



The VHF-UHF Digest

THE OFFICIAL PUBLICATION OF THE WORLDWIDE TV-FM DX ASSOCIATION

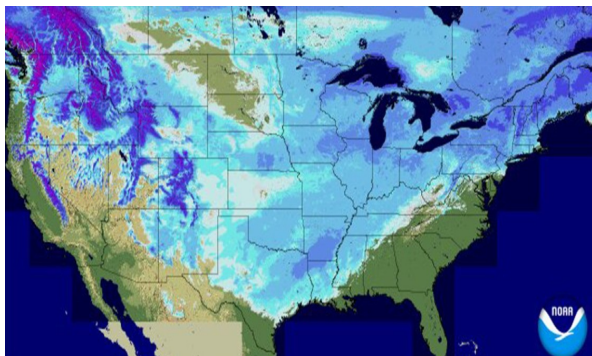
P.O. Box 501, Somersville, CT 06072 <https://www.wtfda.org>

THE WORLDWIDE TV-FM DX ASSOCIATION IS DEDICATED TO THE OBSERVATION AND STUDY OF LONG DISTANCE VHF AND UHF PROPAGATION AS IT APPLIES TO SIGNALS FROM 30MHZ THROUGH 600MHZ WITH EMPHASIS ON BROADCAST TELEVISION AND FM RADIO

MARCH - APRIL 2023



Photo courtesy of Jim Thomas



February 2023 Snow Cover Map

In Much of North America, Winter Keeps Holding On with Heavy Snow, Blizzards and Ice Storms

Someday soon DX will return.



The Mailbox

P.O. Box 501 Somersville, CT 06072

Mike Bugaj mikeb@wtfda.org



We lost two members over the past couple of months. I'm sad to report that Arnie Coro in Havana has passed. Arnie was a WTFDA member for the past several years and I don't know anyone who isn't familiar with his name. I believe he passed away in January. Also I found a note in the IRCA bulletin that WTFDA member Fred Laun also passed. Alfred lived in Temple Hills, MD and was in the club for years. I believe he was in his upper 80s. He led a very interesting life. He was a ham with the calls of K3ZO. An excellent article about his life can be found at <https://ncjweb.com/features/sepoct15feat.pdf>.



This arrived from Bob Cooper: June 5, 1955 - TV DX Pioneer Memories



Sunday morning in Fresno, California; 7am local and into my ham shack. Fresno at the time was 200 miles plus from the nearest low band VHF station (San Francisco 4 and 5) and NW. 80 feet atop a crank up tower two stacks of TACO trapper deep fringe antennas; in the shack Mattison 630DX receiver. Channel 4 while pointed at SF heavy co-channel bars. 90% of my Es was from NE-E-SE and the Alliance rotor was already moving as the receiver warmed.

At East a Sunday church service with excellent sound and local quality picture, while a quick search of channels 2,3,5 and 6 displayed two test patterns, some CCI. "Heavy opening" I recall thinking and checked 7 "just in case". Nothing and the test patterns were slow to register although I had a photographic recall of where each station then operating was located. 4 was the outstanding for quality so I returned there momentarily lost in the content (the first mistake of a dedicated DX enthusiast!). Then it hit me like a flash - the test patterns both began with the letter "W" which pretty much guaranteed east of the Mississippi! Back to 3 and 6 and two quick photos with my Brownie - WSAZ on 3 from West Virginia, WJAC on 6 from Johnstown. Pennsylvania. Both would later work out in the 2,000-mile club. Now the church service on 4 was heading for what appeared to be a wrap and while still beating my heart raced; WBZ-TV Boston! Just a 2,588 miles as it worked out.

Over the next 3 hours stations from New York (NYC, Syracuse, Schenectady), Pennsylvania (Philadelphia, Pittsburgh), Washington (DC), Ohio (Cincinnati, Columbus, Cleveland) Michigan (Detroit, Lansing, Kalamazoo) as Boston faded under NYC and NYC would disappear under WRC-TV and I ran out of film rapidly. When the last of the double-hopper distance stations faded by 10:30 to be replaced by single hop Oklahoma/Kansas/Missouri signals, I had a regret; I did not think to turn-on the FM tuner! The channel 6 signals were way above the threshold for FM's dial to have been loaded. Maybe next time? Alas, not to be a "next time" of course - like the once in 100 year rain storm, this was the best for a lifetime. (see the next page for a 2Es photo of Bob's WBZ-4 catch).

This begs the question what was your best DX catch or event? If you are an old timer who spent much of his life with analog TV Dxing, you probably remember something that stands out. For me, it's a toss up. It could be KLAZ-98.5 in Little Rock (1100 mi) heard via tropo back in the fall of 1978 along with 103.7 from L. Rock, or maybe it's Ch3 in Mexicali or ch4 in Guadalajara seen back when the analogs were all turning off. Those were great double hop. Once you experience something like that on TV, digital TV DX just doesn't seem interesting anymore. It can't compare, in my opinion. (YMMV).

