



VHF-UHF DIGEST

The Magazine for TV and FM DXers

March 2017



NEW! VHF & UHF-VHF **Spico** OUTDOOR TV ANTENNA WITH "QUICK RIG" — "B" CONSTRUCTION

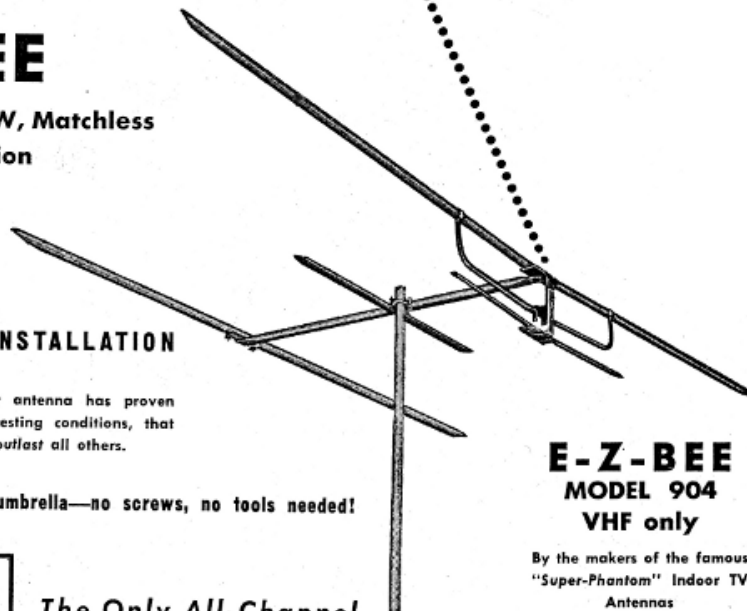
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The Official Publication of the Worldwide TV-FM DX Association

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The Answer? (1950)

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 AND MIKE BUGAJ.



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The Mailbox

PAGE TWO

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MARCH 2017

Dues Received

2/7/2017	Peter Giacobelli	NY	1-18
2/9/2017	Mike Schaffer	PA	3-18
2/16/2017	Harry Hayes	PA	2-18
2/16/2017	Calvin Glover	NC	1-18
2/16/2017	Ron Hunsicker	PA	2-18
2/16/2017	Robert Steadman	WI	2-18
2/17/2017	Juan Gualda	FL	1-18

February was another s-l-o-w month, although not as slow as January was. Thank you to everyone who renewed during February!

Amazing Elad News!

For quite some time now, DXers have wondered aloud if it might be possible to design a SDR capable of showing and recording the entire FM band, and that has just become a reality!

The Elad development team has announced the arrival of a new SDR (FDM-S3) capable of tuning and recording the entire FM band. This new SDR has a maximum bandwidth of 24.576mhz.

As of this date we don't know too much else about it. Elad made the announcement on February 18th and included a screenshot of the entire FM band being monitored using Elad software:



It is safe to say that anyone DXing the FM band with an S3 is going to need a computer with a super fast processor and lots of RAM. A 2T external HDD will probably fill up quickly on recordings. We will have to wait to see what type of a computer is needed to run this SDR. We'll also have to wait to see what the price will be. It's not going to be cheap. But...the future is here!

NRC/IRCA Convention

From Mike Sanburn of the IRCA... "The 2017 Decalomania/I.R.C.A./N.R.C Convention will be held Thursday August 17-Saturday August 19 (checking out on Sunday) at the Best Western Airport Plaza hotel, 1981 Terminal Way, Reno NV 89502. For reservations use phone number 775-348-6371 and request International Radio Club of America rate of \$100 per night plus tax. Major credit cards accepted. (Attendees are encouraged to double up, share a room and save). Airlines serving Reno include Alaska, Allegiant, American, Delta, JetBlue, Southwest, United, and Volaris. Amtrak passenger train service is available as well. Registration fee (not including banquet) is \$25 payable to Mike Sanburn, po box 1256, Bellflower CA 90707-1256. Or, by PayPal (add \$1 to cover fee) mikesanburn@hotmail.com Include contact info and club affiliation(s) if any. Information on activities, banquet, and station tours will be announced shortly. Visitors information can be found online at www.visitrenotahoe.com.

The Sorry State of the FM Band

A short time ago I was entering data into the WTFDA FM database and one of those entries was for a new LPFM in Austin, TX, KPTK on 101.1. Right away I noticed there was already a translator authorized there on 101.1 and I wondered how they'd co-exist. This week I found out.

KPTK went silent of February 16th. This is their statement to the FCC: KPTK-LP LICENSED TO COVER TO PROVIDE CITY OF AUSTIN TEXAS WITH COMMUNITY RADIO. UPON LICENSING IT WAS REALIZED WITH 7 WATTS AND IMPEDING GROUND COVER THE SIGNAL CANNOT BE HEARD ANYWHERE BUT AROUND THE TOWER VICINITY. IN ADDITION, A TRANSLATOR HAS BEEN NEWLY PERMITTED ON THE CO-CHANNEL TO BLEED OVER THE CHANNEL, LEAVING THE STATION TO BE UNSUSTAINABLE. THE MINIMUM DISTANCE SEPARATION TO THIS TRANSLATOR ABUTS DIRECTLY AT THE CURRENT SITE (KPTK-LP CANNOT MOVE ANY CLOSER TO AUSTIN, AND MOVING THE OTHER DIRECTION ENCOUNTERS TERRAIN BLOCKAGE INTO AUSTIN). THE STATION HAS TEMPORARILY POWERED DOWN TO CONSULT WITH BROADCAST ENGINEER TO VIEW AMELIORATIVE OPTIONS TO SEEK SUSTAINABLE COVERAGE BY EITHER CHANNEL CHANGE OR MOVE.

Sometimes you just have to shake your head and wonder if anyone knows what they're doing.

It also appears that we're going to have to wait one more month to find out which TV stations are staying, shutting down or moving to another channel. Some information has already leaked out from a few stations voluntarily but most have kept silent. Stay tuned to Doug Smith's TV News for more information.

That's it for February. Onward to Spring! -Mike



UPCOMING METEOR SHOWERS

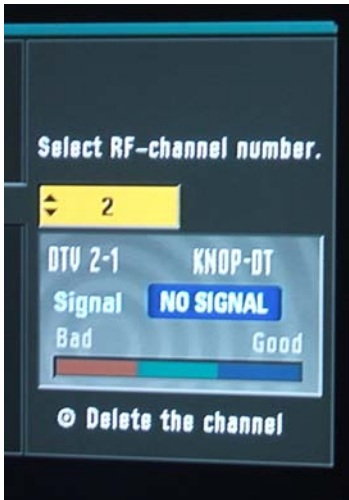
DATA FROM THE
AMERICAN METEOR SOCIETY
amsmeteors.org



Shower	Activity Period	Maximum		Radiant		Velocity km/s	r	Max. ZHR	Time	Moon
		Date	S. L.	R.A.	Dec.					
Lyrids (LYR)	Apr 18-Apr 25	Apr 22	032.5°	18:09	+33.2°	45.5	2.1	18	0400	24
eta Aquariids (ETA)	Apr 24-May 19	May 07	046.8°	22:36	-00.5°	66.5	2.4	40	0400	11
Southern delta Aquariids (SDA)	Jul 21-Aug 23	Jul 30	126.9°	22:42	-16.4°	41.0	3.2	16	0300	07
Perseids (PER)	Jul 13-Aug 26	Aug 12	140.0°	03:12	+57.6°	60.5	2.2	100	0400	19
Orionids (ORI)	Aug 25-Nov 19	Oct 22	208.9°	06:24	+15.5°	67.1	2.5	15	0500	03
Leonids (LEO)	Nov 05-Dec 03	Nov 18	236.1°	10:17	+21.5°	69.7	2.5	15	0500	00

TV News

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 Pleasant View, TN
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<http://www.w9wi.com>





March 2017





Abbreviations:

- Aux **A**uxiliary (backup) transmitter
- FTP **F**ailure to **P**rosecute
- ROA **R**equest of **A**pplicant
- STA **S**pecial **T**emporary **A**uthority
- LPDTV **L**ow **P**ower **D**igital **T**V
- DRT **D**igital **R**eplacement **T**ranslator

News:

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

Location	RF Ch	Callsign	Notes
			
Alabama			
Mobile	47	WWBH-LD	Requests digital conversion from ch. 27, 14.2kw, 30-36-44/87-38-41 (Robertsdale)
			
Arizona			
Sierra Vista	20	K20FO	Requests power reduction to 42kw, 31-28-53/109-57-32; granted & on the air

Location	RF Ch	Callsign	Notes
			
Arkansas			
Hot Springs	18	KTVV-LD	Requests site change to 34-37-11/92-43-23 (Benton); granted
Hot Springs	41	KENH-LD	Call changed from K41NH
Jonesboro	38	K38OR	Granted power reduction to 1kw
			
California			
Cloverdale	13	KQTA-LD	Requests site change to 38-19-56/122-35-40 (Sonoma Mtn.); granted
Hemet	21	KDUG-LD	Granted power reduction to 1 watt, 33-12-17/117-03-19 (Escondido); power reduced
Keyes	47	KFMS-LD	Power increased to 15kw, 38-38-53/121-28-37 (Sacramento)
Los Angeles	2	KYAN-LD	New to air, 300 watts (Hispanic Family Christian Network)
Los Angeles	34	KMEX-DT	New backup transmitter on the air, 255kw/956m, 34-13-36/118-03-59
<i>Sacramento</i>	6	<i>KEFM-LP</i>	<i>Requests site change to 38-43-10/120-59-21 (Pine Hill, Skinners)</i>
Sacramento	21	KMAX-TV	Granted power change to 545kw/606m, 38-14-24/121-30-03
<i>San Diego</i>	6	<i>KRPE-LP</i>	<i>Granted site change to 33-18-30/116-50-53 (Mt. Palomar)</i>
Santa Rosa	3	K03IC	Requests power reduction to 5 watts
			
Delaware			
Georgetown	42	W42EI	Requests power increase to 12kw, 38-38-35/75-12-57; granted (Millsboro)
Rehoboth	33	W33DP	Requests power increase to 15kw, 39-13-44/74-40-54; granted (WSLT-FM Palermo, N.J.)
			
