

There is nothing wrong with your PC. We control the horizontal and the vertical. Do not call the station.

November 2024 #1

What a long, strange trip it's been. From starting out back in 2001 as a VUD publisher because no one else wanted the job, then learning as I went until I sort of got it right, then phasing out the paper VUD because it was just way too much work, handing the editor's job over to Ryan Grabow for a couple of years and then getting it back again and then taking the eVUD through July 2023 and then making the mistake of thinking that doing the VUD inside Wordpress was a great idea and finding out that it wasn't and then retiring the VUD name once and for all and going to a newsletter and then turning it back into a pdf publication, I just get tired thinking about it. Once upon a time I was young. 24 years just flew by. Many of you know that feeling.

And all of that leads us to the survey that 139 of you filled out. That's 54% of the club. I'm literally amazed how many of you took the time to answer the questions and comment on them. The results of the survey are 14 pages long, much too long for this newsletter. They will have to be emailed to each one of you separately.



Happy belated Thanksgiving day to all of our members in Canada. Canada's Thanksgiving day was on Monday, October 13th. I hope you all had a great day.

Thanksgiving in the US is on Thursday, November 28th. We wish all of our members in the states a Happy Thanksgiving!

WEBSITE CHANGES. After reading some of the survey responses, I created a links page. Most of the links there are the links most important to TV and FM Dxsers. For example, someone asked about an early warning system for FM. A number of people get them from DXMaps but not everyone knows about them. The link is there now. I would suggest that you head over there and see what's there. If there is something important that isn't there, let me know and I'll put it there. You'll also find links to both TV and FM autologgers, which is something another member asked about. Hopefully you'll find something that you didn't know about.

WHO STOLE OUR TRANSMITTER? Noticed on the fcc.today website recently: On September 25, 2024 the W229BU transmitter was discovered missing. Covenant Network is now taking steps to replace the missing equipment and return W229BU to the air. Quincy, IL 93.7. Now you know why W229BU is silent.

METEOR SHOWER DX. Bill Nollman posted on groups.io: **This is a great web site for showing the estimated times and direction for the visual portion of a meteor shower and the table below comes from here.**

https://www.timeanddate.com/astronomy/meteor-shower/orionid.html#tb-meteor_times

My question, would the best reception be when pointing the antenna at the Azimuth in the table at that particular hour? If I set an SDR recording to run overnight and the antenna at 90 degrees would it be better to wake up every few hours to change the antenna azimuth? Bonus question, if there a web site that does a table like this for daylight hours? This one is clearly only interested in visual times. -Bill

And Les Rayburn came to the rescue with this answer. The best tool for this job is a piece of software called "Virgo." There is a stand-alone version that runs on your desktop. Enter your maidenhead grid square in six digits, and the software will display all meteor showers currently above the horizon (regardless of day or night) and show you where to point your antenna. It was specifically designed for forward meteor scatter communications.

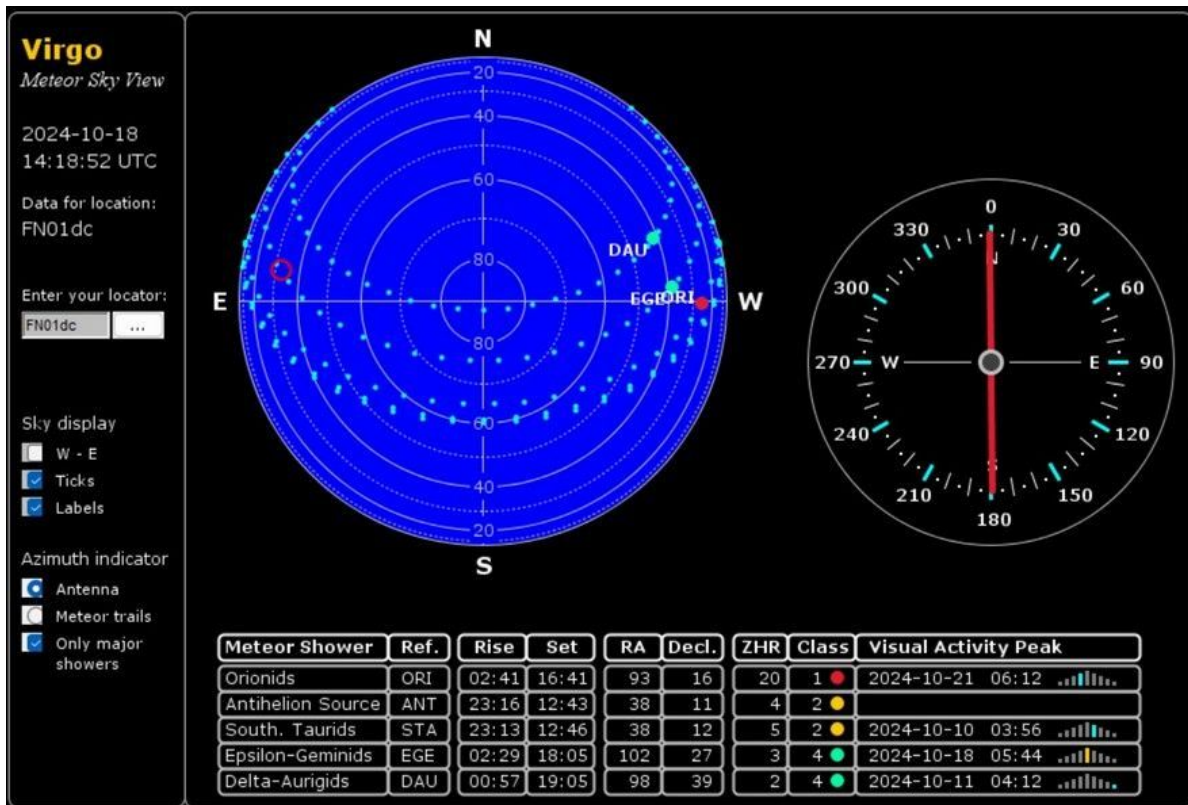
<https://www.dl1dbc.net/Meteorscatter/>

As a ham, it was invaluable in earning 2 Meter VUCC using indoor antennas and low power. As an FM DXer, it's been a great tool for logging Ms despite a high noise level here.

Bill replies: Les, I got Virgo running rather easily. Thank you! Can you explain to me the "point your antenna perpendicular to the trail theory"? Maybe it will make more sense to me when Orionids is higher in the sky tonight.

