYF	88.1	West Palm Beach	FL	RDS Capture	571D	978	

July 17 2019 Es

9:06	WAYJ	89.5	Naples	FL	ID	1037		
9:10	WJIS	88.1	Bradenton	FL	RDS Capture	6D4E	987	
9:10	WPOZ	88.3	Orlando	FL	RDS Capture	7DC9	868	

9:10	WFLJ	89.3	Frostproof	FL	RDS Capture	6303	939
9:10	WVUM	90.5	Coral Gables	FL	RDS Capture	8E30	1037
9:10	WLRN	91.3	Miami	FL	RDS Capture	737B	1018
9:13	WSCF	91.9	Vero Beach	FL	RDS Capture	8469	913
9:13	WZTU	94.9	Miami Beach	FL	SS talk, music, Miami mentions		1031
9:15	WMLV	89.7	Miami	FL	RDS Capture	758B	1052
9:17	WKIS	99.9	Boca Raton	FL	Country, local ads		1017
9:19	WAYF	88.1	West Palm Beach	FL	RDS Capture	571D	978
9:22	WMKL	91.9	Hammocks	FL	RDS Capture	7567	1043
9:43	WFIT	89.5	Melbourne	FL	RDS Capture	62BF	888
9:51	WPSF	91.5	Clewiston	FL	ID	982	

July 18 2019 Es

10:25	KRXO	107.7	Oklahoma City	OK	Sports talk, Big 12 FB		1256
17:12	KWGS	89.5	Tulsa	OK	RDS Capture	4AC6	1156
17:12	KUAF	91.3	Fayetteville	AR	RDS Capture	44D5	1061
17:15	KUAR	89.1	Little Rock	AR	RDS Capture	44E1	1011
17:15	KTFX	101.7	Warner	OK	Country, ID		1129
17:18	KOSU	91.7	Stillwater	OK	RDS Capture	36E0	1245
17:18	KASU	91.9	Jonesboro	AR	ID	887	
17:18	KTBT	92.1	Broken Arrow	OK	RDS Capture	1259	1159
17:19	KWEN	95.5	Tulsa	OK	Country, ad for Patriot Chevrolet in Bartlesville - New		1160
17:21	KAYH	89.3	Fayetteville	AR	RDS Capture	1277	1055
17:21	KNYD	90.5	Broken Arrow	OK	RDS Capture	34C7	1160
17:23	KWFC	89.1	Springfield	MO	RDS Capture	4A9C	994
17:23	KJTH	89.7	Ponca City	OK	RDS Capture	29B9	1229
17:27	KREK	104.9	Bristow	OK	SONLIFE		1189
17:28	KCKJ	89.5	Sarcoxie	MO	RDS Capture	1655	1024
17:30	KJLT	94.9	North Platte	NE	Contemporary Christian, ID		1338
17:35	KRIG	104.9	Nowata	OK	Ad for Roman's Chevy/GMC in Independence		
				KS		1130	
17:45	KHST	101.7	Lamar	MO	Promo for Crawford County ( KS ) Fair in Girard		
				KS		1038	
17:59	KYLF	88.9	Adrian	MO	Bott Net ID	1024	
17:59	KMUW	89.1	Wichita	KS	Promo for events at Bartlett Arboretum in Belle Plain		
						1198	
18:03	KBDD	91.9	Winfield	KS	SONLIFE Net		1180

July 20 2019 Es

12:26	W218BB	91.5	Okeechobee	FL	Moody net // WMBV-91.9 nothing else fits skip zone - New		948
12:26	WMBV	91.9	Dixon's Mills	AL	Moody Net		887
12:33	KMFA	89.5	Austin	TX	RDS Capture	3032	1435
12:33	KUT	90.5	Austin	TX	RDS Capture	9995	1438
12:40	KQSM	92.1	Fayetteville	AR	Sports talk, ID		1052
12:43	KSQX	89.1	Springtown	TX	RDS Capture	413F	1334