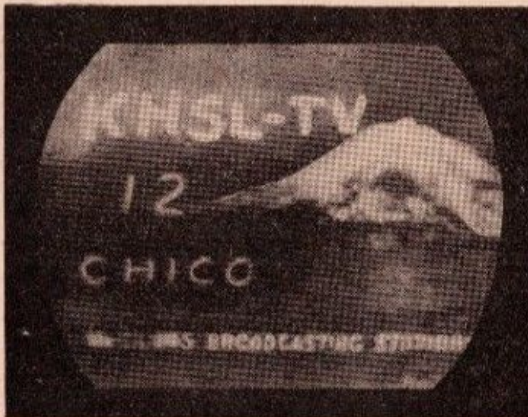
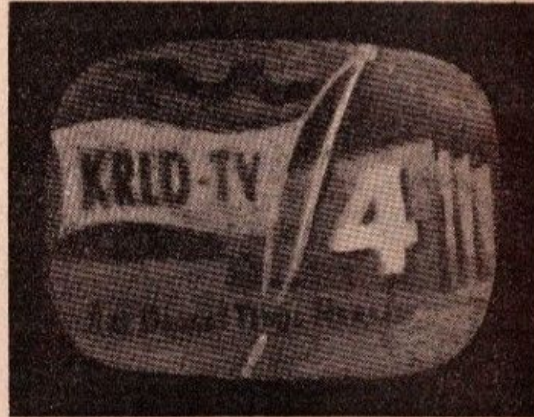
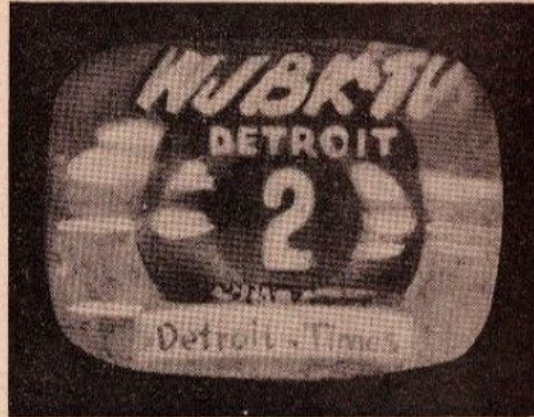
See you next month with the newsletter. -Mike



DX TV Reception Makes New Hobby

WOULD YOU be astounded to turn on your TV receiver and see a program from a station half-way across the continent? Probably not, because present-day TV relays provide daily entertainment in this fashion. But what would you think if you discovered that there were no relays involved—the program was really coming from that station hundreds of miles away.

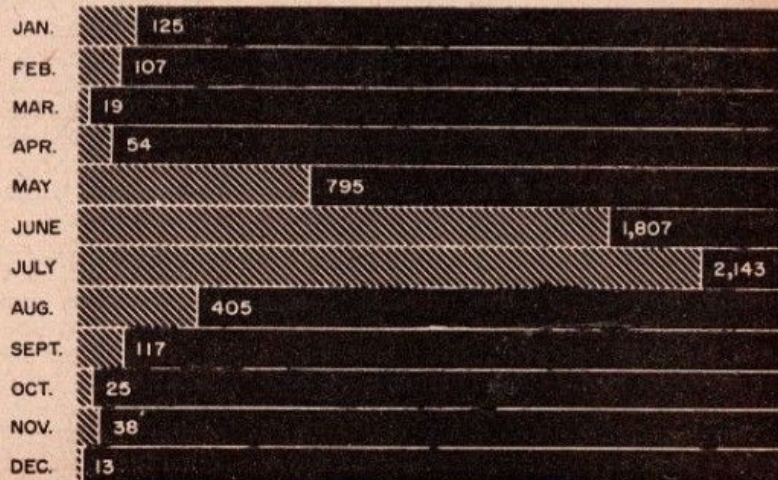
Many viewers outside the metropolitan New York and Los Angeles areas have been treated to this thrilling experience. Distant (DX) television reception is now an accepted fact. No longer do viewers call the repairman and complain. They sit back and enjoy one of nature's most unusual freaks—TV reception where TV re-



Two TV stations logged from Fresno, Calif. WJBK, Channel 2, Detroit, Mich., 2145 miles to the east, was received by means of sporadic E skip. KRLD, Channel 4, Dallas, Texas, 1350 miles southeast, was seen on 26 days in 1955.

Seen only during unusual lower atmosphere weather conditions, KHSL, Channel 12, Chico, Calif., which is 265 miles to the north of Fresno, can be logged 75% of the time in the summer

Sporadic E skip loggings reported per month (right) from January through December, 1955, show frequency of DX TV reception. Such reception usually lasts from about five minutes to several hours (AIPA data).



June, 1956



MERCHANDISE STORE

NOW OPEN

It's here! Now you can show off your club pride by ordering a WTFDA logo shirt from the brand new WTFDA Merchandise Store. We're proud to launch the store with a variety of 125 different shirt styles, notebooks for your logs, and unique wall clocks for your DX shack!



Even more products will be arriving soon, so make sure to check back often to see what's new. You will also be helping support the club as a portion of sales goes to the WTFDA.

The store can be found at <https://www.redbubble.com/people/wtfda/shop?artistUserName=wtfda>

Any questions, comments, or feedback can be directed to store@wtfda.org

Xperi and NAB Seek More HD Radio Power

They ask the FCC to update the formula used to decide which stations can use the highest allowable levels

BY RANDY J. STINE RADIOWORLD OCTOBER 31, 2022

Xperi and the National Association of Broadcasters believe many FM HD Radio stations in the United States should be allowed to raise their digital power levels and could do so without causing interference problems. So they are asking the Federal Communications Commission to update the formula that is used to make those distinctions.

In a petition for rulemaking, the organizations say the change would allow more HD Radio stations to increase digital power over the currently authorized digital ERP of -14 dBc, without need for separate FCC authorization.

“Approving this request will serve the public interest by improving digital FM coverage and digital FM signal penetration of buildings while continuing to minimize the probability of harmful interference to adjacent-channel stations,” Xperi and NAB wrote. Xperi is the developer and licensor of HD Radio technology.

The commission originally authorized FM stations to operate with digital ERP equal to 1 percent of analog power or -20 dBc. In 2010 it allowed stations to operate at -14 dBc but to allow stations that meet certain guidelines to increase to -10 dBc, or 10 percent of analog power.

In some cases, to operate above -14 dBc, stations must submit a request with an analysis of its potential to cause interference to adjacent-channel analog signals. It used a technical formula developed by National Public Radio and supported by Xperi predecessor iBiquity Digital.

But Xperi and NAB said this approach was intentionally conservative and can now be loosened based on field experience. It said the existing approach uses symmetric sidebands for all calculations, eliminating a path for many stations to increase power on at least one sideband and improve digital coverage. Further, they said, real-world experience has shown that the existing formula is too restrictive.