I was up early to watch the ISS pass by. That never gets old. So here's the Virgo display at 6am today. Please confirm that even though the place to look for the meteor shower is about 190 degrees south, the place to aim the antenna is about 100 degrees east? Or would it be 280 degrees west? Or it could be both? I will have 2 antennas for phasing and could do SDR captures in 2 directions. Just want to be sure.

Les replies: Entire books have been written on this subject. But to summarize, think in three dimensions. Ms is simple once you understand that's all geometry. The angle of incidence equals the angle of reflection.



LAST BUT NOT LEAST. Here we are. No login needed. Next month we'll begin commenting on your survey comments. Stay tuned for that, and I hope some of you will be glad to see the following pages back again.
-Mike



Russ Dwarshuis, KB8U has done it again. He has written new a new firmware update for the TEF6686t that will allow the receiver to automatically scan the FM band looking for RDS signals and report these to the Rabbit Ears Autologger. Russ, Patrick Martin, and myself have been beta testing the firmware for a few weeks and have all been pleased with the results. The TEF6686 is a very sensitive receiver with excellent RDS detection, on par with the AirSpy HF+ Discovery. The new firmware offers the possibility of having a logging receiver without the need for a computer. The receivers are roughly 1/3 the cost of an AirSpy SDR, so you can afford to have multiple receivers running. The TEF6686 has already put several new stations in my log and it's lighting fast RDS decodes are well suited to meteor scatter. If you are interested in participating in the Beta Test, you must first download the latest firmware. As of October 10, 2024, the latest version is V2.11.5 and it can be downloaded at: <https://discord.com/channels/1053804249651359765/1130440813302784031> After that, you'll need to contact me to obtain your USER ID for Rabbit Ears and get more detailed instructions on how to connect to the receivers internal Wi-Fi network long enough to update some settings and then connect to your home Wi-Fi network for reporting. **Contact me via email at: n1lf.sec@gmail.com** Russ is also experimenting with adding an external Wi-Fi antenna to the TEF6686, increasing the range. This might allow for receivers to be mounted in weatherproof enclosures near the antenna to reduce coax loss.

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FIRST REPORT AND ORDER

Adopted: September 24, 2024 Released: September 25, 2024

By the Commission:

I. INTRODUCTION

1. In this First Report and Order (First R&O), we adopt the proposals set forth in the Order and Notice of Proposed Rulemaking in this proceeding that pertain to digital FM station operation with asymmetric power on the digital sidebands.¹ This asymmetric sideband operation will allow stations to operate with different power levels on the upper and lower digital sidebands, as a way to facilitate greater digital FM radio coverage without interfering with adjacent-channel FM stations.

2. In a 2022 Public Notice, the Media Bureau (Bureau) consolidated into one rulemaking proceeding two separate Petitions for Rulemaking, both proposing changes to the rules that the petitioners urged would improve digital FM signal quality and minimize the effect of the digital FM station signal on adjacent channel FM transmissions.³ In the first petition, filed December 9, 2019, petitioners National Association of Broadcasters (NAB), Xperi Corporation (Xperi), and National Public Radio (NPR) (collectively Asymmetric Petitioners), requested blanket authorization to set digital power at different levels on each digital sideband, thus allowing a digital FM station to protect, for example, an analog FM station on a lower first-adjacent channel, while enabling an increase in digital power on the upper sideband where there is no adjacent analog FM station or a more distant adjacent station.⁴ In the second petition, filed October 26, 2022, NAB and Xperi requested that the FCC update the methodology stations use to determine maximum FM digital power levels.⁵ In the NPRM, the Commission granted these petitions and sought comment on whether the rule changes proposed by the petitioners would serve the public interest, by providing FM digital stations with the ability to increase power and, concomitantly, increase coverage area, building penetration, and provide a more robust digital signal. The Commission additionally sought comment on: whether such rule changes would cause or increase interference to analog FM stations adjacent to a digital FM station; whether the proposed rule changes would have other adverse effects on incumbent FM stations; whether and to whom notice of increased digital FM power should be provided; and whether additional interference remediation procedures should be introduced.

3. Broadcasters, engineers, and listeners filed comments and reply comments in response to the NPRM. Additionally, commenters such as the Aerospace Industries Association; Air Line Pilots Association, International; Garmin International, Inc.; and the General Aviation Manufacturers Association filed comments expressing concern about higher digital power levels at the upper end of the FM broadcast band causing interference to users in the adjacent Aeronautical Radio Navigation Spectrum (ARNS), from 108.0 – 117.95 MHz.⁷ The commenters state that preliminary industry studies suggest that further testing is needed; to that end, aviation industry commenters are working with NAB and Xperi, but state that comprehensive testing will take additional time.⁸ Accordingly, in the interest of a complete record, we defer action on the proposal relating to maximum FM digital power levels, and act only on the proposals relating to the Asymmetric Sideband Petition at this time, with appropriate safeguards for stations on Channels 296 – 300.

II. BACKGROUND

4. The FM digital radio system inserts redundant digital sidebands above and below a station's existing analog signal. The Commission's existing rules assume that digital power is the same on both digital

sidebands, i.e., symmetric sideband operation.⁹ Currently, an FM station that wishes to employ asymmetric sideband operation, using different power on each digital sideband, must apply for an experimental authorization and renew that authorization annually.¹⁰ NAB, Xperi, and NPR, in the Asymmetric Sideband Petition, assert that with asymmetric sidebands a digital FM station can limit the power of one digital sideband to protect the adjacent analog FM station on that side while concurrently increasing the power of the other sideband in order to expand its overall digital coverage and improve its building penetration.¹¹ The Asymmetric Petitioners conducted a study that they state demonstrates that many more digital FM stations could increase power on at least one sideband above the current limit of -14 dBc.¹² Out of 10,875 digital FM stations studied, petitioners contend that 6,120 could increase power on both sidebands to -10 dBc under the current rules,¹³ whereas if asymmetric sidebands were allowed, an additional 3,496 stations could increase one sideband to -10 dBc, with another 532 being able to increase one sideband's power to between -14 and -10 dBc.¹⁴ Asymmetric Petitioners also argue that the need to request experimental authorization, and the temporary nature of such authorizations, discourages use of asymmetric sidebands,¹⁵ which in turn limits digital FM stations to the power level needed to protect the adjacent-channel analog FM station that is most susceptible to digital interference. The Asymmetric Petitioners thus request that we amend our rules to allow FM stations to operate with asymmetric digital sidebands, without having to request experimental authorization to do so, in order to remove unnecessary regulatory barriers and promote broader adoption of terrestrial digital FM broadcasting.