12:44	WSMR	89.1	Sarasota	FL	RDS Capture	8579	988	
12:45	WFSU	88.9	Tallahassee	FL	RDS Capture	63C4	815	
12:45	KNCT	91.3	Killeen	TX	RDS Capture	329B	1401	
12:50	WJIS	88.1	Bradenton	FL	Local PSA's		987	
12:50	KLTY	94.9	Arlington	TX	RDS Capture	2F12	1318	
12:53	WCTQ	92.1	Venice	FL	RDS Capture	13B2	987	
13:04	WZTU	94.9	Miami Beach	FL	RDS Capture	14F8	1031	
13:07	WBVM	90.5	Tampa	FL	RDS Capture	597A	939	
13:15	WYGC	104.9	High Springgs	FL	80's music, "Y-105", RDS	FFFF	823	
13:21	KOLI	94.9	Electra	TX	Country, ID		1368	
13:23	KVSP	103.5	Anadarko	OK	ID	1311		
13:25	WXGL	107.3	St. Petersburg	FL	RDS Capture	920B	936	
13:26	WCIE	91.5	New Port Richey	FL	RDS Capture	5AC4	922	
13:27	WFIT	89.5	Melbourne	FL	RDS Capture	62BF	888	
13:29	WMKO	91.7	Maro Island	FL	ID	1041		
13:32	KNGM	88.9	Guymon	OK	KJIL Net ID		1432	
13:32	KOSU	91.7	Stillwater	OK	RDS Capture	36E0	1245	
13:38	KQOU	89.1	Clinton	OK	OU promos		1330	
13:38	KJTH	89.7	Ponca City	OK	ID	1229		
13:38	KGVV	90.5	Goltry	OK	Discussion w/ GM of KJTH-89.7		1256	
13:41	KTBT	92.1	Broken Arrow	OK	ID	1159		
13:54	KKZU	101.7	Sayre	OK	Classic rock, ID - New+G45		1365	
13:55	KXML	95.1	Carthage	MO	RDS Capture	3211	1073	
13:55	KINZ	95.3	Humboldt	KS	ID	1095		
13:55	KTFX	101.7	Warner	OK	Classic Country, ID		1129	
13:58	KLSI	107.3	Moorhead	OK	ID - New		1334	
13:59	KWOU	88.1	Woodward	OK	OU ID	1334		
14:00	KYLF	88.9	Adrian	MO	Bott ID	1024		
14:00	KMUW	89.1	Wichita	KS	ID	1198		
14:00	KTOT	89.5	Spearman	TX	High Plains Public Broadcasting ID		New	
14:00	KAXR	91.3	Arkansas City	KS	ID	1184		
14:00	KARF	91.5	Independence	KS	Bott ID	1123		
14:00	KBDD	91.9	Winfield	KS	ID	1180		
14:00	KHMY	93.1	Pratt	KS	ID	1242		
14:00	KICT	95.1	Wichita	KS	Local ads, ID		1203	
14:04	KREJ	101.7	Medicine Lodge	KS	RDS Capture	3D55	1271	
14:11	KTHR	107.3	Wichita	KS	ID	1198		
14:14	KKGQ	92.3	Newton	KS	Country, ID		1191	
14:14	WTNT	94.9	Tallahassee	FL	Ad for Dale Earnhart Jr Chevrolet		831	
14:14	KEYN	103.7	Wichita	KS	ID	1203		
14:15	KFDI	101.3	Wichita	KS	ID	1203		
14:17	KCVW	94.3	Kingman	KS	Bott Net		1240	
14:18	KMOE	92.1	Butler	MO	Ad for Amsterdam Décor & More		1026	
14:18	KQLA	103.5	Ogden	KS	Country, ID		1134	
14:20	KDDD	95.3	Dumas	TX	ID	1475		
14:20	KXMO	95.3	Owensville	MO	Promo for Missouri State Fair		874	
14:20	KSMM	101.5	Liberal	KS	Mexican format under WKXW-NJ, presumed this as nothing else fits - New		1390	
14:22	KSKU	94.7	Sterling	KS	ID	1237		