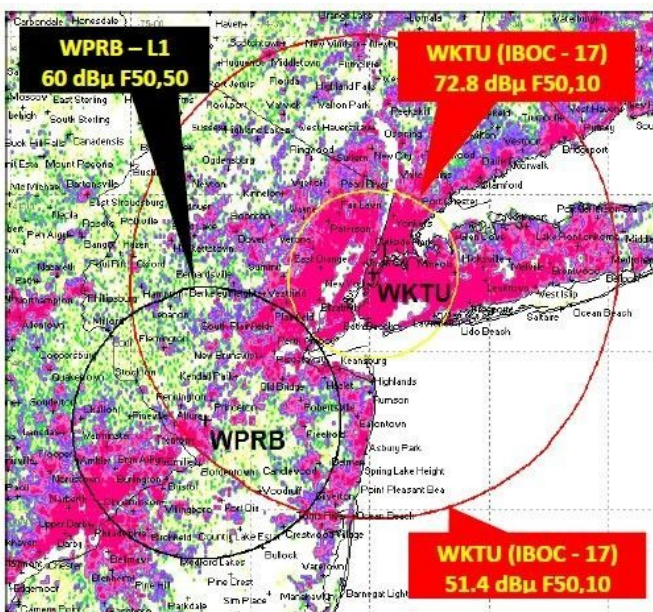
In practice, the digital service has never replicated analog coverage, and the proponents say this has frustrated some radio owners and slowed station adoption of the technology. They say a less-restrictive “market-based formula for assessing digital interference risk” will help encourage more adoption by radio stations.

“The proposed formula better reflects the real-world interference environment in the FM band and the appropriate level of protection that first-adjacent stations need from harmful interference,” they wrote.

(The petition dovetails with a request filed in 2019 for a rulemaking proceeding to permanently authorize FM radio stations to utilize IBOC with asymmetric sideband power levels without the need for separate or experimental authorization. Xperi and NAB are now asking that the two petitions be combined into one rulemaking proceeding.)

If more stations adopt HD Radio, Xperi and NAB wrote, transmission equipment manufacturers will continue to invest in the development of digital radio equipment, reducing equipment costs and expanding the ability of smaller broadcasters to afford the conversion to HD Radio.

They told the FCC that they conducted an engineering study working with broadcast engineers at Audacy and iHeartMedia examining a number of short-spaced FM stations and collecting data.



“The study identified many stations currently operating at -14 dBc that exceed the interference levels the current formula would prohibit for stations seeking to operate above -14 dBc. However, even with those elevated levels of potential digital interference, there have been no well-documented reports of interference by any of those stations.”

They concluded that the formula was restricting increases in digital power even at levels that would not cause harmful interference.

In addition, field tests using pubcaster WNYC(FM), and Audacy stations WZMX(FM) and WIP(FM), were conducted with FCC experimental authority to determine if the Audacy stations could operate at the proposed higher power without creating interference to first-adjacent channel WNYC. Separate tests in Connecticut and New Jersey determined “there was no significant change or degradation of the desired WNYC signal” as the Audacy stations raised power.

Data from Xperi indicates growth in the number of HD Radios in the field, mostly in vehicles. The firm says 59% of new vehicles delivered in the U.S. contain original equipment HD Radios and that in total, 90 million HD Radio receivers have been installed in cars and trucks.

The FCC adopted hybrid HD Radio in-band, on-channel operation in 2002. Of the roughly 10,875 FM stations in the United States, approximately 2,600 broadcast in digital FM.

FCC Takes Comments on FM Digital Power Increase

It also agreed to combine this petition with an earlier one for asymmetric sidebands

BY PAUL MCLANE JANUARY 12, 2023

The FCC wants to know what you think about the proposal by the National Association of Broadcasters and Xperi to allow many FM HD Radio stations in the United States to [raise their digital power levels](#). The Media Bureau now is taking comments on the petition submitted by the NAB and Xperi in October. [[Read the petition.](#)]

The commission also has combined this petition with another filed in 2019 by NAB, Xperi and NPR. That one would permanently authorize FM stations to use HD Radio with asymmetric sideband power levels without the need for separate or experimental authorization. [[Read that petition.](#)] These two petitions now have been assigned MB Docket Number 22-405. Comments can be filed in the FCC's [Electronic Comment Filing System](#). Comments are due Jan. 12, replies are due Feb. 13.