III. DISCUSSION

5. We conclude that the record contains considerable support for asymmetric sideband operation, and thus we adopt the relevant proposals set forth in the NPRM, with some modifications to the rules that were proposed. We therefore authorize digital FM stations, except stations operating on Channels 296 - 300,¹⁹ to originate digital transmissions at different power levels on the upper and lower digital sidebands without having to request experimental authorization, consistent with the requirements set forth herein. As further discussed below, a digital FM station need only notify us of asymmetric sideband operation by filing notification on Form 2100, Schedule 335-FM – FM Digital Notification (Schedule 335-FM) in the Bureau's Licensing and Management System (LMS) database.

6. Asymmetric Sideband Operation Authorization. We agree with the commenters and find that asymmetric sidebands will promote the adoption of digital radio without increasing the risk of interference to existing analog broadcasts. Those commenters that addressed this proposal generally support it. Some express approval of the proposal as being an affirmative step toward broader adoption of digital radio, with some specifically stating that eliminating the need for prior experimental authorization will encourage more stations to adopt FM digital operation. Many commenters opine that asymmetric operation will reduce interference to adjacent-channel analog FM stations, with some offering anecdotal or experimental evidence to support these claims. For example, three of the joint NCE commenters report that they have operated for several years under experimental asymmetric sideband operation authority, "without any interference issues at all," and further that the University of Central Florida's WUCF-FM, after five years of such operation, commissioned a study as part of its license renewal showing "significant HD reception benefits to the public from its asymmetrical sideband operations." Our current policy requiring the same power on both the upper and lower digital sidebands limits an FM station's digital power to that needed to protect the adjacent-channel analog FM station most susceptible to interference, regardless of whether there is a need to limit power on the other sideband.

Asymmetric Petitioners contend, and commenters agree, that allowing calculation of the maximum allowable digital FM power on a per-sideband basis allows such stations to optimize their digital signal coverage while still protecting analog FM stations on adjacent channels. We agree and, based on the record presented, we find that it is in the public interest to allow asymmetric sideband operation, except on Channels 296 - 300, without the need for an experimental authorization.

**Media Bureau Announces Federal Register Publication of First Report and Order
in *Modifying Rules for FM Terrestrial Digital Audio Broadcasting Systems***

MB Docket No. 22-405

On September 25, 2024, the Commission released a *First Report and Order* in this proceeding to allow digital FM radio stations to adopt asymmetric sidebands by notification to the Commission.¹

By this *Public Notice*, the Media Bureau announces that the *FM Digital First R&O* was published in the *Federal Register* on October 21, 2024,² and the *FM Digital First R&O* becomes effective 30 days thereafter, on November 20, 2024. The Bureau notes, however, that only the changes to section 73.310(a) – (b) of the Commission’s rules,³ adding paragraph numbers to the list of definitions in that rule to conform to the publishing conventions of the National Archives and Records Administration’s Office of the Federal Register, and the addition of section 73.402(i),⁴ adding a definition for “asymmetric sideband operation,” will become effective on November 20, 2024.⁵ Changes to the other rules adopted in the *FM Digital First R&O*, specifically changes to sections 73.404 and 73.406,⁶ which contain new or modified information collection requirements that require approval by the Office of Management and Budget under the Paperwork Reduction Act, will become effective on the date specified in a notice published at a later date in the *Federal Register* announcing such approval. The Media Bureau will release a *Public Notice* at that time announcing the effective date of the remaining rule changes.⁷

¹ *Modifying Rules for FM Terrestrial Digital Audio Broadcasting Systems*, MB Docket No. 22-405, First Report and Order, FCC 24-105 (rel. Sept. 25, 2024) (*FM Digital First R&O*).

² *Modifying Rules for FM Terrestrial Digital Audio Broadcasting Systems*, 89 Fed. Reg. 84096 (Oct. 21, 2024).

³ 47 CFR § 73.310(a) – (b).

⁴ 47 CFR § 73.402(i).

⁵ *FM Digital First R&O* at 11, para. 26.

⁶ 47 CFR §§ 73.404, 73.406.

⁷ *Id.*

FACILITIES GRANTS AND ACTIONS

From fcc.today and the FCC

KYUK-FM	90.3	Bethel	AK	Mod raise power to 1.4kw@51m from 385w@23m
W259DK	99.3	Vallely Head	AL	Silent 7/25, first had xmtr trouble, later lost xmtr site and has to move
W278CH	103.5	Killen	AL	250w-H only, was H+V
KIYS	97.9	Jonesboro	AR	resumed operations, was silent
DKPGC-LP	95.1	Norman	AR	facility has been canceled
KAWX	89.3	Mena	AR	Silent 9/30 construction at site
K255BH	98.9	Glenwood	AR	resumed operations - was silent
K300DJ	107.9	Glenwood	AR	resumed operations - was silent
KOSE-FM	107.3	Osceola	AR	resumed operations, was silent
KDHP	91.9	Pinon	AZ	mod, 16kw at 527m, 36-21-08/109-49-59
KTHO	104.3	Deey-Humboldt	AZ	initial calls for new station
KLYN	91.3	Quartzsite	AZ	initial calls for new station
KXKB	90.7	Salome	AZ	2.5KW-H at 11m up from 470w H&V
KFBG	100.7	San Diego	CA	26kw@209m, 32-50-17/117-15-00
K201JE	88.1	Richvale	CA	went silent 10/15 with technical problems. Facility upgraded.
K267BA	101.3	Ukiah	CA	mod, power from 55w to 10w, same location as K267BA
K256BV	99.1	Ukiah	CA	mod, COL from Copland, pwr from 110w to 10w,
KQED-FM5	88.5	San Francisco	CA	cp, 300w, location is really Pittsburg directional east into P'burg
K212FA	90.3	Temple City	CA	mod, goes to 99w-H only, was 10w H+V
NEW	91.1	Boron	CA	new CP, 5kw@317m, 35-21-46/117-38-27
NEW	91.1	Desert Creek	CA	new CP 100w@-130m, 33-43-11/115-23-45
KIND-LP	94.1	Oxnard	CA	ERP from 50w to 100w now Horiz and Vert
NEW	90.9	Doyle	CA	4w-Horiz only, 40-07-00/120-19-03
KSAK	90.1	Walnut	CA	resumed operations, was silent
K249FL	107.7	San Luis Obispo	CA	200w, 35-30-19/120-37-22
KLDI-LP	95.7	Lodi	CA	Silent 9/21/24, they are relocating their tower
KIND-LP	94.1	Oxnard	CA	Silent 7/13/24, tower demolished
KORM-LP	101.5	Corona	CA	Resumed operations - was silent
KCPS-LP	98.1	El Dorado Hills	CA	raised ERP from 50w to 100w
K233CH	94.5	Greelely	CO	Resumed operations - was silent
WDRD-LP	99.9	Tampa	FL	100w@28m, 27-56-10/82-18-13
WJZX-LP	94.5	Crestview	FL	initial calls for new station
NEW	90.9	Key West	FL	new cp, 390w at 32m, 24-34-02/81-47-56
W213BQ	90.5	Naples	FL	Silent 9/19 with transmitter problems