Florida			
Bartow	14, 36	W14DQ, W36EC	Request power reduction to 7kw; granted & power reduced.
Fort Walton	29	WEDS-LD	Requests power increase to 13kw; granted
Gainesville	17	WODH-LD	Requests site change to 30-16-34/81-33-51 (Jacksonville); amended to add power increase to 7kw
Gainesville	25	WFEO-LD	Requests power reduction to 1kw, 30-16-34/81-33-51 (Jacksonville)

Location	RF Ch	Callsign	Notes
Jacksonville	12	WJKF-CD	New to air, 730w, 30-16-51/81-34-12 (Abacus Television)
Ocala	18	WQFT-LD	New to air, 15kw, 29-21-23/82-17-56 (Digital Broadcasting LLC); requests power reduction to 4kw, 29-01-25/82-05-37
Sebring	38	WALM-LD	Requests power increase to 8.82kw



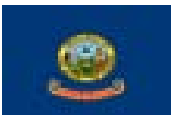
Georgia

Augusta	29	WDZC-LD	Call changed from W29DY
Chatsworth	33	WNGH-TV	Power changed to 400kw/550m
Cochran	7	WMUM-TV	Power changed to 28kw/337m



Hawaii

Honolulu	48	KHHI-LP	Granted site change to 21-19-45/157-53-18; on the air
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Idaho

Coeur d'Alene	22	KXLY – 0819ADR	New to air, 15kw, 47-39-33/116-57-48; DRT for ch. 13 Spokane
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Illinois







Quincy	40	WVDM-LD	Call changed from W40DM
Rockford	22	W22EE	Power reduced to 4.8kw, 42-17-46/89-10-00 (WIFR site)





Indiana


Indianapolis	30, 33, 39	WSDI-LD, WQDE-LD, WUDM-LD	Calls changed from W30DI, W33DE, W39DM
Wolcott	49	KPDS-LD	Call changed from W49DS


Location	RF Ch	Callsign	Notes
			
Iowa			
Cedar Rapids	32, 34, 46	KFKZ-LD, KMZM-LD, KMKI-LD	Calls changed from K32KS, K34MM, K46MK
			
Kentucky			
Bowling Green	35	WCTZ-LD	Requests power increase to 15kw, 36-16-04/86-47-44 (WNPX/WPGD tower, Nashville)
			
Massachusetts			
Springfield	34	WTXX-LD	Requests power reduction to 7.5kw; granted & on the air
			
Michigan			
Muskegon	49	WMKG-CD	Requests conversion from analog 38, 15kw, 43-10-31/86-12-43; granted
			
Minnesota			
Minneapolis	28	KILW-LD	Call changed from K28LW
Minneapolis	49	KMQV-LD	Call changed from K49MQ
			
Missouri			
Branson	25	KYCW-LD	Requests power reduction to 630 watts, 37-03-53/93-10-30; call changed from K25BD
Columbia	29	KBKV-LD	Requests power increase to 8.3kw, 38-26-14/90-28-40 (Arnold)
Joplin	45	KRLJ-LD	Call changed from K45LR


<i>Location</i>	<i>RF Ch</i>	<i>Callsign</i>	<i>Notes</i>
			
Montana			
Great Falls	19	KBGF-LD	Requests site change to 47-32-07/111-17-02; granted
Quartz Creek	16	K16KZ	Requests power increase to 431w, 48-26-19/115-31-36; granted (Libby)
			
Nebraska			
Omaha	41	KQLP-LD	Call changed from K41LP
			
Nevada			
Laughlin	32	KMCC	New transmitter on the air, 5kw/547m, 35-56-45/115-02-35 (Arden Peak, Henderson); see text
			
New Hampshire			
Concord	22	WLEK-LD	Requests power reduction to 2kw, 42-55-18/71-13-32 (Derry) but dismissed
			
New Jersey			
Newton	18	WMBC-TV	Granted Special Temporary Authority, see text.
			
New Mexico			
Caballo	18	K18LP	Converted to digital, from analog K45HJ, 1.2kw
Santa Fe	47	K47MQ	Power increase granted to 15kw, 35-53-09/106-23-12 (KNLA-FM, Pajarito Mtn.)
Taos	21	K21FD	Granted Special Temporary Authority to operate at 1kw (vs. Authorized 2.1kw) due to Forest Service objection


Location	RF Ch	Callsign	Notes
			
New York			
Auburn	6	WNDR-LP	Call changed from WMBO-LP
Elmira	26	W26BF	Requests conversion to digital, 15kw






			
North Carolina			
Wanchese	6	WMTO-LP	Granted site change to 36-17-45/75-55-14 (Poplar Branch); site changed.

			
Ohio			
Findlay	22	WFND-LD	Granted Special Temporary Authority to operate at 7.5kw (half power) due to transmitter failure

			
Ontario			
Belleville	26	CICO-DT-53	To go dark July 31st (see text)
Chatham	33	CICO-DT-59	To go dark July 31st (see text)
Cloyne	44	CICO-DT-92	To go dark July 31st (see text)
Kenora	13	CJBN-TV	Has gone dark
Kitchener	28	CICO-DT-28	To go dark July 31st (see text)
London	18	CICO-DT-18	To go dark July 31st (see text)
Ottawa	24	CICO-DT-24	To go dark July 31st (see text)
Thunder Bay	9	CICO-DT-9	To go dark July 31st (see text)
Windsor	32	CICO-DT-32	To go dark July 31st (see text)

			
Oregon			
Brookings	31	K31GP	Converted to digital, 400 watts

			
South Dakota			
Pierre	27	K27HJ	Converted to digital, 6.76kw

Location	RF Ch	Callsign	Notes
			
Tennessee			
Memphis	45	KMDK-LD	Call changed from K45MD
Nashville	34	WJNK-LP	Requests conversion to digital, 15kw; granted
			
Texas			
Amarillo	47	KMZB-LD	Requests power reduction to 2kw, 35-10-25/101-57-12; (KLMN-FM) call changed from K47MS
Dallas	18	KPFW-LD	Requests power reduction to 4kw, 32-38-22/96-40-37
Plainview	31	K31MX	Granted power increase to 15kw, 33-30-07/101-52-19 (KAMY-FM, Lubbock)
Rio Grande City	22	KTLM	Power reduced to 14.92kw (Digital Replacement Translator in Harlingen)
San Antonio	19	KOBS-LD	Requests site change to 29-46-03/98-14-35 (New Braunfels)
Uvalde	15	K15BV	Requests conversion to digital, 4.5kw, 29-31-54/99-44-38 (Concan)
			
Virginia			
Crozet	35, 38	WUDJ-LD, WFWG-LD	Calls changed from W35DJ & W38FW
			
West Virginia			
Clarksburg	13	WVUX-LD	Granted power increase to 2.7kw; power increased; city changed from Fairmont
			
Wisconsin			
Milwaukee	28	WTMJ-TV	Application for new backup transmitter, 28.9kw/159m; granted
Wausau	29	WEHG-LD	Call changed from W29EH
Wausau	47	WEKK-LD	Call changed from W47EK

You may wonder why I've been rather silent about the spectrum auction...

Strict anti-collusion requirements were placed on auction-eligible stations. I work for such a station. The idea is to preserve the integrity of the auction.

Imagine, by analogy, a farm auction. Acme Farms are selling their land to developers – and putting their farm implements up for auction. Farmer John and Farmer Dave show up at a coffeehouse

before the auction. Farmer John says "I *really* want that tractor – and I know you want the combine. If you don't bid on the tractor, I won't bid on the combine and we'll both come out ahead." Of course, at the expense of Acme. The Commission doesn't want WAAA-TV to tell WBBB-TV they're not participating in the auction. WBBB would bid higher, knowing it would be more likely their station would need to be purchased to clear the desired amount of spectrum.

Collusion doesn't need to be direct or intentional. Maybe Farmer John doesn't tell Farmer Dave he's not bidding on the combine – he just tells his wife. But Farmer Dave overhears the conversation from the next booth.

Anyway, as an employee of an auction-eligible station I've been prohibited from discussing the auction while it was running. Now that it's complete, we're beginning to see results discussed. All of this is based on unofficial information. Some unofficial information has been just plain *wrong*.

I don't intend to publish any details in this column until the FCC issues its Public Notice with the official results. The Commission has told us to expect that Notice at the end of March. Murphy's Law requires it will happen the day after the deadline for the April *VUD*.

*I don't have a contract with Murphy. Maybe I can give Doug some wiggle room.
- Your humble VUD editor ;)*

The FCC has issued a Notice of Proposed Rulemaking which would allow TV stations to convert to ATSC 3.0. The proposal would:

- Allow stations to voluntarily switch to ATSC 3.0.
- *Not* require new TV receivers to contain an ATSC 3.0 tuner.
- Require "local simulcasting" in ATSC 1.0.
- *Not* require cable to carry ATSC 3.0 signals. (they would continue to be required to carry ATSC 1.0)

"Local simulcasting" means a station broadcasting in ATSC 3.0 would be required to arrange for some other station to simulcast their signal in ATSC 1.0. They do ask whether it might be advisable to allow creation of new temporary "host" facilities to implement this simulcasting. Doing so would require the use of vacant channels – assuming any still exist after the repack.

The Commission believes the A/321 standard is sufficient to ensure ATSC 3.0 signals won't interfere with each other, or with ATSC 1.0. They seek comment on that topic.

At the end of January, TVO announced plans to shut down most of their over-the-air transmitters at the end of July. TVO expected to save \$1million by silencing the eight transmitters. Most of their formerly-extensive network of transmitters had already been silenced in 2012, rather than convert to digital.

About three weeks later, they changed their mind. The Ontario Government provided TVO additional funding to preserve the transmitters.

Either way, TVO would have remained available on cable and satellite. They also planned to maintain the transmitter of CICA-TV Toronto. I *believe* their CRTC license requires at least one over-the-air transmitter.

Approval has been granted for an Australian couple to purchase several radio stations. They already manage the stations and own a 20% share. Normally, foreign ownership in excess of 25% is not permitted. The Commission has in the past waived the limit to allow as much as 49.99% foreign ownership, but to my knowledge this is the first time 100% foreign ownership has been allowed. The Commission staff consulted several Executive Branch agencies before approving the transfer.