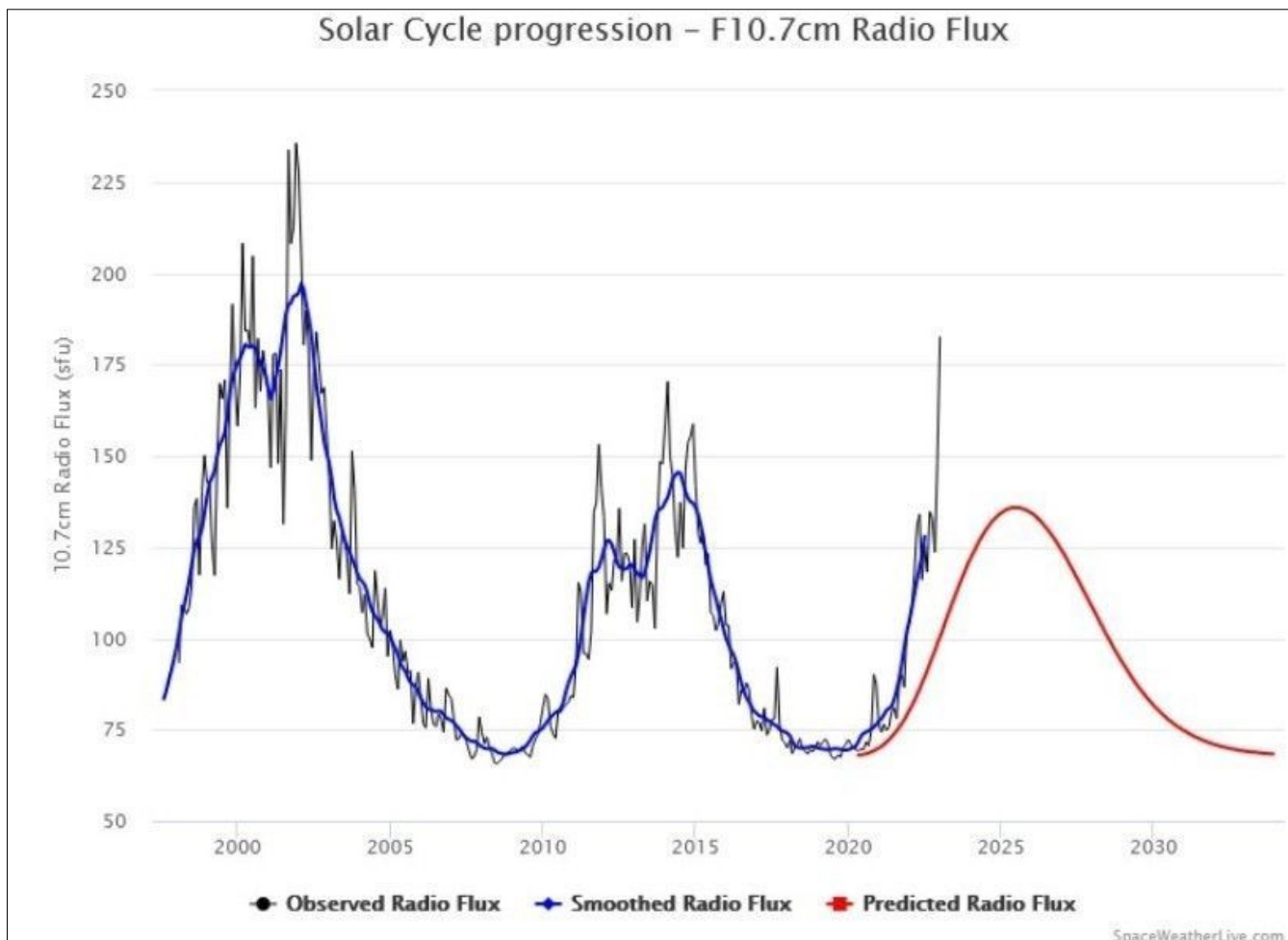
Higher power

Xperi and the NAB believe that higher power will improve digital FM coverage and digital FM signal penetration of buildings while minimizing interference to adjacent-channel stations. The commission originally authorized FM stations to operate with digital ERP equal to 1 percent of analog power or -20 dBc. In 2010 it allowed stations to operate at -14 dBc but to allow stations that meet certain guidelines to increase to -10 dBc, or 10 percent of analog power.

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There are approximately 2,600 FM stations using HD Radio in the country.



Northern Westchester FM Radio Update

Karl Zuk N2KZ Katonah, NY FN31eh



On Valentines Day, February 14, 2023, WMNR 88.1 Monroe, CT translator W209CJ 89.7 returned to the air at a full 8 watts of transmitter power. W209CJ is using a two-bay Shively 6812 stack mounted below a massive cellular array located behind the CVS Pharmacy at Exit 38 at Green Lane on the northbound side of the Saw Mill River Parkway.

This ends a long and tireless saga that began when A/C power access was disconnected unannounced from its original facility June 14, 2020 leaving W209CJ Mount Kisco homeless. Relocation was difficult. WMNR had to first find a similar replacement transmitter site, carefully proceed not to disturb a resident osprey nest atop the cellular tower they chose and then have a custom made stacking cable constructed for their Shively array when the original supplied cable proved inadequate. What else could go wrong? Installation of Internet access proved difficult, as well. All the parts and pieces are now together, tested and functioning as designed. We wish General Manager Kurt Anderson and company hearty congratulations for surmounting of these technical challenges.



all

While following this story, I was discovered two things. The long-time broadcast antenna manufacturer, Shively Labs, is being sold by its parent company Howell Laboratories, Incorporated after over 50 years of operation. This was hard to believe! Shively has been a pivotal supplier of antennas and support materials for decades. It is hard to imagine that they will be sold or dissolved after all this time.

Secondly, I have been monitoring the 89.7 MHz FM broadcast frequency in anticipation of WMNR's eventual success. I noticed that the leviathan signal of WGBH Boston would make it through this nearly empty channel in my neighborhood more than I would ever imagine. A masterful and dominant full-powered FM, WGBH could be heard like a specter coming and going when the right wisp of the troposphere carried it my way day after day.

WHOM 94.7 Mount Washington, New Hampshire is another notable monster signal that drifts in and out here in Northern Westchester. You'll experience the same effect by sitting on 147.555 MHz (amateur 2 meter FM - vertical polarization.) Point your beam towards Hartford, Connecticut and you just might hear the Morse code broadcasts from the ARRL's W1AW facility. It is fascinating to behold!

This effect reminded me of a similar situation I experienced back in the mid-1970s when I lived in Eastern Queens on Long Island in a garden apartment. I had a ten-element Lafayette Yagi in my attic, with double shielded 300 ohm foam cable, sitting on a rotor. Pointing the beam due north, I discovered I could sit on 88.5 MHz and often hear WFCR from Western Massachusetts near Northampton. WFCR would also come and go as

it liked! Shortly thereafter, two low powered high school 10 watt FMs began sharing 88.5 - WKWZ Syosset and WPOB Plainview - and would sometimes distract my enjoyable ultra-DX reception from the far north!

I also experience grabbing high powered FM when I vacation in Central Michigan in the summer. In a location that is a thousand miles from nowhere, and major stations are sparse and few, I can often hear the robust signals of Canada's CBC Radio One Ontario service coming across Lake Huron. Most reliable is on 98.7 MHz CBCB-FM from Owen Sound with 100 kilowatts ERP. I can hear it all over Michigan's Huron County hundreds of miles away on a daily basis. Sure, it has deep fades but you can feel the power in its dominating signal.