WTMG	101.3	Williston	FL	Silent 9/27/24 Hurricane Helene damage
WFCT	105.5	Apalachicola	FL	resumed operations, was silent
WOKA-FM	106.7	Douglas	GA	resume operations, was silent
WLCZ	98.7	Lincolnton	GA	resumed operations, was silent
W292FQ	106.3	Douglas	GA	Silent 9/27 Hurricane Helena damage
WPRW-FM	107.7	Martinez	GA	resumed operations, was silent
W273CT	102.5	Canton	GA	resumed operations, was silent
WPRW-FM	107.7	Martinez	GA	Silent 9/26, TS Helene damage
WTHB-FM	96.9	Wrens	GA	Silent 9/27/24 Hurricane Helene damage
W232DA	100.7	St. Marys	GA	250w, slight coordinate change
WWAD	88.5	Carol Stream	IL	100w@33m, 41-56-14/88-07-29
W229BU	93.7	Quincy	IL	Silent 9/25, transmitter was stolen!
WHLF-LP	95.7	Champaign	IL	Silent, corporation is dissolving and station is off
NEW	92.5	Morehead	KY	new CP, 100w@-18m
WNKV	91.1	Norco	LA	resumed operations, was silent
K240EY	95.9	Nachitoches	LA	Silent 8/28, their primary KNOC 1450 is silent
KNSU	91.5	Thibodaux	LA	Resumed operations - was silent
WSDH	91.5	Sandwich	MA	resumed operations, was silent
W261AE	100.1	Chesterville	MD	mod, coord change only to 39-05-05/75-58-47
WKTT-FM1	97.5	Princess Anne	MD	200w, 38-13-22/75-41-41
WKTT-FM2	97.5	Princess Anne	MD	100w, same coord as FM1
WKTT-FM3	97.5	Princess Anne	MD	30w, 38-10-17/75-41-16
WKTT-FM4	97.5	Princess Anne	MD	200w, same coord as FM3
WBEO	91.3	Bethel	ME	initial calls for new station
WBEM	90.7	Eastport	ME	initial calls for new station
WFAS	88.7	Fort Fairfield	ME	initial calls for new station
WBSJ	88.3	Frenchville	ME	initial calls for new station
WBSP	90.1	Millinocket	ME	initial calls for new station
WBSQ	91.1	Monson	ME	initial calls for new station
WMHD	89.7	Greenville	ME	initial calls for new station
W252DS	98.3	Rumford	ME	Silent 10/30 tower to be demolished, 180 day STA
WLFN	88.9	Flint	MI	call change from WKVR
W258AH	99.5	Kalamazoo	MI	Silent 9/5 transposer failure
W264DQ	100.7	Cadillac	MI	250w, slight coordinate change
KVCS	89.1	Spring Valley	MN	resumed operations, was silent
KMSU-LP	107.9	Mankato	MN	callsign for new station
K204FX	88.7	Mountain	MO	resumed operations, was silent

		Grove		
KOTC-LP	98.7	Jefferson City	MO	resumed operations, was silent
KGSP	90.5	Parkville	MO	Silent 9/17 antenna removed due to roof repairs
K234CE	94.7	Sedalia	MO	mod, 250w, 38-44-03/93-13-32
KUMB	89.7	Hollywood	MS	resumed operations - was silent (yes, KUMB)
WBKM	96.7	Columbia	MS	Silent 9/3, moving tower to new site
KBWG	89.7	Browning	MT	initial calls for new station
WGTI	97.7	Winfell	NC	resumed operations, was silent
W271DR	102.1	Fayetteville	NC	resumed operations, was silent
W287CD	105.3	Franklin	NC	resumed operations, was silent
W218AB	91.5	Sylva	NC	10 watts, 35-22-03/83-13-17
W297CM	107.3	Sparta	NC	resumed operations, was silent
KIOR-LP	98.1	Omaha	NE	mod, ERP 12w@83m from 23w@59m, move coordinates
NEW	95.9	Bayard	NE	new CP, 250w 15m, 41-45-39/103-19-14
K257GW	99.3	Springfield	NE	Silent 9/27 for equipment installation
W237EH	95.3	Pennsauken	NJ	resumed operations, was silent
W237EH	95.3	Pennsauken	NJ	silent 10/4, transmitter failed and they can't find a spare.
KEPS	95.9	Skyline-Ganipa	NM	ERP from 350w to 125w@-85m
NEW	106.3	Gallup	NM	new cp, 100w, 35-31-24/108-44-18
KNVM-LP	105.3	Mesquite	NV	initial calls for new station
KODD	90.9	Bullhead City	NV	initial calls for new station
W292FV	106.3	New York	NY	.5w(?), 40-52-48/73-52-37
WSPJ-LP	103.3	Syracuse	NY	resumed operations, was silent
WTBD-FM	97.5	Delhi	NY	resumed operations, was silent
WDHI	100.3	Delhi	NY	resumed operations, was silent
WIYN	94.7	Deposit	NY	resumed operations, was silent
W296EK	107.1	Brentwood	NY	resumed operations, was silent
W213CH	90.5	Plattsburgh	NY	moved from 89.1 (W206AQ)
W229CU	93.7	Syracuse	NY	resumed operations, was silent
W292FV	106.3	New York	NY	resumed operations, was silent
WKVR	102.5	Baltimore	OH	changed calls from WWLG
WWLA	103.1	Johnstown	OH	call change from WKVO-FM
WCMO	98.5	Marietta	OH	license canceled pending licensing of WCMO-LP 97.5
WLPK	91.9	Belpie	OH	Resumed operations - was silent
W231CQ	94.1	Athens	OH	Resumed operations - was silent
K214FR	91.1	Island City	OR	Mod, 115w-V only, 45-17-57/118-05-09
K218AZ	91.5	The Dalles	OR	resumed operations, was silent