WMBC-TV operates a two-transmitter Distributed Transmission System. One transmitter is located near Montclair State University; the other is on the Empire State Building in NYC. The Montclair site suffered a transmission line burn. Special Temporary Authority was granted to operate this site at about 4kw power. (normal licensed power is 1000kw) The STA also allowed the Montclair transmitter to be taken off the air altogether pending repairs. The NYC site remained operational.

DXer reports suggest the work has already been completed and the Montclair site is back on the air at full power.

KMCC's Arden Peak transmitter forms a two-transmitter Distributed Transmission System. Transmitter #1 is KMCC's existing 1000kw rig at Dolan Springs, Arizona.

Stations Get Word On Post-Auction Channels

Broadcasters are now reviewing so-called confidential letters from FCC telling them if they have to move to new channels in the post-auction repack of the TV band, Those that do have to relocate are being given new channel assignments and technical parameters for them.

Written by Harry A. Jessell for TVNewsCheck [Feb 9, 2017]

Source: <http://www.tvnewscheck.com/article/101428/stations-get-word-on-postauction-channels>

TVNewsCheck
THE BUSINESS OF BROADCASTING

The FCC has begun sending out the co-called "confidential letters" to TV broadcasters telling them whether they have to move to new channels in the post-auction repack on the TV band, and if so, which ones, according to broadcasters and their attorneys.

For the migrating stations, the letter stipulates when they have to move and the technical parameters of the new channels, including tower location, antenna height, type of antenna (directional or non-directional) and power.

The FCC is sending the letters out now so that broadcasters have as much time as possible to plan for their mandated channel moves.

"Some preliminary activities include but are not limited to: retaining a technical or zoning specialist, conducting structural analysis, planning construction, installing a new power line, selecting equipment and placing orders," the letters say.

The repack — or reorganization — will segregate the remaining TV spectrum from the newly reallocated wireless spectrum.

The FCC will not publicly announce the total number of stations that will be moving and their channel assignments until March when the incentive auction is expected to be completely closed.

That notice will also include a complete list of the auction "winners," what stations they sold and how much they got for them.

Once that public notice is issued, stations will have no more than 39 months to get to their new channels. After that deadline, stations can no longer broadcast on their current channel.

Some stations will have considerably less time. In an effort to insure the repack proceeds are efficiently as possible, the FCC is conducting the repack in 10 phases rather than all at once. Each phase will have a different completion deadline.

The confidential letter specifies which phase each station is in and its deadline for completing the move.

Congress has mandated that the FCC set aside \$1.75 billion of the auction proceeds to reimburse broadcasters for their redo expenses.



Coast to Coast TV DX

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

Send reports by the 15th of each month to:

Nick Langan

42 Holly Park Drive

Tabernacle, NJ 08088

E-mail: nickl@wtfda.org

The Editor's Note

A tip of the hat to Ed Phelps in Kentucky, who broke his tropo record with a decode of XHOR-DT-33 Matamoros, MX on February 23, a distance of 926 miles. Well done, Ed! This was during a strong Gulf of Mexico tropo event that funneled northward.

Much of the past month has continued to feature well above average temperatures east of the Rockies, fueling some tropo opportunities across the Deep South and even around the Great Lakes on the 19th.

Glenn Hauser

Enid, OK** OKLAHOMA. Enid, RF channel 48, KUOC-LD, Power increased to 7.5 kW, 36-07-52/96-04-13 (Chandler Park, Tulsa) (FCC News, Dec WTFDA VHF UHF Digest via DXLD) That still won't get any signal into Enid from where it's really located, Tulsa. So why in the world license it to Enid?
(Glenn Hauser, Enid, DX LISTENING DIGEST)

** OKLAHOMA. Altho the premise of the title is debatable, one of few gems on OK commercial TV is a feature series of short reports, 'Is This A Great State, Or What?'. Galen Culver has been producing three of these a week for 25 years now, some 3000 stories (that would really multiply out to 3900), celebrated Dec 25 at 1730 UT on KFOR with a half-hour special of clips. I haven't found a link to that, but start here for individual ITAGSOW stories: <http://kfor.com/?s=great+state&category=great-state>
(Glenn Hauser, Enid, DX LISTENING DIGEST)

** OKLAHOMA. To Manager of OETA:

I cannot ignore what has happened this month, just so you know that some viewers care ---

Has there been another overall budget cut?

We miss among others: Texas Parks & Wildlife, Daytripper, Tracks Ahead - Tho Tracks was full of repeats --- is another season upcoming later?

The TX shows were so fully ``sponsored``, it's hard to believe OETA had to pay for them?

NHK World News! We never missed this, despite it being delayed 7 hours. I guess they have removed OKC from their weather maps.

Glad that BBC is usually available live at 4 pm, and another chance at 5.

Moving prime-time repeats to afternoons on OKLA instead of mornings is better for us, but now the stuff on OKLA mornings is pretty much disposable.

We also watched most of the 10 pm-midnight Sunday evening shows on OKLA, and lamented when various were previously removed. Now they are all gone.

Evidently you are filling time with more and more repeats of OETA productions, which is understandable, except when we remember how much else is available out there from other stations.

The fillers at breaks concerning parking meters, space pioneers, etc., etc., drive us nuts and dashing for the mute button, not because they are bad, but because they have been run into the ground long ago. If anyone at OETA actually watched the output continuously, surely they would feel the same. PLEASE, just play some music or even dead air for a minute would be a great improvement.

With the exception of Sherlock, and Doc Martin (if ever we get to new episodes), we are not interested in Downton and all the other British dramas, occupying so much airtime.

Online schedule: some OETA-only productions lack any content info, like interview shows with people we have never heard of. Even if we have the name, we still don't know what they are about.

PBS shows, Charlie Rose and Tavis Smiley never have any guest info either, just generic blah blah. Such info would be a big help in planning viewing, as not every guest/topic is of interest.

Best wishes, Glenn Hauser, Enid, early January 2017 (to OETA Interim Manager Mark Norman, via DXLD)

** OKLAHOMA. RF and Virtual 13, Dec 23 at 0100 UT, KETA/OETA airs 'What's the Deal' about TV towers, including de-constructing the KWTW/OETA tower which was once the world's tallest man-made structure (1572 feet, I think). Originally a bunch of fun short filler segments, tied together for less than half an hour, streamable in segments via <http://videos.oeta.tv/show/whats-deal/> It seems the nerdy/cute gal who does it is never identified, not even in the credit roll or link (Glenn Hauser, OK, DX LISTENING DIGEST)

** OKLAHOMA. I previously wrote about What's the Deal? Fun show on OETA, but noted presenter was never identified by name. Now she is:

<http://www.oeta.tv/watch/whatsthedeal/>

''What's the Deal? is a show about finding out how things work. We ask the questions and find the answers that will help you understand more about our world! So if you've ever looked at the world around you and thought, "What's the deal with...", then this is the show for you! What's the Deal? is an OETA-produced digital series hosted by Jessi Crino. [short for Jessica?]

This series is designed to teach fourth through eighth graders science, mathematics, engineering and technology concepts in a curious way. What's the Deal? is made possible by the Oklahoma Association [sic] of Electric Cooperatives (OAEC).''

She's also all over social media; search on her unique name. Also mentioned in this story:

OETA CELEBRATES 60 YEARS ON AIR AS IT FACES NEW CHALLENGES

By George Lang | November 4, 2016

<http://okgazette.com/2016/11/04/oeta...ew-challenges/>

Behind the scenes, Jessi Crino is also credited as director of the Oklahoma News Report (Glenn Hauser, Enid, DX LISTENING DIGEST)

** OKLAHOMA. RF 42, 20, 11, Feb 5 at 1702 UT, with fog this morning not yet burnt off, check for locally-enhanced tropo. Full UHF/VHF DTV bandscan finds Bad signals on these channels, all of which correlate with Tulsa/Muskogee, although at least one other OK station is on each of them, mostly translators or LD.

FCC's repacking will soon shake up the entire TV bands, eliminating everything above 36. Hedging bets, e.g. KWTW OKC ``9'' on RF 39 already owns KSBI RF 23, which is where I bet KWTW will wind up (Glenn Hauser, OK, DX LISTENING DIGEST)

** OKLAHOMA. Mark, So how will repacking affect OETA/KETA? Will you be sharing with commercial stations? Will Kids and Create [subchannels 3 & 4] go away? Hope not OKLA!!

From Enid's standpoint with unreliable ch 13 reception, it sure would be nice if you wound up back on a (clear!) UHF channel. As (with current antennas) we get solid reception of all full-power OKC U's (as well as KOCO - 7). Regards, (Glenn Hauser to Mark Norman, OETA, Feb 14, via DXLD)

Glenn, Thanks for your note. OETA was not required to repack, which is a blessing. Having to repack would have cost OETA and might have risked the future of the network. I am still very concerned for OETA's future as our state funding has been cut by 65% in the last three years, more than any other state network. I am not sure how we will survive another major cut.

I am sad you do not get our signal better in Enid. If you get KOCO which is on VHF 7, you should get KETA VHF 13. Our signals both travel about the same distance. The UHF Channels do get out better by about 10 to 15 miles but the FCC is repacking more stations down to VHF and they sold off all the UHF Channel 38 and above.

Channel 9 for example is on Channel 39 UHF for now but they will be moved to their other UHF Channel 23 in town that they own [KSBI]. Whether Channel 23 UHF will get to Enid as well as their Channel 39 I am not sure. The height and size of your antenna in Enid will be the best option you have to improve you over the air reception. None of the OETA Sub-channels will go off their air since we do not have to give up our channel or share our channel, so we feel like this was a win-win for our network.

We will be losing 4 translators which will require frequency changes if we can find a place to move. Channel 38 in Ponca City, Channel 48 in Buffalo, Channel 46 in Durant and Channel 47 in Duncan will have to go off the air in the next couple of year or move to a new channel.

Thanks for the note. I have moved up to Interim Executive Director for a few months. My plan is to retire in the summer but hope you will continue as a viewer.