14:22	KDKD	95.3	Clinton	MO	ID	998		
14:24	KPBR	91.7	Poplar Bluff	MO	Bott net - New	851		
14:26	KHCD	89.5	Salina	KS	RDS Capture 22B3	1176		
14:26	KANH	89.7	Emporia	KS	ID	1119		
14:26	KANU	91.5	Lawrence	KS	ID	1066		
14:28	KGLV	88.9	Manhattan	KS	K-Love; RDS Capture		210B	1106
14:28	KJCV	89.7	Country Club	MO	Bott Net	1087		
14:28	KBMP	90.5	Enterprise	KS	Bott Net	1176		
14:28	KSKG	99.9	Salina	KS	ID	1191		
14:29	KDJM	101.7	Lindsborg	KS	Classic Country, ID		1198	
14:30	KJTY	88.1	Topeka	KS	Family Life Radio		1068	
14:30	KANV	91.3	Olsberg	KS	KPR ID	1151		
14:30	KCVS	91.7	Salina	KS	ID	1198		
14:30	KWBI	91.9	Great Bend	KS	K-Love	1259		
14:38	KZUH	92.7	Minneapolis	KS	ID	1189		
14:45	KNCK	94.9	Concordia	KS	Ad for Scandia Antique Mall		1192	
14:47	KKDT	93.5	Burdett	KS	Country, station promo - New			1304
14:49	KREP	92.1	Belleville	KS	ID	1184		
14:50	KAHE	95.5	Dodge City	KS	Promo for "Rocking M Media", licensee of KAHE - New	1354		
14:50	KGOZ	101.7	Gallatin	MO	Country, ID	974		
14:58	WQCS	88.9	Fort Pierce	FL	RDS Capture 7F2E	925		
14:58	WLRN	91.3	Miami	FL	RDS Capture 737B	1018		
14:59	KZNA	90.5	Hill City	KS	High Plains Public Radio		1302	
15:02	KHNE	89.1	Hastings	NE	RDS Capture 23D2	1196		
15:02	KBBN	95.3	Broken Bow	NE	ID	1277		
15:11	KIWR	89.7	Council Bluffs	IA	ID	1087		
15:12	KMLV	88.1	Ralston	NE	K-Love	1087		
15:12	KRVN	93.1	Lexington	NE	Country, ID	1285		
15:20	KGKD	90.5	Columbia	NE	ID	1159		
15:22	KGOR	99.9	Omaha	NE	Local ads, weather		1089	
15:30	KRNE	91.5	Merriiman	NE	RDS Capture 3E3A	1378		
15:30	KPNE	91.7	North Platte	NE	// KRNE 91.5	1354		
15:30	KJLT	94.9	North Platte	Ne	ID into SRN News		1338	
15:38	KXNE	89.3	Norfolk	NE	RDS Capture 4E12	1150		
15:54	WGUO	94.9	Reserve	LA	Classic Country, ID		1104	
15:54	WKSJ	94.9	Mobile	AL	Country, ID	973		
15:54	KQKI	95.3	Bayou Vista	LA	RDS Capture 3B4C	1158		
15:55	KORN	92.1	Parkston	SD	ID	1200		
15:58	KTDV	91.9	State Center	IA	Cont Christian music, ID		934	
15:59	KMRL	91.9	Buras	LA	ID	1099		
16:00	KFHC	88.1	Ponca	NE	ID	1116		
16:00	KOIA	88.1	Storm Lake	IA	Echoing // KFHC	1034		
16:00	WPCS	89.5	Pensacola	FL	ID	947		
16:00	KUSD	89.7	Vermillion	SD	ID	1136		
16:00	KAYA	91.3	Hubbard	NE	ID	1111		
16:05	KPAQ	88.1	Plaquemines	MS	RDS Capture 0000	1131		
16:06	WZRH	92.3	LaPlace	LA	ID	1119		
16:07	WHMD	107.1	Hammond	LA	Country, ID	1078		