KRVN-FM	91.1	Brightwood	OR	initial calls for new station
KMCQ-LP	94.3	Salem	OR	ERP from 100w down to 7w@110m
K256AC	99.1	The Dalles	OR	250w, 45-37-11/121-06-03
KDGT-LP	102.7	Gaston	OR	calls for new station
K223CV	92.5	Albany	OR	Resumed operations, was silent
WJLW-LP	100.3	Greensburg	PA	license canceled, has new WLWG 91.7 on the air now
WVY	100.1	Lebanon	PA	mod, raise ERP to 1.85kw@182m from 1.55kw@148m
WTLR	89.9	State College	PA	ERP from 23kw down to 12kw@279m
W279EM	103.7	Scranton	PA	138w, slight coordinate change
WXEV	91.1	Bradford	RI	from 430w down to 180w@29m
W221EK	92.1	Greenville	SC	Silent 9/27 antenna damaged by Helene, WCSZ 1070 (Pri.) has no power
W235BM	94.9	Mauldin	SC	silent 9/27 Hurricane Helene related, flooding at primary WCSZ
WRZE	94.1	Kingstree	SC	resumed operations, was silent
WROO	104.9	Mauldin	SC	resumed operations, was silent
WZTF	102.9	Scranton	SC	resumed operations, was silent
WKSP	96.3	Aiken	SC	Silent 9/26, TS Helene damage
WRZE	94.1	Kingstree	SC	Silent 9/26, TS Helene damage
WROO	104.9	Mauldin	SC	Silent 9/26, TS Helene damage
WZTF	102.9	Scranton	SC	Silent 9/26, TS Helene damage
k251BH	98.1	Sioux Falls	SD	250w, slight coordinate change
WWAI	94.9	Bartlett	TB	changed from WKVF
WKVF	94.1	Germantown	TN	changed from WMLE
W210BE	89.9	Waynesboro	TN	Silent 9/30 must relocate transmitter
W300DO	107.9	Smyrna	TN	250w vertical only
WFFI	93.7	Kingston Springs	TN	changed calls to WFRW
KCBG	89.9	Fulton	TX	8.3k@32m, 28-10-09/96-59-53
KOUI	88.3	Mount Pleasant	TX	Silent 9/29, lost transmitter site
K224FC	92.7	El Paso	TX	resumed operations, was silent
KPIT	91.7	Pittsburg	TX	Silent 1/9 for transmitter/antenna repairs, extended STA
K280GV	103.9	Atlanta	TX	resumed operations, was silent
K238BF	95.5	Atlanta	TX	resumed operations, was silent
KXAV	98.7	Hebbronville	TX	changed from KOTX
NEW	91.9	Waco	TX	COL changed to Waco, from 89w down to 64w@38m
KWWD	91.9	Canadian	TX	moves from 91.3
K246CR	97.1	Texarkana	TX	resumed operations, was silent
KTLL-LP	95.7	Ferrell	TX	calls for new station

KTYR	89.7	Trinity	TX	Silent 9/1, transmitter damaged in storm
KHMR	104.3	Lovelady	TX	resumed operations, was silent
KQUT-LP	100.3	St. George	UT	resumed operations, was silent
KWBR-LP	105.7	St. George	UT	resumed operations, was silent
NEW	88.5	Moroni	UT	new CP, 3kw@655m, 39-45-36/111-34-41
KUTU	91.3	Santa Clara	UT	resumed operations, was silent
KIYO	88.1	St. Mary	UT	initial calls for new station
K207FL	89.3	Spanish Fork	UT	moves from 89.5 (K208BZ)
KADD-FM8	93.5	St. George	UT	new CP, 2.5kw, 37-05-04/113-36-34
KADD-FM6	93.5	St. George	UT	raise ERP to 4kw from 1.5kw
W269DH	101.7	Leesburg	VA	mod, drop power to 13w from 220w
WUDS-LP	94.9	Woodstock	VA	resumed operations, was silent
WDIC-FM	92.1	Clinchco	VA	Silent 2/29, financial probs, STA extended
W204CW	88.7	Burlington	VT	mod, 30w, 44-30-34/73-10-58
W252CJ	98.3	Burlington	VT	Resumed operations - was silent
KWJZ-LP	107.3	Snohomish	WA	.55w@41m, 47-54-52/122-02-13
NEW	102.3	Eastsound	WA	New CP, 100w/-23m, 48-41-48/122-54-24
KVRY	89.1	Packwood	WA	initial calls for new station
NEW	89.7	Conrad	WA	1.5kw 51m, 48-07-50/111-55-11
K249CV	97.7	Owek	WA	ERP From 48w-vert to 26w-vert, no horiz.
W239CM	95.7	Morgantown	WV	250w, slight coordinate change
KUWO	89.7	Ranchester	WY	initial calls for new station
K213EL	90.5	Laramie	WY	power increase from 25w to 250w

FORMATS/BRANDING

KKDG	99.7	Durango	CO	AAA, Radio Free Durango
WOEX-FM	96.5	Orlando	FL	Hits 96.5, Bilingual AC
W231DH	94.1	Gainesville	FL	Urban Contemporary, Magic, moved from WTMG
WFYY	103.1	Windermere	FL	Spanish Tropical, Kaliente 103.1
W288CJ	105.5	Oviedo	FL	Spanish AC, Suave 105.5 (WFYY-HD3)
WFFX	103.7	Marrero	LA	Rock, 103.7 The Fox
KVDU	104.1	Houma	LA	104.1 the Vibe, R&B
CJKR	97.5	Winnipeg	MB	Classic alternative
WXQR	105.5	Jacksonville	NC	Spanish Rhythmic, Candela 105.5
WYFX	96.3	Walpole	NH	adult hits, the Penguin
W293AB	106.5	Keene	NH	adult hits, the Penguin
W294AB	106.7	Hanover	NH	adult hits, the Penguin (WHDQ-HD3)
W233CR	92.5	Kingston	NY	Talk, the Beacon, ex Magic 92.5