(Mark Norman, Interim Executive Director
Oklahoma Educational Television Authority
Office 405-841-9250 Cell 580-620-1200
mnorman@oeta.tv
Website | Facebook | Twitter | Instagram

THE BEST IS YET TO COME ON OETA
FESTIVAL 2017
Hamilton's America, Victoria, Brit Floyd, BrainFit
and Much More Only on OETA This March!
Support Smart TV & Shows You Love at OETA.tv
Feb 14, to gh, via DX LISTENING DIGEST)

** OKLAHOMA [and non]. RF TV channel 48, February 22 at 1530 UT, yay! Still ONE NTSC analog station operating around here, but visible only with tropo enhancement, which is big per Bill Hepburn's maps, possibly extending from here to Michigan, but at least with my antenna aimings, have to be satisfied with closer stuff.

48 is KOCY-LP Oklahoma City, per W9WI.com with 18.1 kW, and a CP for 15 kW from exactly the same site, 35-37-51, 97-29-30, why? Programming is Estrella TV but including large full-screen local IDs, // and almost synchro with the full power KTUZ-RF 29 transmitter but virtually remapped as ``48-1``. Estrella TV is the low-brow SS network with more T&A than the others, and that guy in a clown costume hosting a talkshow. Real ch 48 signal is weak, sometimes with no audio. I tune thru the entire UHF and VHF bands on the analog TV looking for any other NTSC, but none found. Are there any others still operational in the OKC market? Or anywhere in OK? So switch to DTV DX:

At 1530, RF 26 has KTEN Ada in well, as 10-1 KTENNBC, 10-2 KTENCW, and 10-3 KTENABC. Caught a local weather break-in to Today Show.

At 1535, RF 11, KOED Tulsa is in solid with the four OETA channels, while ``our`` // 13 KETA is breaking up as usual. Signal quality meter shows it constantly fluctuating up and down even under dead conditions, no possible CCI.

Zenith STB bandscan around 1535-1540 UT gets all these BAD signals too weak to decode: 8, 12, 14, 19, 21, 22, 28, 31, 36, 38, 42, 44, 47. And these `locals` are not making it either, obviously due to DX QRM: 15, 17 Enid, 23, 27, 46. (As for K17JN-D, the six-channel 3ABN satellator, it's still very much on, altho Rabbitears.info makes it DK17JN as if Deleted!)

At 1541, RF 18 bears KFSM-DT 5-1, NBC from Fort Smith AR, along with 5-2 KXNW-DT 34 with a 34 bug in LR, listed as MyNetwork; and 5-3 as AntTV. City-to-city distance for my `greatest` DX now is 333 km = 207 miles.

Also on RF 20, 19-1 KQCW-HD = CW Tulsa

On RF 45, my Sanyo screen remaps to 6-1 without showing or hearing anything, yet labeled as KSN-HD, which is the RF-45 in Wichita, really 3-1! Same on 6-2 and 6-3. Then at 1553, RF 45 = 6-1, KOTV

Tulsa is black and silent, ``scrambled program`` --- ha ha, another defect of this TV set; not transmitted scrambled but confused by DX CCI. Its OTA DTV tuner is much less sensitive than the Zenith STB, and does not display any signal meter, nor will it tune up and down thru each channel, only from what has been auto-programmed not during a DX opening.

Also ``scrambled program`` are 6-2 labeled as KQCW-SD, and 6-3 as NewsOn6. Note that CW is on both RF 20 and RF 45 in Tulsa, why? They will soon have to dispense with everything on 45. At 1647, RF 45 is now remapping to 3-1 ``scrambled program``, i.e. KSNW Wichita which is certainly NOT scrambled. Enough of that, as tropo is burning off this morning.

Next morning, Feb 23, similar situation as we are just beyond the western boundary of a slightly enhanced tropo area. (This is to be a near-record February day with highs in the 80s!)

At 1523 UT I start by checking analog 48, and KOCY-LP OKC with Estrella TV is in much better than 24 hours ago --- BUT the transmitter keeps dumping off the air for about a minute and back on, e.g. approx.: -1527*, *1528-1529*, 1530-1539*, 1540-1541*, *1542-1544*, etc. etc. No such interruptions on DTV simulcast via RF 29, KTUZ as 48-1. Real 48 fades out around 1630.

Bandscan finds these BAD ones around 1530-1533: 28, 31, 34, 35, 36, 45, 47; also 21, 19, 12. All of these could be Okies if not adjacents.

At 1533-1537 UT I survey RF 42, KBZC-LD OKC with its multichannels, before it fades into BAD. All of them show same PSIP ID as KBZC-LD, so one must look for bugs elsewhere to figure out what each of 7 channels carries:
42-1, ? [rabbitears shows American Sports Network]
42-2, Live from Studio 6B [re: Tuff TV]
42-3, game show, unknown [re: BUZZR] [does that lead to KBZC calls?]
42-4, Country LR bug [re: The Country Network]
42-5, QVCover [re: plain QVC]
42-6, QVCPlus
42-7, another shopper with jewelry, LC [re: Shop LC]
This signal is normally invisible here. W9WI.com agrees with the subchannel lineup on this 7.2 kW

ERP station, explaining that LC means Liquidation Channel (Glenn Hauser, Enid, DX LISTENING DIGEST)

** OKLAHOMA. RF 48, Feb 24 at 0120 UT, I see that KOCY-LP is visible again in analog with Estrella TV, now that it's after sundown with a little help from the troposphere, after a very warm day before a plunge tonight to near freezing. Then it's gone again, as the signal is cutting off the air and on, like in the morning, e.g. 0120-0121*, *0122-0123*; then, mostly off. So if we do NOT see it in Enid, it could be because it is really off the air, rather than not propagating. I wonder how long this has been going on? Surely a turn-off for OTA NTSC viewers in OKC area, if any.

RF 42, KBZC-LD, Feb 24 at 0123 UT, another OKC low-power, is also in again, and stronger than this morning, stays locked in for a while with all seven channels. I try Country on 42-4, with headphones, and indeed the music is stereo but with some IADs. This does not seem to correspond to video breakup so suspect it's transmitted that way. 42-1 is indeed American Sports Network, with BKB; and 42-2 Tuff TV has an icehockey game. Faded below threshold decoding circa 0200 UT (Glenn Hauser, OK, DX LISTENING DIGEST)

** OKLAHOMA. RF 45, 42, 38, 11, Feb 20 at 1530, Bad DTV signals register thanks to area tropo across central OK extending into KS and TX, per Bill Hepburn's map for 1500 UT. I sit on 38 hoping it will break thru, but not; probably the OETA translator in Ponca City, K38AK-D, altho my antenna is not pointed that way.

BTW, concerning OETA not having to repack, but losing translators above channel 37, Mark Norman's reply to me about unsolid reception of KETA-13 in Enid, compared to KOCO-7: W9Wi.com shows twice the power on KOCO, 101 vs 50 kW from KETA, HAATs 370 and 462m respectively. It could also be that my antennas provide less gain at the hi end of VHF compared to the lo end of hiband. The higher frequency should also require more precise aiming. So KETA should at least double its power rather than forcing fringe viewers to improve antennas (Glenn Hauser, OK, DX LISTENING DIGEST)



Southern FM DX
 John Zondlo – 4009 Driftwood Circle – Yukon, OK 73099
southernfmdx@wtfd.org – Deadline: 15th
 March 2017

Fred Nordquist – Moncks Corner, SC – FM03af – all new

Antenna: APS-13, Receivers: Sangean HDT-1X and AirSpy with SDR console

12/5/16 Gw

2012 W221CI 92.1 SC Summerville, RDS PI:FFFF – ‘WXB’ PS: The City 92.1 & 102.1 The City,
 //AM 1450 WQNT 16

12/7 Es

1226 CKOA 89.7 NS Grace Bay, local area code/ad 1382

12/7 Gw

2338 W234CV 94.7 SC Charleston, RDS PI: FFFF – ‘WXB’ PS: 94.7 ESPN

12/8 Gw

0029 W253BW 98.5 SC Charleston, RDS PI: FFFF – ‘WXB’ PS: The City 92.1 & 102.1 The City,
 //AM 1450 WQNT 27

1349 W254PK 102.1 SC Charleston, RDS PI: FFFF – ‘WXB’ PS: The City 92.1 & 102.1 The City,
 //AM 1450 WQNT 27

12/17 Tr

1840 WVHY 97.1 GA Axson, local ads, oldies 207

12/21 Tr

0104 WUWF 88.1 FL Pensacola, HD over local 456

0111 WOWB 90.9 AL Brewton, RDS PI: 7BDD, PS: WOWB90.9, SID, relog, mx 434

0120 WFXX 107.7 AL Georgiana, RDS PI: 6449, PS: FOX 1077, adult hits 407

0136 WTVY 95.5 AL Dothan, ID, country 338

0150 WAVH 106.5 AL Daphne, RDS PI: 56D1, talk 510

0157 WRBH 88.3 LA New Orleans, ID 630

1/25 Tr

0835 WMRK 107.9 AL Shorter, HD 359

1005 WFAL 105.9 GA Milner, “The New Zoom 105.9/101.1” 239

2350 WJGO 102.9 FL Tice, “102-9 Bob FM,” local ad 469

1/26 Tr

0025 WURN 107.1 FL Key Largo, SS, “Exitos 107.1” slogan 550

2/12 Gw

2000 W261DG 100.1 FL Charleston, “Heaven 1390,” black Gospel // AM 1390 WSPO 28

Total to date: 3406. Many new to air Charleston area locals being logged over the past year, plugging up channels in the southern direction and making it more difficult for Es DXing Caribbean and Central America.

Gus Mancuso – Cheverly, MD

12/19 Tr

1802 W240DJ 95.9 DC Washington, // WOL 1450 Washington DC, 100 watts, cutting into WWIN almost halfway to Balto. even though directionalized south.



DX Bulletin Board Loggings

for February 1st thru 22nd, 2017

wtfdadxbb.vci.net

For a user ID and password to enter the site please email either Ed Phelps (nn2e@vci.net) or Mike Bugaj (mikeb@wtfda.org).