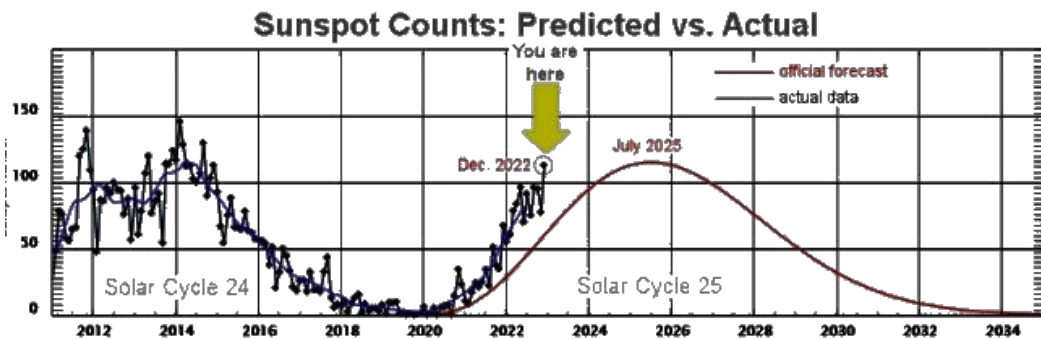
You should hear the amazing tropo and E-skip you can hear in Michigan when the FM band is not loaded up with superpowered stations all over the dial! Keep in mind that being in the Midwest has a powerful advantage over DXing in New England. You are completely surrounded by land unlike us coasties where half of our listening area is the Atlantic Ocean! Back in the day, the analog TV E-skip in Michigan used to be like going to a carnival as a kid. The fun was endless!

Lowband TV in China - Bill Hepburn on the WTFDA Mewe Group

I noticed today on the ITU updates that there are a whole bunch of new Chinese DTV assignments on Channels C-3 (68.5 MHz) and C-4 (80.0 MHz). Doesn't really mean much for North Americans, but Australasian TV DXers will be happy. There's a ton of transmitters - but it looks like province-wide SFNs (Single Frequency Networks). So basically it's 2 networks - Channel 3 Shenyang-Liaoning Province and Channel 4 Changchun-Jilin Province. Both of these provinces are in the NE. DTV mode = DTMB. For some reason, the WRTH has changed the designations of the channel numbers from C-3 and C-4 to DS-3 and DS-4. Perhaps as a way of differentiating the old analogue from the new digital. Frequencies confirmed on ITU list as being the same. According to the ITU these have been on the air since 2017.

Solar Cycle 25 - amfmdtvbri la EM40 on the WTFDA Wewe

This NOAA graph shows the upward progression of solar cycle 25. The red line shows the forecast and the purple line and black dots show actual sunspot activity through December 22, 2022. It has exceeded the official forecast for 35 consecutive months. If the trend continues, the Solar Maximum will occur earlier or be stronger than originally forecast.





FM DX Recap

John Zondlo – 4009 Driftwood Circle –
Yukon, OK 73099

dxreports@wtfda.org – Next deadline: April 25
March 2023

Welcome to the new FM DX Recap! Southern FM DX and Northern FM DX have merged into one FM DX reporting column. Many thanks to Keith McGinnis for his service as editor of NFM.

Is a reporting column such as this still relevant? Absolutely! We have so many incredible tools to use in our pursuit of FM DX, notably the WLogger. However, in the midst of a great opening, while I may list a logging or two, I'm more focused on hearing new stations and I don't always have time to contribute to the logger. Certainly, I'm not the only one in that situation. FM DX Recap is a place where I can list all of my stations heard during an opening. And, let's face it, SDRs are a game changer for the hobby. In reviewing the recordings made with my SDRs I can add many more new stations that would be "stale" loggings for the WLogger. Additionally, FM DX Recap gives DXers not using a SDR or the logger a chance to tell us what they've heard. Getting to see all of the loggings by an individual DXer, all in one place, without having to search thru the logger archives, sounds like a winner to me!

The format for FM DX Recap will be the same as it was for Southern FM DX. For those of you coming over from Northern FM DX, the only slight change is that the city and the political unit (state, province, etc.) are reversed. The deadline will be the 25th of the month prior to the month of the issue.

Since we're kicking off this new column, it seems a re-intro is in order. I hit the big 7-0 this year and have been DXing since 1970. I joined WTFDA in 1971, and over the years have been a BoD member, convention host, part of the NW Indiana publishing crew, and a column editor (Mailbox late 70's-early 80's, SFM since April 1997). I'm also a member of IRCA, for which I was a BoD member, column editor and convention host back in the '70s. While FM DXing is my priority, I do some BCB DX in the winter and a little bit of TV DX in the summer (was more active in that in the analog days).

I'm a 1975 grad of Ball State University, where I majored in Radio-TV and Journalism. I DXed in Hammond, Indiana, where I grew up, and in Muncie IN, until 1979 when I moved to the Oklahoma City area. My wife of 34 years, Carol, and I settled down in Yukon in 1992. We have two kids, Christy, 30, and Joel, 27, and a grandchild from each one. I've worked for various stations both here and in Indiana since my college days, and am currently PT with iHeart Media producing sports broadcasts (have been with the stations/networks here thru various ownerships since 1981 either fulltime, part-time or contract). I retired from the Oklahoma City Police Department in May 2020, having spent nearly 30 years as a dispatcher. My wife and I are members of Victory Church in Warr Acres, where I'm part of the TV production crew.

I think this is going to be an incredible year for FM DXing. Please be sure to share what you've heard here in the Recap and on the logger. Best of DX to all!

TV Changes for March 2023

Data supplied by Doug Smith.