16:09	WTUL	91.5	New Orleans	LA	RDS Capture	88E7	1094	
16:09	WAOY	91.7	Gulfport	MS	RDS Capture	0000	1028	
16:10	WLXW	89.7	Waynesboro	MS	RDS Capture	7420	950	
16:10	WSLY	104.9	York	AI	Sports talk, SE focus		903	
16:11	WBSN	89.1	New Orleans	LA	RDS Capture	592D	1090	
16:15	WFFN	95.3	Coaling	AL	RDS Capture	626B	825	
16:16	WRKF	89.3	Baton Rouge	LA	RDS Capture	8295	1121	
16:17	KITA	89.5	Iota	LA	RDS Capture	270E	1194	
16:19	WMAU	88.9	Bude	MS	RDS Capture	75EB	1056	
16:19	WUAL	91.5	Tuscaloosa	AI	RDS Capture	8983	829	
16:19	KCKR	91.9	Church Point	LA	RDS Capture	165D	1162	
16:20	KRRQ	95.5	Lafayette	LA	Olinde's Furniture Going Out of Business sale - New		1166	
16:20	WQRR	101.7	Reform	AI	RDS Capture	A8B3	843	
16:22	WMAW	88.1	Meridian	MS	RDS Capture	75EB	920	
16:22	KBAN	91.5	DeRidder	LA	AFR - presumed this		1193	
16:22	KLXS	95.3	Pierre	SD	Weather		1309	
16:23	WMPN	91.3	Jackson	MS	RDS Capture	75EB	986	
16:24	WJLV	94.7	Jackson	MS	RDS Capture	6D9F	996	
16:25	KPCZ	106.7	Raynie	LA	Country, ID - New+G264			1175
16:26	KTSR	92.1	DeQuincy	LA	RDS Capture	4411	1223	
16:29	KZWA	104.9	Moss Bluff	LA	RDS Capture	5440	1206	
16:31	WLSM	107.1	Louisville	MS	RDS Capture	7394	902	
16:35	KQSD	91.9	Lowry	SD	RDS Capture	3C17	1297	
16:35	KLIL	92.1	Moreauville	LA	Promo for SW Louisiana Balloon Fest			
16:35	KQID	93.1	Alexandria	LA	local ads		1112	
16:37	WYFO	91.9	Lakeland	FL	BBN	924		
16:41	KLQP	92.1	Madison	MN	baseball, local ads			1112
16:44	WMBU	89.1	Forest	MS	Moody Net		951	
16:44	WWRA	91.9	Clinton	LA	R. Amor ID		1083	
16:46	KNSW	91.7	Worthington	MN	RDS Capture	343E	1088	
16:52	WBBN	95.9	Taylorville	MS	RDS Capture	5773	986	
16:55	KVNE	89.5	Tyler	TX	RDS Capture	48CA	1224	
16:56	KTXK	91.5	Texarkana	TX	ID		1146	
16:57	KRLE	89.7	Carbon Hill	AI	RDS Capture	3E06	799	
16:57	WKOR	94.9	Columbus	MS	Country, ID		852	
16:57	KT DY	99.9	Lafayette	LA	Promo, ID		1169	
16:58	KVCH	88.7	Huron	SD	ID		1208	
16:59	KESD	88.3	Brookings	SD	ID		1137	
16:59	WATU	89.3	Port Gibson	MS	ID - New		1024	
16:59	WYAZ	89.5	Yazoo City	MS	ID		958	
16:59	WSMS	99.9	Artesia	MS	ID		861	
17:01	KAYT	88.1	Jena	LA	ID		1131	
17:01	KLRJ	94.9	Aberdeen	SD	K-Love, also local ID			1220
17:08	WGTF	89.5	Dothan	AL	RDS Capture	6673	838	
17:18	WPAS	89.1	Pascagoula	MS	RDS Capture	7C56	993	
17:20	WZEW	92.1	Fairhope	AI	RDS Capture	972A	980	
17:21	WKSJ	94.9	Mobile	AL	RDS Capture	17ED	973	
17:23	WBPC	95.1	Ebro	FL	RDS Capture	58D4	897	