- Feb 22 13:08 Tr 101.9 CKFX North Bay, ON, North Bay ads & News, 216 mi de Jon ON FN03
- Feb 22 12:51 Tr WDAF 34/4, KTAJ 21/16 & KSHB 42/41, Kansas City, MO mkt. 383-386 mi. from IL DX site. de indysteve IN EM69
- Feb 22 12:04 Tr WBAY 23/2, Green Bay, WI 261 mi. from IL DX site. de indysteve IN EM69
- Feb 22 11:58 Tr WEAU 38/13, Eau Claire, WI 326 mi. from IL DX site via autologger @ 08:13. de indysteve IN EM69
- Feb 22 11:57 Tr WHLA 30/31, La Crosse, WI 291 mi. from IL DX site via autologger @ 09:07. de indysteve IN EM69
- Feb 22 11:55 Tr WHRM 24/20, Wausau, WI 314 mi. from IL DX site via autologger @ 11:21. de indysteve IN EM69
- Feb 22 06:29 Tr 162.500 WWF-70 Gaylord, MI - 281 mi - de WRH ON FN03
- Feb 22 04:12 Tr 104.7 WKJC Tawas City, MI, "KJC Country", Good Signal. 238 mi de Jon ON FN03
- Feb 22 04:07 Tr 99.7 WUGN Midland, MI, "myflr.org", 274 mi de Jon ON FN03
- Feb 22 01:25 The APRS map is starting to look good... de Jon ON FN03
- Feb 21 23:38 Curious how much of the US is forecast for fog? They have dense fog forecast tonight/tomorrow morning for MO also de Jim-T MO EM37
- Feb 21 22:25 WKSU 89.7 was in here for most of yesterday. de Jon ON FN03
- Feb 21 21:59 Jon, I had a few Buffalo DTVs last night. So it was extending up in your territory. The good tropo seems much less frequent east of here compared to west. de Andrew K OH EN91EB
- Feb 21 21:39 I looked at the weather maps and the fog is going to extend from here into MI. de Jon ON FN03
- Feb 21 21:27 Fog predicted from 8 PM to 11 AM here. Maybe it will bring in some tropo. de Jon ON FN03
- Feb 21 21:21 Chris, Jon... the forecast doesn't look that great for you guys. You gotta move out to a spot in the Midwest (tropo alley). de Andrew K OH EN91EB
- Feb 21 18:32 Hopefully it will move east... de Jon ON FN03
- Feb 21 17:25 That Red blob has been real persistent o/WI/IA. Need that here. Right now it's a "red blob drought" here in Hudson Valley. de dtvdxer NY FN31
- Feb 21 16:25 Tr WBAY 23/2, Green Bay, WI 261 mi. from IL DX site. Red-orange blob moving closer. Some sigs picking up. de indysteve IN EM69
- Feb 21 03:04 I just found out that WNEO is moving to RF 29. Due to WNEO's location, none of the Cleveland, Akron, or Youngstown DTVs can be adjacent on 28 or 30. And most of the Pittsburgh DTVs cannot be on 28 or 30 either, except WTAE and WPCB. de Andrew K OH EN91EB
- Feb 21 03:02 Jim, it lists every possible channel in which there may be an interference issue. There's cochannel, and +/- adjacent channel. An "X" indicates it won't work. You can look up any particular channel by replacing the facility ID in the HTML address. Facility IDs can be found for all channels on a RabbitEars TV query. de Andrew K OH EN91EB
- Feb 21 02:06 Re 18:27 - I don't even understand how Trip's repack checker works! de Jim-T MO EM37
- Feb 20 23:08 Tr 90.1 WUCX Bay City, MI, MI News Headlines, 225 mi de Jon ON FN03

- Feb 20 20:18** Here's the web address: <https://www.facebook.com/WesternReservePublicMedia/?fref=ts> Then first visitor post from Timothy Blanks. Read first response from Western Reserve PBS de dtvdxer NY FN31
- Feb 20 19:37** Chris, I still can't find it. I checked their Facebook page, but I'm just not seeing it. de Andrew K OH EN91EB
- Feb 20 19:16** Oh sorry, I didn't see you mentioned it was on their Facebook. de Andrew K OH EN91EB
- Feb 20 19:14** Chris, where are you finding that on the Western Reserve PBS page??? de Andrew K OH EN91EB
- Feb 20 18:27** Wow, thanks for finding that out Chris!! That's good to know. de Andrew K OH EN91EB
- Feb 20 18:27** Chris, here is a link to a useful tool on Trip's website. It shows any interference issues that may occur. Here is WBGU, but you can edit the facility ID number in the web address and play around with it... <https://www.rabbitears.info/repackcheck1511.php?fid=6568&ch1=22> de Andrew K OH EN91EB
- Feb 20 18:27** From the Western Reserve Facebook Page: "WNEO Channel 45 is assigned to repack to Channel 29 and WEAO Channel 49 will repack to Channel 24" de dtvdxer NY FN31
- Feb 20 18:24** I doubt WSFJ and WJET are going to remain on 24. I'm predicting WQLN will go to 24, and maybe WWHO will go to 24. The FCC will do a lot of reshuffling. de Andrew K OH EN91EB
- Feb 20 18:19** [18:04] Could be. I wonder if WSFJ and WJET are staying on 24. Spacing is kind of tight. de dtvdxer NY FN31
- Feb 20 18:04** I heard that my local blowtorch WEAO may be moving to RF 24. I still can't verify if the source is credible or not. de Andrew K OH EN91EB
- Feb 20 17:29** My only TN DTV logs here are the three RF-5's, are all via E-skip: WTVF, WCYB, WMC, . I don't think that'll change. de dtvdxer NY FN31
- Feb 20 17:08** [15:37] Since 2001, I've seen very little from there in Indy. Logged WCYB 5 during pre-trans. on ch. 28, but never a decode on 5. Finally got WJHL 11, Aug. '15. Most frequent is WEMT 38/39. de indysteve IN EM69
- Feb 20 16:56** WBNA was a surprise. Tower is shorter & 20 some mi. south of the others in IN, plus a DA w/strongest signal south. de indysteve IN EM69
- Feb 20 16:47** [15:30] Besides WBXX, the other "south" DTVs were along the Ohio River (E'ville, L'ville & Cincy) de indysteve IN EM69
- Feb 20 16:39** Chris, that's true. I would've thought Johnson City would be my easiest captures from TN, but instead, I've logged two DTVs from Nashville already. de Andrew K OH EN91EB
- Feb 20 16:04** [15:37] Funny thing about DTV DX, it's the surprises NOT on your wish list that you often log. de dtvdxer NY FN31
- Feb 20 15:37** I have a couple DTVs on my wish list from Johnson City TN, but they never appear. de Andrew K OH EN91EB
- Feb 20 15:30** Steve, I've been trying really hard to get long-haul tropo from the south. The farthest I'm seeing is WVAH Huntington WV. de Andrew K OH EN91EB
- Feb 20 14:40** [Tr WBNA 8/21, Louisville, KY 205 mi. from IL DX site. New log.](#) de indysteve IN EM69
- Feb 20 14:29** [Tr 104.7 WKJC Tawas City, MI, "KJC Country 104.7", 238 mi](#) de Jon ON FN03
- Feb 20 14:23** Steve, the forecast for Wednesday morning looks good. de Andrew K OH EN91EB
- Feb 20 12:41** Nice new catch, Andrew. WBXX just popped up briefly again. de indysteve IN EM69
- Feb 20 12:30** [Tr WTAE-LD 22/4 Pittsburgh, PA @ 97 miles *NEW* log #226](#) de Andrew K OH EN91EB
- Feb 20 11:59** [Tr WBXX 20/20, Crossville, TN 359 mi. from IL DX site via autologger around 10:55. In several minutes.](#) de indysteve IN EM69

Feb 20 05:11 Gw W265DL 100.9 Dover/New Philadelphia @ 39 miles (NEW translator for 1450 WJER) de Andrew K OH EN91EB

Feb 19 17:30 Tr WBNS 21/10 Columbus 366 mi de Ed W-KY EM56

Feb 19 17:24 Tr WOSU 38/34 Columbus OH 378 mi de Ed W-KY EM56

Feb 19 16:49 Tr WQAD 38/8 Moline IL 326 mi de Ed W-KY EM56

Feb 19 16:48 Tr WESV-LD 40 Chicago 350 mi de Ed W-KY EM56

Feb 19 16:40 Tr WSTR 33/64 Cincinnati 270 mi de Ed W-KY EM56

Feb 19 16:21 Tr WANE 31/15 Fort Wayne 343 mi de Ed W-KY EM56

Feb 19 15:53 Tr WDTN 50/2 Dayton OH 303 mi de Ed W-KY EM56

Feb 19 15:41 Tr WTVS 43/56 Detroit 479 mi de Ed W-KY EM56

Feb 19 15:39 Tr WPTA 24/21 Fort Wayne 344 mi Over Local WQTV de Ed W-KY EM56

Feb 19 15:24 Tr WISE 18/33 Fort Wayne 344 mi de Ed W-KY EM56

Feb 19 15:21 Tr WNDU 42/16 South Bend 351 mi de Ed W-KY EM56

Feb 19 15:18 Tr WNIT 35/34 South Bend IN 352 mi de Ed W-KY EM56

Feb 19 15:10 Tr WFWA 40/39 Fort Wayne 344 mi "PBS39HD" de Ed W-KY EM56

Feb 19 15:06 Tr WIPB 23/49 Muncie IN 280 mi de Ed W-KY EM56

Feb 19 15:01 Tr WYCC 21/20 Chicago 350 mi... Move ants a little... WFYI 21/20 Indy 245 mi de Ed W-KY EM56

Feb 19 14:56 Tr WRTV 25/6 Indy 245 mi de Ed W-KY EM56

Feb 19 14:52 Long, slow fades on Chicago stns... A few sub-d's I suspect are S-WI de Ed W-KY EM56

Feb 19 14:42 Tr WNEO 45/45, Alliance, OH 350 mi. from IL DX site. de indysteve IN EM69

Feb 19 14:41 Tr WKBN 41/27, Youngstown, OH 365 mi. from IL DX site. Thru local WICD. de indysteve IN EM69

Feb 19 14:11 Tr WFMJ 20/21, Youngstown, OH 365 mi. from IL DX site. de indysteve IN EM69

Feb 19 14:03 Tr WKYC 17/3 & WQHS 34/61, Cleveland, OH 312 mi. from IL DX site. de indysteve IN EM69