W243EM	96.5	Beacon	NY	Talk, the Beacon, ex classic hits (//WBNR 1260)
W232DQ	94.3	Peekskill	NY	Talk, the Beacon, ex classic hits (//WLNA 1420)
WZHD	97.1	Canaseraga	NY	Classic rock, The Goat
WOXY	97.7	Marion	OH	//WNKR Williamstown, The Oasis
W265DU	100.9	Waynesboro	PA	Sports, Fox Sports Mason-Dixon Line (//WLIN 1380)
WIKG	92.1	Mercersburg	PA	Sports, 92.1 the Goat
W229DO	93.7	Knoxville	TN	Rock, Rock 92.7 (//WSMM 850)
WFFI	93.7	Kingston Springs	TN	Religious Teaching, Family Radio
KLHB	105.5	Portland	TX	CHR from Rhythmic CHR
K246BD	97.1	Austin	TX	Bilingual AC, Tus Favoritas de Siempre
K233CJ	94.5	Walla Walla	WA	Regional Mexican, Que Buena (KNHK-HD2)
W289CB	105.7	Milwaukee	WI	Sports, // WSSP 1250

MONTREAL AREA FM NEWS

from Charles Gauthier

French station CJPX 99.5 in Montreal, known as "WKND" (weekend 99,5) will soon change its format into a hybrid - talk from 6 AM to 6 PM and adult alternative nights and weekends. They will also turn to HD with music on HD2. This is only the 5th station to offer HD in the metro Montreal market. There will actually be 4 of them since CFGL 105.7 hasn't broadcast in HD for at least 8 months (I should pass along this info to whoever is responsible for the database, sorry, I don't know who that is).

99.5 used to be Radio Classique (1998-2020). Before that, 99.5 was allocated to the Laurentian town of Ste-Adèle with its transmitter atop Mont Sauvage, from 1976 to 1997. That was the good old time.

CKHQ 101.7 in Kanesatake (Mohawk Territory) / Oka, QC is back on the air after several years being off. Noticed them last night playing oldies-country-folk-rock music, with IDs in Mohawk language and English. They identify as RKR (Reviving Kanesatake Radio). Fair to good signal here in Brossard at 32.5 miles. Power is presumed at 51 watts, antenna height is 52,1 meters (171 feet), exact coordinates to be confirmed. Image below for RDS info. They are sharing resources with CKRK 103.7 in Kanawake, another Mohawk territory located on this side of the St-Lawrence river. Their FB page has videos of the tower erection which took place earlier this month: <https://www.facebook.com/reviving.kanehsatake.radio.rkr>

OCTOBER 11 AURORA PHOTOS

From Adam Rivers and Andrew Knafel





FM DX Recap

John Zondlo – 4009 Driftwood Cir. – Yukon, OK
73099

fmdxweb@cox.net – Next deadline: November
25th
November 2024

Russ Edmunds - WB2BJH - Blue Bell, PA - Grid FN20id - EDT – [grid square of stn received]

Equipment: 2 SDRPlay RSP1A SDR's, APS-9B antenna @ 15'