AL Birmingham 10 WBIQ change granted 3.4kw/400m;
AL Ozark 33 WDFX-TV change granted 179kw/151m
AR Little Rock 22 KATV OFF Jan. 29th, station is installing new antenna & it appears ice & high winds have damaged the temporary antenna.
AR Springdale 29 KWOG change granted 80kw/114m, 36-03-47/94-12-27
CO Grand Junction 7 KLML OFF Dec. 13th, transmitter issues. Returned to the air Jan. 13th.
CT Norwich 9 WEDN To convert to ATSC 3.0; programming is already simulcast in ATSC 1.0 on co-owned WEDH.
FL Clearwater 21 WCLF change requested 1000kw/415m, 27-50-52/82-15-49
GA Albany 10 WALB change 28kw/297m
HI Kailua 29 KKAJ Requests STA to operate only site 1 of authorized two-transmitter DTS.
HI Wailuku 16 KOGG Returned to full power Jan. 6th.
IL Chicago 12 WBBM-TV 30kw/491m, 41-52-44/87-38-08
LA Hammond 35 KGLA-DT power change 752kw/309m
LA New Orleans 23 WLAE-TV change requested 310kw/270m; PG
LA New Orleans 28 WYES-TV change request from 11, 1000kw/306m, 29-58-58/89-57-09; QG
MA Foxborough 36 WMFP See sharing host WWDP Norwell.
MA Norwell 36 WWDP change requested from 10, 1000kw/318m, 42-18-37/71-14-12
MA Norwell 36 WWDP change requested from 10, 1000kw/318m, 42-18-37/71-14-12 but withdrawn at FCC's request & refiled & granted.
MI Cadillac 32 WFQX-TV STA dismissed, presumably returned to full power (from 5-10% of authorized) after antenna repairs.
MI Marquette 19 WZMQ change requested 120kw/174m, 46-30-06/87-38-56; PG; PC
MI Marquette 35 WLUC-TV change 100kw/258m
MS Magee 34 WRBJ-TV Operating at less than 80% power since Dec. 23rd equipment failure.
MS Magee 34 WRBJ-TV returned to air Jan. 5th at 90% power.
MO Columbia 27 KOMU-TV channel change from 8, 1000kw/266m, 38-53-21/92-15-43
MT Butte 15 KXLF-TV change granted 1000kw/588m, 46-00-27/112-26-33
MT Great Falls 22 KRTV change requested from 7, 1000kw/146m; QG
MT Helena 31 KTVH-DT change granted 530kw/671m, 46-49-29/111-42-16
MT Kalispell 17 KCFW-TV PA from 9, 400kw/850m
MT Missoula 25 KPAX-TV change granted 600kw/654m, 47-01-02/114-00-51
NV Elko 20 KENV-DT channel change from 10, 75kw/562m
NM Clovis 12 KVIH-TV change requested 160kw/204m, 34-11-34/103-16-46; PG
NC Wilmington 23 WECT change granted 550kw/592m
NC Wilmington 29 WFSX-TV power change requested 240kw/592m; PG
ND Grand Forks 27 KNGF new station 720kw/594m, 47-20-32/97-17-21 (BEK Sports Network)
OR Coos Bay 34 KCBY-TV channel change from 11, 450kw/192m
PA Allentown 9 WFMZ-TV See sharing host WBPH-TV Bethlehem

TV NEWS CONTINUES ON PAGE 16

FM Changes for March 2023

Data supplied by the FCC although some data obtained from internet sources and individuals.
This table contains facilities data plus format and/or slogan changes.



AK	KKON	91.9	Galena	calls for new station
AK	NEW	91.9	Mountain Village	60wattsH/37m, 62-05-20/163-43-40
AK	KVRF	89.5	Sutton	Big Cabbage Radio
AK	KVRK	88.3	Chickaloon	Big Cabbage Radio
AL	W225AH	92.9	Huntsville	90watts, 34-47-38/86-37-51
AL	WZNJ	106.5	Demopolis	format to smooth R&B, 106.5 the River
AR	DKAWX-LP	93.1	Mena	license canceled
AR	K235DB	94.9	Mena	change primary to KLFH 90.7 (K-Love)
AR	K224FP	92.7	Morrilton	granted move to 92.5 (K223DK), changes primary to KVOM 800
AR	KAWX-LP	89.3	Mena	license canceled 1/21/23
AZ	K234CF	94.7	Prescott	granted move to 100.3 (K262DP)
AZ	K298GT	107.1	Tucson	change COL to Tucson
AZ	K277CV	103.3	Tucson	granted move to 93.3 (K227DX)
AZ	k292GC	106.3	Lake Havasu City	granted move to 93.1 (K226DB)
BC	CISQ-FM	107.1	Squamish	drop power from 30kw to 15.8kw
CA	KLQS-LP	97.5	Agua Dulce	raise power to 100watts, change location
CA	KSBX	89.5	Santa Barbara	license canceled
CA	KHSM	103.3	McKinleyville	Silent 12/13/22 with equipment problems
CA	KFQM-LP	101.5	Los Angeles	Silent 12/28/22; lost site
CA	KGMX	106.3	Lancaster	3kw/100m, 34-44-42/118-07-33
CA	KFQM-LP	101.5	Los Angeles	Silent 12/38/22; site issues
CA	NEW	89.5	Joshua Tree	15kw/82m, 34-09-15/116-11-53, new station
CA	K224ER	92.7	Eureka	format to oldies, The Jukebox (KEJB 1480)
CO	K260BX	99.9	Creede	Silent 1/15/23 pending move to new location
CO	K206BU	89.1	Seibert	Silent 1/15/23 pending move to new location
CO	K280GO	103.9	Durant	100watts, 33-59-46/96-24-32 granted move to 104.1 (K281DH)
CT	WJOZ	91.5	Goshen	calls for new station
CT	W241CG	96.1	Southington	250watts, coverage increases eastward
CT	W292FI	106.3	Waterbury	raise power to 250 watts
FL	WGMX	94.3	Marathon	Silent 2/6/23, lack of power, 6 month STA
FL	WLFE	90.9	Cutler Bay	format to Spanish Christian, Vida Unida
FL	W288CJ	105.5	Oviedo	format talk, Florida Man Radio
GA	W212BY	90.3	Brunswick	granted move to 89.7 (W209CR), 13watts vert.
GA	WXYY	100.1	Rincon	format to rhythmic CHR
HI	K267BW	101.3	Kapaa	format to classic hits, Sunny 101.3 (KTOH-HD2)
HI	K300AT	107.9	Kalaheo	format to rock, 107.9 the X (KTOH-HD3)
IA	NEW	89.9	Spencer	22kw/84m, 43-13-47/95-07-56
IA	K293CX	106.5	Council Bluffs	change to country, Bluffs Country 104.5 (KXCB 1420)
IL	WGEM-FM	105.1	Quincy	format to sports, Sportsradio 105.1
IN	WEHP	93.7	Clinton	change calls from WPER-FM
IN	WNPW	89.9	French Lick	calls for new station