Feb 19 13:46 Tr WPWR 51/50 Gary IN 351 mi de Ed W-KY EM56

Feb 19 13:32 Tr WCIU 27/26 Chicago 351 mi de Ed W-KY EM56

Feb 19 13:30 Tr WGBO 38/66 Joliet IL 353 mi de Ed W-KY EM56

Feb 19 13:29 Tr WLS 44/7 Chicago 350 mi de Ed W-KY EM56

Feb 19 13:25 Tr WRLM 47/47, Canton, OH 329 mi. from IL DX site. de indysteve IN EM69

Feb 19 13:23 Tr WFLD 31/32 Chicago 350 mi de Ed W-KY EM56

Feb 19 12:45 Tr WCMH 14/4, Columbus, OH 245 mi. from IL DX site. de indysteve IN EM69

Feb 19 12:44 Tr WEAO 50/49, Akron, OH 313 mi. from IL DX site. de indysteve IN EM69

Feb 19 12:31 Tr WDLI 49/17, Canton, OH 315 mi. from IL DX site. de indysteve IN EM69

Feb 19 12:30 Tr WVPX 23/23, Akron, OH 316 mi. from IL DX site. de indysteve IN EM69

Feb 19 12:28 Tr WEWS 15/5, Cleveland, OH 311 mi. from IL DX site. de indysteve IN EM69

Feb 17 17:42 Wow... I'm fairly certain that Youngstown Ohio DTVs will be offered tons of cash to go away too. de Andrew K OH EN91EB

Feb 17 17:17 PBS WVTA-24/41 rural Vermont, gets \$56M (33.6% of opening price) to go dark. Vermont PBS plans to upgrade other stations to fill in the coverage. I have never been able to log WVTA here in Poughkeepsie. de dtvdexer NY FN31

Feb 17 17:08 WBIN 35/50 Derry, NH, a puny 7kw "full power" station, is going dark, getting \$68M in the auction (a healthy 26% of "opening price". WBIN was purchased 5 years ago for \$9M. de dtvdexer NY FN31

Feb 17 01:19 I guess they decided to go with the larger payout and crappier channel. de Andrew K OH EN91EB

Feb 17 01:18 Read my post from 2/15 15:36. de Andrew K OH EN91EB

Feb 17 01:14 Hurray!!!... bust out the champagne and ladies... party at my house for all DXers!! de Andrew K OH EN91EB

- Feb 17 00:24** WUAB-28 Lorain, OH will be going off the air and pairing up with with WOIO-10 Shaker Heights as a result of the Spectrum Auction.. de dtvdxer NY FN31
- Feb 16 22:01** [Tr sub-d WHBF 4 pilot \(66.31\) Rock Island IL 340 mi... sig pops up to abt S-5 on R-7000 rx de Ed W-KY EM56](#)
- Feb 16 21:07** This Hispanic population in the Cleveland DMA is very low. It doesn't even rank in the nation's top 60 urban areas for Hispanics. It may be a good idea for WQHS to sell. de Andrew K OH EN91EB
- Feb 16 21:05** Chris, I know my local blowtorch WDLI 49/17 used to be on RF 39, but they switched to 49 and increased power from 200 kW to 900. They were able to prove that the interference they'd cause would be low even though WNWO and WTAP are both MUCH less than 150 miles. de Andrew K OH EN91EB
- Feb 16 20:46** By the way, while there seem to be many full 1 MegW DTV's elsewhere, they're rare here... Only 8 in NY State (w/tons of DTV's), including my two locals. Two of them I've never logged or seen sub-decode: WUTV-14, WFXV-27. de dtvdxer NY FN31
- Feb 16 20:44** [16:16] Specified DTV co-channel spacing is supposed to be around 150 miles. But with current repacking, FCC is trying to maintain about 99% of coverage area... and if that can be accomplished with closer spacing, it will be done. That will often be the case if lower ERP's than 1 MegW. de dtvdxer NY FN31
- Feb 16 20:37** [16:22] Lack of \$\$ by bidding wireless companies is what saved channels 30-36. Stations will be effectively packed, but not quite like sardines unless that is already the case (i.e. Wasington to Boston). de dtvdxer NY FN31
- Feb 16 20:32** Uniivision is likely pairing up in markets where they own 2 stations.. such as NYC WXTV-40 and WFUT-30. I doubt they'd give up their single signal in Cleveland... but perhaps they'd pair up with a WKYC or WJW. de dtvdxer NY FN31
- Feb 16 19:41** I'm making a prediction... my local TCT affiliate WRLM 47 moves to low-VHF and uses the auction proceeds to buy a private jet. de Andrew K OH EN91EB
- Feb 16 19:18** Univision made \$376 million from the auction. I sure hope that means my local WQHS goes away. Cleveland doesn't have nearly as many Hispanics as other DMAs. de Andrew K OH EN91EB
- Feb 16 19:10** Perhaps with the \$\$\$\$ that's flying around in the auction will produce fewer channels with better quality programming rather than tons of garbage. de Andrew K OH EN91EB
- Feb 16 16:26** I think the cramming of DTVs will end up looking like the closely-spaced channel 31s in Scranton/NYC/Philadelphia/Hartford/Boston. de Andrew K OH EN91EB
- Feb 16 16:22** Many broadcasters are saying that the spectrum auction didn't offer as much \$\$\$ as they were expecting, so be prepared for many to stay on the air and be packed like sardines. de Andrew K OH EN91EB
- Feb 16 16:21** Long-haul DTV tropo may become a lot more difficult too. All DXable channels leftover will be taken by markets 100 miles away, and it will be tough to get anything to hop over. de Andrew K OH EN91EB
- Feb 16 16:17** And once the final channels are announced, the LDs will take over any DXable channels leftover. de Andrew K OH EN91EB
- Feb 16 16:16** I'm concerned that the FCC may go a bit too wild with packing channels together like sardines. I already know of a specific local that will be 120 miles away from another co-channel full-power. Unless I have any locals go off the air or share, this will be really bad for DXing. de Andrew K OH EN91EB
- Feb 16 14:59** [Tr KARZ 44/42 Little Rock 265 mi de Ed W-KY EM56](#)
- Feb 16 14:38** ... then it ran as WAZE 20/19 DTV. It's license was pulled but it continued to operate for several months w/o any license. de Ed W-KY EM56

- Feb 16 14:32** I used to have a local 19 analog WLCN Madisonville, KY.... de Ed W-KY EM56
- Feb 16 13:33** [Tr FM band jammed full on my "People's Republic of Electronics" rx w 30in wire vert ant 3ft AGL](#) de Ed W-KY EM56
- Feb 16 13:17** Ed, someone else out that way will likely end up on rf-19, maybe even Springfield's KYTV-44. Of course, you might also get a rf-19 in your backyard. de dtvdxer NY FN31
- Feb 16 13:13** [Tr clutter... WKRN 27/2 Nashville 100 mi... w ant aimed west](#) de Ed W-KY EM56
- Feb 16 13:02** It'll be sad to see ex KSPR now KGHZ go... It's been one of my propagation 'benchmark' chs... 250 mi to Spr, MO de Ed W-KY EM56
- Feb 16 12:57** I guess I'd better get used to looking for the multi-virtual chs from now on.... de Ed W-KY EM56
- Feb 16 12:55** Thanks Chris... Just looked thru the ch list and found the 3-2 "KYWX" and the 33-2 "KYCW" de Ed W-KY EM56
- Feb 16 12:45** Ed, yes, Rabbit Ears shows KGHZ rf19 Springfield is 15.1 Ant-TV, 3.2 Westher Nation, 33.2 KYCW (CW). This station is slated to go off the air this Spring. de dtvdxer NY FN31
- Feb 16 12:41** Just the one 15-1 sub-ch... Could it be K19JU-D Poplar Bluff, MO ? de Ed W-KY EM56
- Feb 16 12:31** [Tr 19/15 w "ANT-TV" bmg west... Is this what KSPR is now, or is it something else?](#) de Ed W-KY EM56
- Feb 15 16:27** Steve, I don't want to wait that long. de Andrew K OH EN91EB
- Feb 15 15:49** [Auction/repacking tell-all announcement in April.](#)
<http://www.tvnewscheck.com/article/101536/fcc-to-announce-auction-winners-in-april>
de indySteve IN EM69
- Feb 15 15:36** Chris, I had the same idea regarding my two locals owned by Raycom... WOIO 10/19 and WUAB 28/43. My thought was that WOIO would leave RF 10, which is very bad and suffers from interference from CFPL. It's also nulled to the NE and is very weak, so pairing with WUAB would help. de Andrew K OH EN91EB
- Feb 15 15:11** [14:37} My error... I was confusing Sinclair with Scripps. Maybe WRGB/WCWN will pair up. It would be smart for WRGB to get off ch 6 and become UHF... and get a few \$M to do it. They already simulcast on subs. de dtvdxer NY FN31
- Feb 15 14:37** Chris, Sinclair made \$313 million, so how do you know that nothing will happen to WRGB and WCWN? de Andrew K OH EN91EB
- Feb 15 13:54** [19:28] I just realized my locals WRGB-6 and WCWN-43 are Sinclair stations. So they'll be staying on. de dtvdxer NY FN31
- Feb 15 03:22** [02:00] Thanks Steve. Interesting, but nothing on markets of primary interest: NYC, Hartford & Springfield, Albany, Boston, Philly. Looking forward to more info. de dtvdxer NY FN31
- Feb 15 02:00** Repacking info about several public DTVs
<https://docs.google.com/spreadsheets/d/1aguZjdAo2On8B2cUUtyroLjBwXvKVjvJre-XdH4yaZo/edit#gid=0> de indySteve IN EM69
- Feb 14 19:28** Scripps also owns WKBW-38 Buffalo (and many more stations). I don't think they have any stations in my area. de dtvdxer NY FN31
- Feb 14 18:48** Scripps isn't making any money from the auction. My local WEWS is owned by Scripps, so I would assume this means that they won't be going off the air or sharing their spectrum. de Andrew K OH EN91EB
- Feb 14 18:48** [Ms 97.5 WQBE WV Charleston - NEW - A perfectly timed "WQBE Charleston" at 0856 EST. From Burnt River ON](#) de Saul ON FN04
- Feb 14 18:15** Chris, that's good news. I am hoping to see one of my blowtorches at 1 to 2 miles away to disappear. de Andrew K OH EN91EB
- Feb 14 17:38** Also, DXing will be better on 45, 46, 47, 49, 50 & 51 during transition with WRNN gone. Break out the champagne! de dtvdxer NY FN31