9/4 Tr

0800 WINX 94.3 MD St. Michaels, RDS capture, PI: 6B31, [FM18] 113

9/5 Tr

0800 WRJA 88.1 SC Sumter, ID, [EM93] 513

0820 WLTR 91.3 SC Columbia, RDS capture, PI: 73B3, [EM94] 520

0859 WSGE 91.7 NC Dallas, ID, [EM95] 459

0900 WCPE 89.7 NC Raleigh, RDS capture, PI: 5B7A, [FM05] 339

1001 WVDS 89.5 WV Petersburg, ID, [FM18] 221

1017 WVEP 88.9 WV Martinsburg, RDS capture, PI: 8DA3, [EM19] 156

9/6 Tr

0000 WGBH 89.7 MA Boston, ID, RDS capture, PI: 64A1, [FN42] 259

0000 WBOS 92.9 MA Brookline, ID, [FN42] 259

0457 WINS 92.3 NY New York, ID, [FN30] 79

0459 WOSR 91.7 NY Middletown, ID, [FN21] 107

0653 WVKR 91.3 NY Poughkeepsie, ID, [FN31] 122

9/11 Tr

2117 WWZY 107.1 NJ Long Branch, RDS capture, PI: 9162, [FN20] 65

2342 WXPX 107.1 NY Briarcliff Manor, RDS capture, PI: 92F4, [FN31] 100

9/12 Tr

0300 WAXQ 104.3 NY New York, ID, [FN30] 79

0300 WBEA 101.7 NY Southold, ID, [FN30] 150

0300 WSHU 91.1 CT Fairfield, ID, [FN31] 134

0400 WNVU 93.5 NY New Rochelle, ID, [FN30] 88

0400 WRLI 91.3 NY Southampton, ID, [FM30] 151

0400 WMNR 88.1 CT Monroe, ID, [FN31] 133

0400 WHFM 95.3 NY Southampton, dual ID WBAB and WHFM, [FM30] 151

0600 WFDU 89.1 NJ Teaneck, ID, [FN20] 90

0600 WPKN 89.5 CT Bridgeport, RDS capture, PI: 7D55, [FN31] 134

0602 WJLK 94.3 NJ Asbury Park, ID, [EN20] 62

0800 WIHS 104.9 CT Middletown, ID, [FN31] 164

0803 WSHR 91.9 NY Ronkonkoma, RDS capture, PI: 84F7, [FN30] 123

0815 WXPX 107.1 NY Briarcliff Manor, RDS capture, PI: 92F4, [FN31] 100

0815 WXCJ 91.7 CT Danbury, ID, [FN31] 127

0817 WWRX 107.7 CT North Stonington, RDS capture, PI: 9091, [FN41] 197

0818 WVEI 103.7 RI Westerly, RDS capture, PI: 8C8C, [FN41] 214

0820 WBMW 106.5 CT Pawcatuck, RDS capture, PI: 589A, [FN41] 197
0936 WGBH 89.7 MA Boston, RDS capture, PI: 64A1, [FN42] 259
9/13 Tr
0000 WHUS 91.7 CT Storrs, ID, [FN31] 194
0000 WWRX 107.7 CT North Stonington, ID, [FN41] 197
9/14 Tr
0000 WNJB 89.3 NJ Bridgeton, RDS capture, PI: 77E7, [FM29] 48
0301 WKDB 95.3 DE Laurel, ID, [FN28] 115
0600 WHRV 89.5 VA Norfolk, ID, [EM16] 241
0600 WHCP 91.7 MD Trappe, RDS capture, PI: 6767, [FM18] 118
0800 WRHS 103.1 MD Grasonville, RDS capture, PI: 8254, [FM18] 96
0840 WKHK 95.3 VA Colonial Heights, RDS capture, PI: 6FD0, [FM17] 213
0930 WBKU 91.7 NC Ahoskie, RDS capture, PI: 5864, [FM16] 299
9/15 Tr
0757 WKWI 101.7 VA Kilmarnock, RDS capture, PI: 7154, [FM17] 178
0804 WBKU 91.7 NC Ahoskie, RDS capture, PI: 5864, [FM16] 299
9/16 Tr
0000 WPKN 89.5 CT Bridgeport, ID, [EN31] 134
0000 WJJF 94.9 NY Montauk, RDS capture, PI: 6D5B, [FN41] 183
0000 WRLI 91.3 NY Southampton, ID, [FN30] 151
0000 WWRX 107.7 CT North Stonington, ID, [FN41] 197
0000 WGBH 89.7 MA Boston, ID, PI: 64A1, [FN42] 259
0300 WVKR 91.3 NY Poughkeepsie, ID, [FN31] 122
0815 WVEI 103.7 RI Westerly, ID, [FN41] 214
1009 WSLC 94.9 VA Roanoke, ID, [EM97] 333
1026 WXLK 92.3 VA Roanoke, ID, [EM97] 333
1027 WVTF 89.1 VA Roanoke, RDS capture, PI: 8550, [EM97] 333
1031 WVIA 89.9 PA Scranton, ID, [FN21] 78
1058 WVEP 88.9 WV Martinsburg, RDS capture, PI: 8DA3, [FM19] 156
1059 WVDS 89.5 WV Petersburg, multi-station ID, [FM18] 221
2200 WLNG 92.1 NY Sag Harbor, ID, [FN30] 163
2200 WRLI 91.3 NY Southampton, multi-station ID, [FN30] 161
2300 WSHR 91.9 NY Lake Ronkonkoma, ID, [FN30] 123
2300 WOSR 91.7 NY Middletown, multi-station ID, [FN21] 107
2300 WAMC 90.3 NY Albany, multi-station ID, [FN32] 203
9/17 Tr
0000 WPKN 89.5 CT Bridgeport, RDS capture, PI: 7D55, [FN31] 134
0000 WXCJ 91.7 CT Danbury, ID, [FN31] 127
0000 WXPX 107.1 NY Briarcliff Manor, RDS capture, PI: 92F4, [FN31] 100
0000 WVKR 91.3 NY Poughkeepsie, ID, [FN31] 122
0000 WWRX 107.7 CT North Stonington, ID, [FN41] 197
0000 WVEI 103.7 RI Westerly, ID, PI: 8C8C, [FN41] 214
0000 WGBH 89.7 MA Boston, RDS capture, PI: 64A1, [FN42]
0100 WRNQ 92.1 NY Poughkeepsie, ID, [FN31] 126
0300 WJGK 103.1 NY Newburgh, ID, [FN31] 109
0300 WWPR 105.1 NY New York, ID, [FN30] 79
0300 WEBE 107.9 CT Westport, ID, [FN31] 130
0300 WDBY 105.5 NY Patterson, ID, [EL31] 126

Doug Speheger – Norman, OK – Times CDT (CST for 1/22)

1/22 Es

2054 KPRN 89.5 CO Grand Junction, ID 677

2103 KMGJ 93.1 CO Grand Junction, multiple song stream match 677
5/16 Es
1918 XHPTLM 93.5 QR Tulum, Cancun reference, "Radio Paax Turquesa" 1202
1922 XHCCQ 91.5 QR Cancun, RDS 1164
1924 XHMET 91.9 YU Temozon, RDS 1144
6/9 Es
1222 KVSC 88.1 MN St. Cloud, HD decode under KMSI 729
6/14 Es
1154 KEMC 91.7 MT Billings, HD decode under KOSU 925
1205 KZIN 96.7 MT Shelby, local weather, "Wide Open Country K-96" 1171
6/22 Es
0927 WSTW 93.7 DE Wilmington, RDS 1237
0932 WAMU 88.5 DC Washington, HD decode 1147
0937 WFBY 93.5 WV Buckhannon, ID 991
0944 WIYY 97.9 MD Baltimore, local reference 1174
0944 WKKW 97.9 WV Fairmount 9950947
0947 WDAC 94.5 PA Lancaster, ID 1201
0953 WYBL 98.3 OH Ashtabula, "The Bull" 1011
1022 WWSW 94.5 PA Pittsburgh, ID, RDS, "3WS" 1014
1022 WDCH 99.1 MD Bowie, RDS 1166
1026 WRRR 93.9 WV St. Mary's, "Light Rock 93-R" 935
1030 WCLT 100.3 OH Newark, country music, "T-100" 885
1037 WVEG 106.9 MD Myersville, RDS 1124
6/26 Es
2135 WKMJ 93.5 MI Hancock, ID 939
2137 WRJO 94.5 WI Eagle River, ID 864
6/27 Es
1138 CKLQ 91.5 MD Brandon 1048
1140 WWQI 91.3 IN Morristown, "The Life" 707
1155 KXRP 91.3 ND Bismarck, local weather 803
1157 KSTJ 91.3 SD Hartford, "Real Presence Radio," EWTN 570
1201 WGTE 91.3 OH Toledo, RDS 876
1430 WOVM 91.1 WI Appleton, AAA music, playlist match 785
1459 CINN 91.1 ON Hearst, French, ID, stream match 1216
7/9 Es
1139 WUSF 89.7 FL Tampa, HD decode 1027
1140 WQCS 88.9 FL Fort Pierce, HD decode 1141
1149 WOGK 93.7 FL Ocala, HD decode 985
1152 WPCV 97.5 FL Winter Haven, Florida reference and country format 1053
1156 WWRZ 98.3 FL Fort Meade, "Max FM" 1047
1219 WHGN 91.9 FL Crystal River, "Focal Point Radio," show match 978
1224 WZPH-LP 96.7 FL Dade City, music match with station owner 1015
1226 WOEX 96.5 FL Orlando, HD decode 1063

TV DX and Photos

Eric Bueneman N0UIH 631 Coachway Ln, Hazelwood, MO 63042-1347
Email: n0uiheric@gmail.com - Deadline the 10th of the month



The TV DX season will go down at my QTH as the worst in recent memory. Most of the DX logged during this past season at my QTH have been in the sub-200 mile (322 km) range. This issue will debut a new feature, as well as more DX pictures from Ryan Grabow.