17:30 unid 91.7 2 men speaking in Spanish \

July 21 2019 Es

15:32	KTDY	99.9	Lafayette	LA	ID	1169	
15:35	WMAU	88.9	Bude	MS	RDS Capture	75EB	1056
15:35	WMPN	91.3	Jackson	MS	RDS Capture	75EB	986
15:42	KNTE	101.7	Bay City	TX	Spanish music, Houston ad		1417
15:49	KAKV	88.9	El Dorado	AR	RDS Capture	1119	1076
15:49	WMSB	88.9	Byhalia	MS	RDS Capture	762D	873
15:50	KYFL	89.5	Monroe	LA	RDS Capture	4FED	1072
15:51	KGRM	91.5	Grambling	LA	RDS Capture	219E	1102
16:02	KASU	91.9	Jonesboro	AR	NPR News, ID		887
16:02	KWCK	99.9	Searcy	AR	ID	964	
16:03	KTCS	99.9	Fort Smith	AR	ID	1116	
16:04	WZEW	92.1	Fairhope	AL	RDS Capture	972A	980
16:09	WRKF	89.3	Baton Rouge	LA	ID	1121	
16:10	KUAF	91.3	Fayetteville	AR	RDS Capture	44D5	1061
16:22	WALN	89.3	Carrolton	AL	RDS Capture	55D3	855
16:22	WGUE	94.9	Reserve	LA	ID	1104	
16:23	WRLD	95.3	Valley	AL	Classic Rock, ID		749
16:23	unid	95.3			Blondie- "Call Me"; Boston - "Peace of Mind"		
16:24	unid	91.5			Bott, nothing listed close to skip zone		
16:24	WOTB	88.7	Pearl River	LA	RDS Capture	7B8F	1054
16:24	KRLE	89.7	Carbon Hill	AL	RDS Capture	3E06	799
16:24	KQID	93.1	Alexandria	LA	RDS Capture	3B13	1112
16:25	WYOY	101.7	Gluckstadt	MS	RDS Capture	958C	986
16:25	KNEK	104.7	Washington	LA	ID - New		1160
16:25	KNXX	104.9	Donaldsonville	LA	Sports talk, ID	1124	
16:25	KYXA	106.7	Homer	LA	Air 1	1126	
16:25	WSTZ	106.7	Vicksburg	MS	Classic Rock, ID - New		1003
16:25	WLSM	107.1	Louisville	MS	RDS Capture	7394	902
16:25	WBRP	107.3	Baker	LA	RDS Capture - New	5915	1110
16:27	KISX	107.3	Whitehouse	TX	Local ad		1232
16:28	KVDU	104.1	Houma	LA	Classic Rock, ID		1119
16:30	KAYT	88.1	Jena	LA	Gospel, ID		1131
16:30	KWCV	88.9	Walnut Ridge	AR	Bott Net		918
16:30	WZRH	92.3	LaPlace	LA	ID	1119	
16:30	KQKI	95.3	Bayou Vista	LA	ID	1158	
16:30	WHMD	107.1	Hammond	LA	Country, ID		1078
16:32	WRKF	89.3	Baton Rouge	LA	RDS Capture	8295	1121
16:32	KMFC	92.1	Centralia	MO	RDS Capture	A334	899
16:32	KRRQ	95.5	Lafayette	LA	Hip Hop, local ad		1166
16:33	WMAE	89.5	Booneville	MS	RDS Capture	745C	822
16:34	KGPQ	99.9	Monticello	Ar	ID	1013	
16:42	KCXY	95.3	East Camden	AR	ID	1072	
16:42	WEBL	95.3	Coldwater	MS	ID	886	
16:42	WURN	107.1	Key Largo	FL	Spansih, "Exitos", Miami mentions		