- Feb 14 17:37 [17:12] Well this just makes my day! WRNN is #1 local pest... when they go off, maybe I'll actually log something on 48, like WRC before they move. I knew it made so much sense for WRNN to go dark and take the \$\$ de dtvdexer NY FN31
- Feb 14 17:12 WRNN made \$212 million from the auction. de Andrew K OH EN91EB
- Feb 14 15:05 Ed, sorry, but KET did not sell any stations.
<https://twitter.com/LexTVandRadio/status/831159261761769473> de indysteve IN EM69
- Feb 14 13:25 If you're not aware, Trip has a nice blog on the RabbitEars site with updates for the spectrum auction... <https://www.rabbitears.info/blog/index.php?post/2017/02/09/What-We-Know-Incentive-Auction-Results> de Andrew K OH EN91EB
- Feb 13 18:38 New TBD network on in Rochester, NY on WUHF 28/31.4 and Syracuse NY on WTVH 47/5.3 today de jpizzi NY
- Feb 12 22:23 **Ms 89.1 WPAS Pascagoula, MS preacher / RDS PS: AMERICAN FAMILY RADIO / PI RELOG 977 mi** de Jeff ON EN93fo
- Feb 12 17:32 Fred... back in the analog days I used to see Atlanta (312 mi) on a regular basis w the 7ft parabolic on the back porch. :-)
- Feb 12 05:41 **Tr 38-WSPF-CD FL St Petersburg (NEW)** de fred SC FM03af
- Feb 12 05:07 **Tr Central Florida in strong - furthest being WCLF-21 Clearwater at 357 mi (7' dish with preamp temporarily at ground level-aimed south!)** de fred SC FM03af
- Feb 11 11:49 My Stereo Probe 9 FM antenna is 22' above ground, 1550' above sea level but -1522' the least to -2185' the most HAAT de Dave-N PA FN01qx
- Feb 11 05:04 **Tr North/Central FL FM/TV stations with good signals ~300 mi** de fred SC FM03af
- Feb 9 12:37 **Ms 106.5 WAVH Daphne, AL 938 mi., RDS PI: calls PTY: Talk, re-log same mode** de Dave-N PA FN01qx
- Feb 8 16:43 **Tr 99.7 WMC Memphis 130-ish mi... on cheap rx w 30in wire vert ant 3ft agl** de Ed W-KY EM56
- Feb 7 18:03 Lots of cross-Gulf tropo forrecastr during next week... then look at tropo forecast for NY State. I think I'm in the wrong place! de dtvdexer NY FN31
- Feb 7 17:17 FCC waives the quiet period prohibiting stations from discussing their repack plans... <http://www.tvtechnology.com/news/0002/fcc-ends-auction-quiet-period/280275> de Andrew K OH EN91EB
- Feb 7 15:15 We have a new autologger in Pioneer Ohio. It should be a good location... middle-of-nowhere Midwest, flat, low-noise, no mountains blocking tropo. de Andrew K OH EN91EB
- Feb 7 13:56 **Tr WEAU 38/13, Eau Claire, WI 326 mi. from IL DX site via autologger @ 11:43.** de indysteve IN EM69
- Feb 7 11:30 **Ms 107.5 KKDM Des Moines, IA 753 miles, RDS with bogus "KEBY", program type Top 40, re-log** de Dave-N PA FN01qx
- Feb 5 21:03 Jim... I'm looking for your 'new' KGHZ but not a peep atm de Ed W-KY EM56
- Feb 5 20:33 **Ms nice long burst on 55.26 (2+) bmg N-E... lasted abt a minute...** de Ed W-KY EM56
- Feb 5 09:36 **Ms 107.9 WEBE Westport, CT 287 mi., RDS @ 0722z PS/PI/RT/PTY: Adult Hits, either off the back of ant. or signal passed overhead and was bounced back, still a re-log** de Dave-N PA FN01qx
- Feb 4 20:24 **Ms 2+ (55.26) weak iono-scatter sig + Ms pings... More than likely CIII Bancroft ON 810 mi** de Ed W-KY EM56
- Feb 4 14:47 Feb 1 call changes: KSPR became KGHZ. KYCW became KSPR-LD. If KGHZ-19 is indeed successful in the auction, then the KSPR call letters live on on as KSPR-LD RF-15. de dtvdexer NY FN31
- Feb 3 20:09 My assumption is that another co. has purchased the channel (???) or KYTV is moving there (from RF 44) and sharing with the "new" KGHZ...??? Who knows at this point. "Stay tuned for further updates as they become available." de indysteve IN EM69

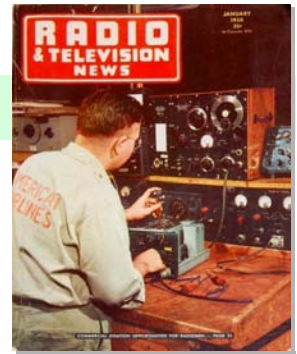
- Feb 3 19:58** Jim, from Wiki.... "KSPR license to be entered into the FCC's broadcast incentive auction." de indysteve IN EM69
- Feb 3 16:17** What the heck is going on? Trip told me KSPR/Perkin Media was surrendering its spectrum in the incentive auction - https://licensing.fcc.gov/cgi-bin/ws.exe/prod/cdbs/forms/prod/cdbsmenu.hts?context=25&appn=101713300&formid=314&fac_num=35630 de Jim-T MO EM37
- Feb 3 16:15** <https://en.wikipedia.org/wiki/KGHZ> de Jim-T MO EM37
- Feb 3 16:12** I know its from one of my locals, but FCC doesn't yield KGHZ calls de Jim-T MO EM37
- Feb 3 16:11** https://m.rabbitears.info/index.php?request=tvdx_grid&tid=101C926D&tno=0&sort=all&hours=24&tzzone=CT&unit=&auto=Y de Jim-T MO EM37
- Feb 3 16:11** Anyone heard of a KGHZ ??? Per my Rabbitears, select 24 hour view de Jim-T MO EM37
- Feb 2 13:48** I was reading that TVO is given taxpayer dollars, yet they're gutting their OTA system all over Ontario, forcing people to pay for cable/satellite or high-speed internet (if it's even available) just to watch them. de Andrew K OH EN91EB
- Feb 2 13:41** [1/31 23:08] Bill, you don't think it would be attractive for all Toronto OTA broadcasters to pair up into one or two UHF channels? They don't seem to care about OTA viewers. Do you think they really care about HD quality picture? de Andrew K OH EN91EB
- Feb 2 13:15** I'm hearing that the FCC will try to pack same-city DTVs on all adjacent channels in order to be more efficient. That's going to cause a lot of movement. de Andrew K OH EN91EB
- Feb 2 10:19** [Ms 106.5 WRZX Greenville, OH 335 mi., RDS PI: still using old calls "WDSJ" PTY: Oldies, prev. tropo de Dave-N PA FN01qx](#)
- Feb 1 21:54** Time will tell de Ed W-KY EM56
- Feb 1 21:52** I suspect my local WDKA 49 is a gone-er... It's already a sub-ch on KBSI 22/23 and has been for quite a while de Ed W-KY EM56
- Feb 1 21:44** It's bad enough now w so many KETs... It could be a really big mess w 'em all jammed into 2-36 de Ed W-KY EM56
- Feb 1 21:34** Not sure what KET has in mind for repack but I can see a scenario where I end up with 6 local / semi-local KET tx's. de Ed W-KY EM56
- Feb 1 19:09** W43CZ is off the air... I wonder if that means anything. de Andrew K OH EN91EB
- Feb 1 19:07** Jim, when the results are revealed in a few weeks, I'll be afraid to look. The Cleveland/Akron/Canton/Youngstown DMA is too crowded, and I'm sure it will only get worse. de Andrew K OH EN91EB
- Feb 1 18:22** The spectrum auction shake-out is beginning? I've noticed a pile of sub-channel shifts this morning on some of my local Springfield dtv's de Jim-T MO EM37
- Feb 1 16:07** [Tr KLRT 30/16 Little Rock 266 mi.... Is about it for "DX"... ZZZzzz...](#) de Ed W-KY EM56
- Feb 1 15:51** [Tr 's typical for February... the usual 100 mi ch cloggers are waaaay down...](#) de Ed W-KY EM56
- Feb 1 15:45** [Ms A few isolated pings on 55.25 \(2z\) bmg Cuba.... *yawn*...](#) de Ed W-KY EM56
- Feb 1 13:34** [Tr WBAY 23/2, Green Bay, WI 261 mi. from IL DX site. Occasional decodes w/man. tuner.](#) de indysteve IN EM69

Is Stratovision the Answer?

Fourteen planes would provide adequate coverage for approximately 78% of the people in the U.S.A.

Written by Kenneth R. Boord for *Radio & Television News* [January 1950]

Source: <http://www.earlytelevision.org/stratovision.html>



Although Stratovision experiments in the United States have been suspended temporarily, there are many TV authorities who believe it is the only answer to truly adequate "nationwide" video coverage - including the small towns and rural areas as well as the large metropolitan centers of the country. Five years ago (1945), the Westinghouse Electric Corporation, in cooperation with The Glenn L. Martin Co., announced the intention of developing this system in the United States.

What is Stratovision?

It is airborne television-transmission relay from planes in motion at high altitudes. By raising the broadcasting antenna to greater heights, relatively large improvements in v.h.f. (very-high frequency) and u.h.f. (ultra-high frequency) transmission range may be obtained. "Radio" horizon distances, of course, are largely dependent upon atmospheric conditions. A transmitting antenna 30,000 feet above the earth's surface has a "line of sight" distance to the horizon of 211 miles, and this distance roughly represents the service area of such a v.h.f. or u.h.f. transmitting antenna. Assuming true spherical earth conditions, calculations indicate that television coverage over this large distance is attainable with powers equivalent to those used in present-day commercial television stations.

A transmitter operating at 600 megacycles, airborne 30,000 feet above the surface of the earth, with an effective radiated power of 25 kw. assumed, will achieve a field intensity of 2 millivolts per meter for a 3D-foot high receiving antenna, out to 238 miles. This distance represents the coverage from an airborne station over the earth.