IN	W275AJ	102.9	Muncie	Drop power to 99 watts
IN	WNAP-FM	88.1	Morristown	6.3kw/111m, 39-42-22/85-29-41
KY	W265DZ	100.9	Mayfield	slogan to 102.5/100.9 The Beat
KY	WEKM-FM	88.1	Maysville	calls for new station
KY	W230DH	93.9	Hopkinsville	granted move to 99.3 (W257EV), 250w
KY	W237BV	98.7	Hopkinsville	format to country, 95.3 the Farm (WHOP-HD2)
LA	KBIO	89.7	Nachitoches	100watts/90m, 31-47-14/93-07-53
LA	K214CE	90.7	Grambling	Silent 2/5/22; damaged transmission lines
MA	W262CV	100.3	Bosto	Silent 1/25/23 move equipment to new CP site
MD	WRNR	103.1	Graysonville	change calls to WRHS, format to contemporary Christian, 95.1 Bright FM
MI	WKPK	88.3	Michigamme	raise power to 40kw vertical
MN	KPPS-LP	97.5	Saint Louis Park	Silent 2/17/23; equipment problems
MN	K224DB	92.7	Willmar	adds HD
MN	KPPS-LP	97.5	St. Louis Park	Silent 2/7/23, winter related problems, 6 month STA
MN	KPMI-FM	94.5	Baudette	100kw/148m, 48-47-52/95-04-51
MN	KPPS-LP	88.9	St. Louis Park	silent; transmission line problems
MS	WFFX	103.7	Hattiesburg	77kw/324m, 31-31-36/89-08-10
MS	WYAB	103.8	Pocahontas	8kw/102m, 32-24-28/90-09-03
MS	W273CY	102.5	Jackson	format to adult standards, the Concert Hall 1120 AM & 102.5 FM
MS	WBZK	94.7	Taylor	change calls from WRBM effective 2/20/23
MT	NEW	88.1	St. Mary	750watts/427m, 48-40-08/113-23-11
NC	W268CG	101.5	Winston-Salem	drop power to 150 watts
NC	W264DT	100.7	Asheville	granted move to 92.1 (W221ET) & change of COL to Asheville
NE	K276DM	103.1	Chadron	change primary to KLMP 88.3 (Religious Teaching)
NE	NEW	88.9	Winnebago	new station 4kw/113m, 43-13-53/96-27-21
NE	KAVA	88.1	Kimball	change calls from KKAR
NE	KBVW-FM	88.9	Winnegago	calls for new station
NE	KIMB	104.3	Kimball	format to classic hits
NE	K277CA	103.3	Lincoln	format to variety hits, Mix 103.3 (KLMS 1480)
NH	W280EC	103.9	Concord	Silent 1/7/23 tower repair
NH	WFNQ	106.3	Nashua	format to classic hits
NH	WLNH	98.3	Laconia	format to classic hits
NH	WBYY	98.7	Somersworth	format to classic hits
NL	CBFS-FM-3	105.3	L'Anse-au-Claire	new station, 500watts, 51-25-28/57-04-17
NM	KIJR	91.7	Deming	calls for new station
NM	KQBA-FM1	107.5	Los Alamos	2.34kw, 35-40-43/81-02-30
NM	KJFA-FM3	102.9	Santa Fe	1.585kwv, 35-40-43/105-59-30
NM	KBAC-FM1	96.1	Santa Fe	1.585kwv, 35-40-43/105-59-30
NM	KLBU-FM2	94.7	Santa Fe	2.3kw, 35-40-43/105/59/30
NM	KSFQ	88.7	Viriden	calls for new station
NV	K220JW	91.9	Las Vegas	change primary to KVIR 91.9 (K-Love)
NV	K245BV	96.9	Reno	format to Spanish AC, Suave 96.9 (KLCA-HD3)
NV	K249ES	97.7	Carson City	format to Spanish AC, Suave 96.9 (KLCA-HD3)
NV	KTHX	94.5	Reno	format to regional Mexican, Que Buena 94.5
NV	K241AK	96.1	Reno	format to rock, 96.1 the Zone (KZTQ 1230)