Eric Bueneman (N0UIH), 631 Coachway Lane, Hazelwood, MO 63042-1347

Equipment: 1984 Samsung 19-inch color TV, 1999 Daewoo 13-inch color TV, 1992 Panasonic 19-inch TV, two Zenith DTT-901 ATSC 1.0 tuners, ADTH X23A3U-Z2 ATSC 1.0/ATSC 3.0 tuner, Channel Master CM-3020 VHF/UHF antenna at 28 feet (8.5 m) above ground level. *All times CDT, all distances in miles/kilometers.*

October 4, 2024 (tropo)

0215	KHQA	22-1 (7-1) MO, Hannibal (CBS)	85/137
0215	KHQA	22-2 (7-2) MO, Hannibal (ABC)	85/137
0215	KHQA	22-3 (7-3) MO, Hannibal (Comet)	85/137
0230	KOMU	27-1 (8-1) MO, Columbia (NBC)	105/169
0230	KOMU	27-3 (8-3) MO, Columbia (CW)	105/169

A short opening on October 4, pulling in mostly Hannibal/Quincy and mid-Missouri. I noted a signal lighting up on 19, but could not get a decode on the signal, making me unable to determine if WGEM has made the move from 10 to 19. There were no huge tropo openings this past season...I hope next season is much better.

Now, for a new feature in this column. Some of us wonder what's on the other streams on our local TV stations. This part is **Market Scan**, where we will focus on our local TV stations. The first Market Scan is a partial scan of my home market, Saint Louis, featuring the local stations owned by Gray Media (KDTL-LD 17, KMOV 24) and Nexstar (KPLR 26, KTVI 33). The streams are identified by their virtual channels.

KDTL-LD 17 Saint Louis, MO (Gray Media)

- 4-5 The 365 (general entertainment)
- 32-2 Corner Store TV (infomercials)
- 32-3 Outlaw (Western movies and TV shows)

KMOV 24 Saint Louis, MO (Gray Media)

- 4-1 CBS (broadcast network)
- 4-2 First Alert Weather (local weather channel)
- 4-3 COZI TV (classic TV shows)
- 4-4 Ion Mystery (mystery and investigative shows)
- 11-4 Rewind TV (classic TV shows)
- 32-1 Matrix Midwest (local and regional sports and entertainment)

KPLR 26 (ATSC 3.0) Saint Louis, MO (Nexstar)

- 2-1 Fox (KTVI 33)
- 4-1 CBS (KMOV 24, encrypted)
- 5-1 NBC (KSDK 35, encrypted)
- 11-1 CW (KPLR)
- 30-1 ABC (KDNL 31)

KTVI 33 Saint Louis, MO (Nexstar)

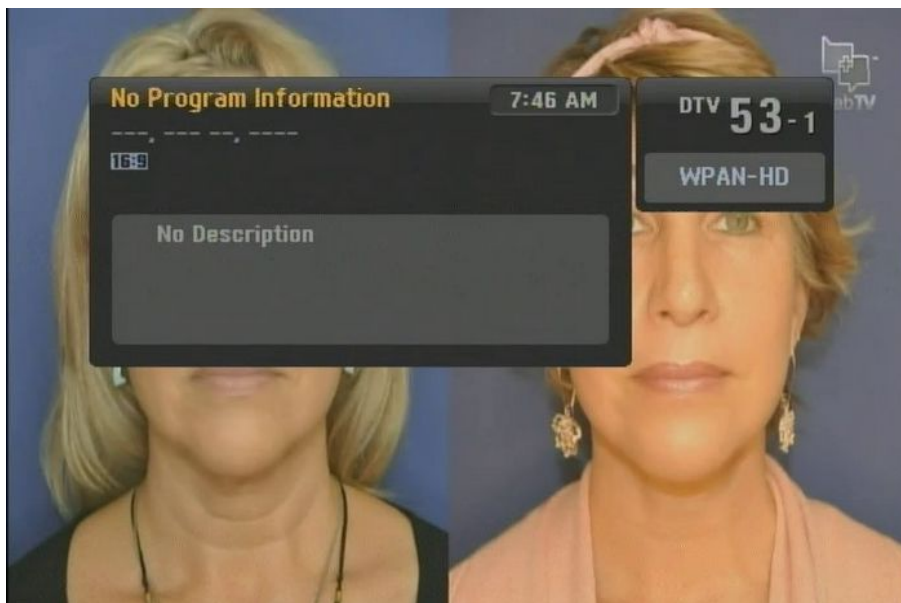
- 2-1 Fox (broadcast network)
- 2-2 Antenna TV (classic TV shows)
- 2-3 Grit (action TV shows and movies)
- 2-4 Shop LC (home shopping)
- 11-1 CW (broadcast network)

The stations that are encrypted require an Internet connection to the ATSC 3.0 tuner to decode. You're welcome to contribute lists of your locals to this column to be included in this portion of the column.

Now, here's a couple of DX pictures from Ryan Grabow, DXing from Mount Dora, FL.



WDHN 21 (18) Dothan, AL
 277 miles (446 km) tropo
 Seen June 10, 2024



WPAN 21 (53) Fort Walton Beach, FL
 319 miles (513 km) tropo
 Seen June 10, 2024

That will wrap up another column...please report! 73 and good DX from the Florissant Valley Dial Twister.

Line-of-Sight DX
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 Got something to submit? Email it to mike@wtfda.org