16:43	KVLO	101.7	Humnoke	Ar	RDS Capture	48A0	982
16:44	KIPR	92.3	Pine Bluff	Ar	RDS Capture	26B7	1009
16:44	WJLV	94.7	Jackson	MS	K-Love	996	
16:44	WQNZ	95.1	Natchez	MS	Country, ID		1080
16:44	WBBN	95.9	Taylorsville	MS	Couonry, ID		986
16:46	KPAQ	88.1	Plaquemines	LA	RDS Capture	0000	1131
16:48	KHKN	94.9	Maumelle	Ar	RDS Capture	138D	1009
16:48	KYDA	101.7	Azle	TX	Air 1	1262	
16:52	KHPQ	92.1	Clinton	AR	RDS Capture	2412	958
17:11	KIXB	103.3	El Dorado	AR	RDS Capture	2777	1086
17:41	WLRN	91.3	Miami	FL	RDS Capture	737B	1018
17:41	WZTU	94.9	Miami Beach	FL	Spanish ID		1031
17:42	KZMP	104.9	Pilot Point	TX	Asian language, 972 Area Code on call-in number 1278		
18:08	KVNE	89.5	Tyler	TX	ID	1224	
18:17	WCTQ	92.1	Venice	FL	RDS Capture	13B2	987
19:47	KALD	91.9	Caldwell	TX	RDS Capture	1121	1367
20:03	KAVK	89.3	Many	LA	RDS Capture	122C	1131

July 22 2019 Es

16:42	KITA	89.5	Iota	LA	RDS Capture	270E	1194
16:43	WMPN	91.3	Jackson	MS	RDS Capture	75EB	986
17:03	KAVK	89.3	Many	LA	RDS Capture	122C	1131
17:04	KJGM	88.3	Bastrop	LA	SONLIFE Net		1057
17:04	KQID	93.1	Alexandria	LA	Hip Hop, ID		1112
17:07	KYFL	89.5	Monroe	LA	RDS Capture	4FED	1072

July 25 2019 Es

19:07	WJLN	88.7	White Springs	FL	Gospel chorus - presumed based on skip zone	802	
19:07	WGCN	90.5	Nashville	GA	Spanish music, announcer - presumed this based on skip zone	768	
19:09	WXHT	102.7	Madison	FL	RDS Capture	922D	801
19:10	WVKV	95.3	Nashville	GA	RDS Capture	8D35	768
19:11	WFSU	88.9	Tallahassee	FL	RDS Capture	63C4	815
19:11	WGLF	104.1	Tallahassee	FL	RDS Capture - New	65A3	830
19:15	WAYT	88.1	Thomasville	GA	RDS Capture	572B	816
19:18	WWRM	94.9	Tampa	FL	Weather from "Newsradio 100.7 WFLA"		
19:26	WVFS	89.7	Tallahassee	FL	Electronic music, "V-89"		840
19:31	WMOC	88.7	Lumber City	GA	ID in pledge announcement		702
19:31	WOLR	91.3	Lake City	FL	RDS Capture	973F	816
19:31	WAFZ	92.1	Immokalee	FL	Mexican music - presumed this		1007
19:33	WUFT	89.1	Gainesville	FL	RDS Capture	8A0D	825
19:33	WNFK	92.1	Perry	FL	Classic Rock, ID		835
19:33	WSGA	92.3	Hinesville	GA	Promo for Blueberry Hill RV Park		676
19:33	WFDZ	93.5	Perry	FL	Country, ID - New		835
19:33	WYUM	101.7	Mt. Vernon	GA	RDS Capture	961C	677



# **SIGN UP & Renewal Form**

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