Minimum values of field intensity occur at several points closer to the transmitter and fall below the value of two mv/m. required for service. These minimums will not occur at the same distances for a different receiving antenna height. This makes it possible to increase the field intensity at any location by changing (either raising or lowering) the receiving antenna by a few feet. Energy at the receiving antenna arrives from the transmitting antenna over two paths - a direct path and a reflected path. Thus, the net energy at the receiving antenna is a vectorial addition of these two components. As the distance between transmitter and receiver is changed (or the antenna heights are changed), the changing vectorial relationship produces nulls and maximums. There are as many nulls between the transmitter and its horizon as the number of half-wavelengths that the receiving antenna is above ground. It is desirable to reduce the receiving antenna height as the receiver is moved closer to the transmitter, even to the point of laying it close to the ground when the location is near the transmitter. Naturally, terrain factors influence the coverage obtained, and these factors have a greater attenuative effect in the u.h.f. television band than in the v.h.f. band.



The experimental Stratovision station (a modified B-29), flying at 25,000 feet over the Pittsburgh area, rebroadcast telecast picked up from the east coast television network over an estimated area 525 miles in diameter. Programs from the ground stations are picked up on the antenna projecting above the tail, and rebroadcast from the long, mast-like antenna extending down from the nose of the plane.

Testing

The Westinghouse and Glenn Martin companies undertook two series of flight tests to study the propagation and plane motion effects. The first of these studies was made with a twin-engine PV-2 aircraft, capable of operation at 25,000 feet. (This ship was by no means of the type suitable for day-to-day broadcasting but was quite suitable for propagation measurements.)

Two transmitters were installed in the unpressurized cabin of this ship. A 250-watt transmitter, operating on 107.5 mc., and a 5 kw. (peak of pulse) transmitter operating at 514 mc., were flown at various altitudes away from Baltimore (Maryland), and continuous recordings of field intensity were made at locations ranging from Norfolk (Virginia), to Pittsburgh (Pennsylvania), and Boston (Massachusetts).

During the one-year flight-test period using PV-2, measured field intensities were compared with calculated values and effects of motion of the plane upon the pulsed waveform of the 500 mc. transmitter were studied. No effects of the motion of the plane were found except for the expected variation of field intensity as the distance changed. Measured field intensities agreed with calculated values reasonably well when the receiving antenna site approached a true spherical earth condition. Departure below predicted values was noted when the receiving antenna was down behind a hill. In a comparison study of measured and calculated values when the receiving antenna was set up on a beach at Norfolk (Virginia) - the total path between transmitter and receiver being over the waters of Chesapeake Bay - it was noted that even with this ideal "spherical earth" location, the minimums were never as deep as calculated.

As a result of these tests, the two companies were encouraged to equip a more suitable plane for actual picture transmission in accordance with commercial television standards.

A complete set of modern TV transmission equipment was built and installed in a B-29 "Super Fortress" with all military armament removed to make room for the TV equipment. This aircraft is a pressurized, four-engine, high-altitude airplane capable of operation at 30,000 feet.

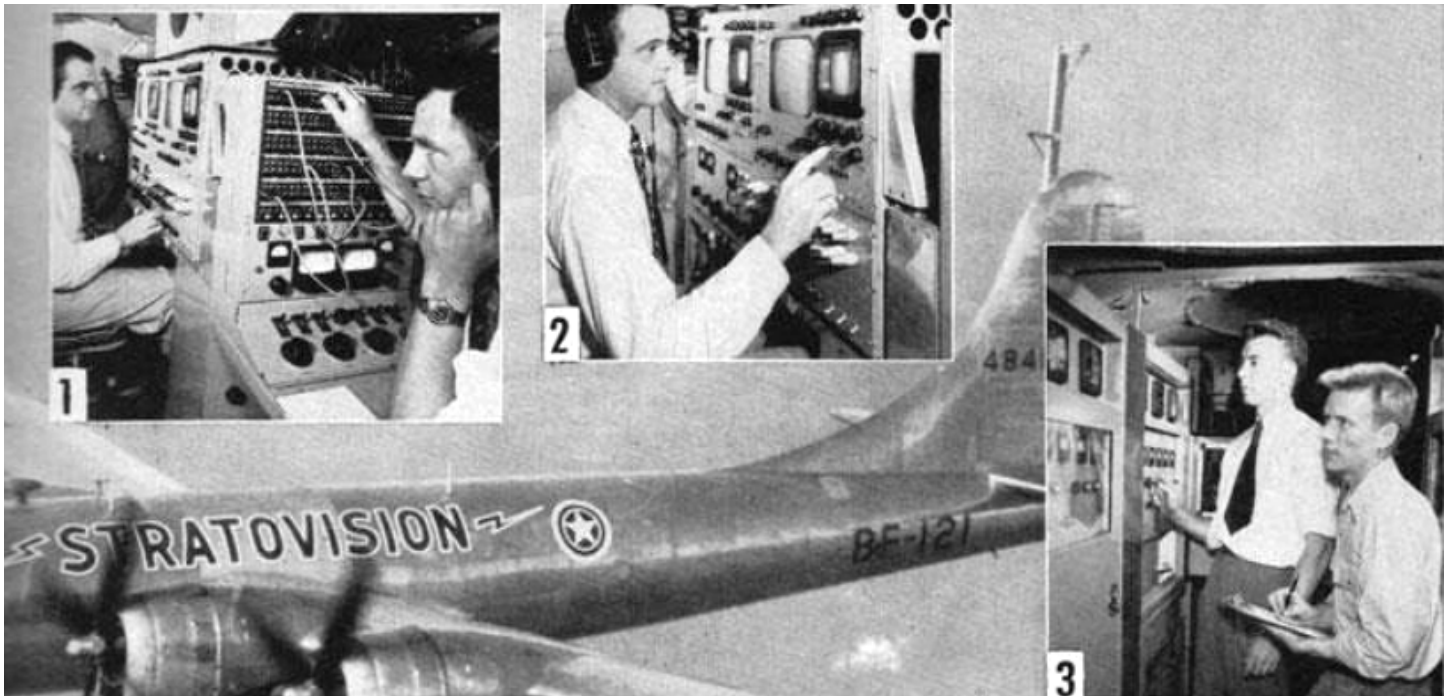
Television equipment installed in this ship consisted of receivers capable of receiving standard commercial television stations or a special 547.5 mc. relay link from the Westinghouse studios in Baltimore (Maryland). Transmitting equipment capable of emitting 5 kw. of video and 1 kw. of sound on TV Channel 6 (82-88 mc.) and monitoring and control equipment were also installed. In addition, other transmitters operating on 250 mc. (with 200 watts c.w.) 750 mc. (with 200 watts c.w.), and 3300 mc. (with 50 kw. peak of pulse) were installed to carry out further propagation measurements.

Receiving circular dipoles were located on an eight-foot streamlined mast atop the vertical tail fin. These antennas were used to receive standard ground stations for rebroadcast. The vertical tail fin was chosen as a location for the receiving array because it was the spot most isolated from the transmitting array, thereby reducing the problems of receiving weak signals in close proximity with the 5 kw. video and the sound transmitters. This location plus the use of filters made it possible to receive any commercial channel except Channel 5, where the lower sideband components of the Channel 6 transmitter were relatively high.

In broadcasting position, the main transmitting antenna mast hung vertically downwards. This mast carried a two-element turnstile array for the Channel 6 video carrier, a single-element circular dipole sound antenna, and a 547.5 mc. relay link receiving array. The mast is 28 feet long and induced some 600 h.p. of additional drag to the plane in spite of its being streamlined. This array, of course, was retractable for take-offs and landings.

Power for all equipment was obtained from three 15 kva., 500-cycle alternators coupled directly to the plane's engines. The plane used a 70,000 BTU-per-hour air conditioning system in order to dissipate the heat from the operating compartment. Without air conditioning, the compartment temperatures reached 134 degrees Fahrenheit in spite of the fact that outside air temperatures were 25 degrees Fahrenheit.

This equipment was flown more or less regularly from June of 1948 to February of 1949. Usual flight procedure after take-off from Baltimore (Maryland) was to climb to operating altitude at Baltimore. During



1 C. E. Nobles, originator of the Stratovision system for airborne television and frequency modulation transmission, monitors the television signal received and transmitted from the Stratovision airplane. Ben Carroll (shown at right), Martin Stratovision project engineer, listens at the sound monitoring position.

2 C. E. Nobles at the twin video monitoring boards in the experimental Stratovision airplane. The boards are so arranged that each can be used separately to monitor the video signal coming to the plane or the signal being transmitted by the plane, or they may be used together so that the signal picked up by the plane appears on one screen while the plane's broadcasted video signal is monitored on the other. The TV picture is viewed on the large screen.

3 Angus A. Macdonald and Larry Smith, Westinghouse engineers, record current and voltage readings of the 1000 watt transmitter used to rebroadcast frequency modulation sound signals from the airplane. This transmitter plus the TV transmitter and the other equipment aboard the plane generated so much heat in early flight tests that a refrigeration system, capable of air conditioning a seven room house, was installed promptly.

the hour required to climb, equipment was brought on the air and checked out. Upon reaching altitude, the plane was flown away from Baltimore while continuous propagation measurements and range measurements were being made. The programs of WMAR-TV of Baltimore usually were broadcast on Channel 6.

After each flight, many TV fans wrote in to describe results of the test at their particular location. These reports from the public were numerous; several hundred letters were received on some flights and proved to be a valuable source of information. Area covered by reports agreed very well with predicted coverage.

An angle of five degrees or greater is obtained for only the first mile from a 500-foot high antenna compared with 64 miles from the 30,000-foot antenna. An angle of one degree or greater is obtained for only 5 miles from a 500-foot high antenna as compared with 168 miles from the 30,000-foot antenna.

Stratovision proponents estimate that it would require only eight planes in "relay" to provide a transcontinental network and six additional planes to give adequate coverage to 78 percent of the 149,000,000 people in the United States.

As to the future of airborne TV, C. E. Nobles, head of Stratovision work for Westinghouse, says "The major technical problems of the system have been solved, and the commercial development awaits only the crystallization of public demand for the expanded services offered by airborne broadcasting, application of the system by the radio industry to meet this demand, and the clarification of channel facilities available to make possible this application."

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