NV	K293CA	106.5	Carson City	change primary to KOLC-HD2
NV	K245DC	96.9	Carson City	format to classic rock, The Hog (KBZZ 1270)
NV	K241AK	96.1	Reno	format to classic rock, Bob FM
NY	W249ED	97.7	Westfield	drop power to 38watts, move location
NY	WVBN	103.9	Bronxville	change calls from WFAS-FM effective 2/6/23, VCY America
NY	W287CV	105.3	Lockport	change primary to WEBR 1440 (adult cont.)
NY	W263CE	100.5	Ogdensburg	Silent 1/7/23; lost lease
NY	W295CK	106.9	Medford	granted move to 96.5 (W243ES)
OH	WGRN-LP	94.1	Columbus	drop powr from 100w to 57watts/40m
OK	KJRM-LP	93.3	Mcalister	license canceled 2/16/213
OR	KSQI-LP	91.9	Salem	Ex 91.1, 10watts, 44-59-05/123-06-39
OR	K267BM	101.3	Langlois	Silent 1/20/23 technical problems
OR	K215CR	90.9	The Dalles	100watts, 45-42-43/121-06-53
OR	KDLZ	101.5	The Dalles	570watts/573m, 43-42-43/121-06-53
OR	KMGX	100.7	Bend	format to classic rock, The X 103.7
OR	KXPC	90.1	Heno	change calls from KYTE
PA	W253CC	98.5	Bethlehem	changed format to variety
PA	W279DK	103.7	State College	format to country, Bigfoot Country Legends
PA	W280CV	103.9	Scranton	change primary to WQOR 750
PA	WSOV-LP	101.7	Millheim	100watts/-93m 40-53-18/77-29-15
PA	WLEJ-FM	98.7	Pleasant Gap	change calls from WWJL effective 3/1/23
PA	WGFM	103.9	Dushore	slogan to Gem 99 & 100
PA	W230DI	93.9	Clarkes Summit	slogan to Gem 99 & 100
PA	W258DJ	99.5	Nescopeck Pass	slogan to Gem 99 & 100
PA	W260DV	99.9	Dallas/Wilkes-Barre	slogan to Gem 99 & 100
PA	W255BO	98.9	Scranton	slogan to Gem 99 & 100
PA	W265EK	100.9	Tunkhannock	slogan to Gem 99 & 100
PR	WQHD-LP	90.7	Aguada-Aguadilla	raise power to 10 watts
RI	W284BA	104.7	Warwick	slogan to Newsradio 920 AM & 104.7 FM (WHJJ 920)
RI	W229AN	93.7	Providence	granted move to 107.1 (W269EO) due to interference
TN	W236CI	95.1	Murfreesboro	change primary to WBUZ-HD3
TN	WQJZ-LP	103.9	Murfreesboro	100watts/20m, 35-51-05/86-23-38, move location
TN	WPLA	104.9	Greenback	439watts/361m, 35-38-12/83-56-05
TN	W271AB	102.1	Nashville	format to r&b (WPRT-HD2)
TX	KVLT	88.5	Temple	raise power from 5k to 8.9kv/183m
TX	K205GH	88.7	Pampa	change freq to 88.9 gtd 2/7/23
TX	K204GQ	88.7	Dalhart	granted move to 90.9 (K215FS) due to new NCE grant on 88.9
TX	K204GP	88.7	Dumas	granted move to 88.9 (K205GI)
TX	KFXE	96.5	Ingram	raise power to 13kw
TX	KHNZ	101.3	Lefors	2kw/91m, 35-34-39/100-57-10
UT	KSGU	89.9	St. Georges	calls for new station
UT	WHCE	91.1	Highland Springs	Silent 2/10/23 for bldg renovations, 6 month STA
UT	KUUU	92.5	South Jordan	format to rhythmic AC daytimes
VA	W236DN	95.1	Leesburg	returned to air
VA	WCPC-LP	93.7	Richmond	returned to air
VA	WVSP	94.1	Yorktown	slogan to Priority Auto Sports Radio 94.1

VT	WXLF	95.3	Hartford	Slogan to 95.3 & 107.1 the Wolf
VT	WZLF	107.1	Bellows Falls	Slogan to 95.3 & 107.1 the Wolf
WA	KPNW-FM	98.9	Seattle	change calls from KNUC
WA	KPNW-FM	98.9	Seattle	format to AAA from country
WA	K208BY	89.5	Moses Lake	raise power to 250 watts
WA	KPNW-FM	98.9	Seattle	format to AAA
WI	W224EG	92.7	Madison	change primary to WMDX format to talk, Mad Radio (WMDX 1580)
WI	WCFW	92.7	Kewaunee	change calls from WYZM effective 2/20/23
WV	W216CJ	91.1	Harrisville	granted move to 90.7 (W214CG) expires 2/2/26 relay WLKD
WY	K228GC	93.5	Newcastle	move from 106.3 (K292DN)

TV CHANGES CONTINUE FROM PAGE 12

PA Bethlehem 9 WBPH-TV power change granted 80.6kw/323m
 PA Philadelphia 9 WPPT See sharing host WBPH-TV Bethlehem
 SD Sioux Falls 36 KSFL-TV call change from KWSD
 TN Knoxville 21 WKNX-TV channel change from 7, 1000kw/382m
 TN Memphis 30 WMC-TV channel change from 5, 515kw/310m, 35-10-09/89-53-10
 TX Austin 23 KNVA See sharing guest KXAN-TV.
 TX Austin 23 KXAN-TV Temporarily sharing on KNVA pending KXAN-TV repairs.
 TX Borger 31 KEYU change request 700kw/430m, 35-17-34/101-50-44; PG
 TX El Paso 18 KDBC-TV PC 1000kw/602m, 31-48-55/106-29-22
 TX Jacksonville 22 KETK-TV Operating at reduced power of 500kw/459m due to tube failure
 TX Killeen 13 KAKW-DT Operating at reduced power of 39kw/553m since Feb. 6th transmitter failure.
 TX Killeen 13 KAKW-DT Operating at unspecified reduced power since Jan. 5th due to transmitter failure.
 VA Bristol 35 WCYB-TV QC from 5, 1000kw/755m
 VA New Market 15 WVPY See sharing host WVPT Staunton.
 VA Portsmouth 20 WGNT Returned to air Jan. 12th.
 VA Staunton 15 WVPT QG from 11. DTS Site #1 195kw/689m, 38-09-54/79-18-50; Site #2 15kw/333m, 37-59-00/78-29-01; Site #3 100w/584m, 38-36-04/78-37-57
 VA Staunton 15 WVPT QG to ch. 12. Amendment to DTS site from 250w to 16w.



Get your stats in now to Fred Nordquist!

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