

# Vhf-UhfDIGEST

The Official Publication of the Worldwide TV-FM DX Association

MARCH 2005

The Magazine for TV and FM DXers



*TV and FM DXing was never so much fun!*

# 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, GREG CONIGLIO, BRUCE HALL, KEITH MCGINNIS AND MIKE BUGAJ.



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**MARCH 2005**



Finally! For those of you online with an email address, we now offer a quick, convenient and secure way to join or renew your membership in the WTFDA from our page at:

<http://fmdx.usclargo.com/join.html>

Dues are \$25 if paid to our Paypal account. But of course you can always renew by check or money order for the usual price of just \$24. Either way, it's still a bargain!

## VUDS ON A CD!

Every VUD from Jan 1980 to December 1989 is on this disk. You'll need Adobe Reader to read them. Why have a box of old VUDs taking up space when you can have this. **It's yours for just \$8.00 per disk.** Send your check or money order for \$8.00 to WTFDA, P.O. 501, Somersville, CT 06072. Make it payable to **WTFDA**.



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Winter has finally caught up with the VUD. Lack of DX means lack of reports, and that means lack of columns. Southern FM and Eastern TV DX are out of material, and Northern FM DX just squeaked by with a page.

We are now taking checks payable to WTFDA again and we beg you to use WTFDA on all of your checks from this time forward.

There's some good reading this month in the VUD. Take a look. Have a good March!



## WTFDA Convention 2005 **DALLAS, TEXAS**

**JULY 22, 23, 24**

Hosted by  
**John Callarman**  
**ARE YOU READY!**

Watch this space for more details!

**PLEASE MAKE ALL CHECKS & MONEY ORDERS PAYABLE TO WTFDA**



# The Mailbox

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## WELCOME TO MARCH

And welcome to the Mailbox. We are now firmly in the “yawn” season of the year where nothing much is happening at all. I noticed a post or two of E skip on the WTFDA list on 2/19 and 2/20, and some recent tropo activity down along the Gulf Coast, but outside of that ...yawn! So we'll do our best with the material we have on hand and hope that conditions improve a little in March. Right now, it can't get much worse.

## MEMBERS AND MORE CHANGES!

Good news! Effective immediately all checks and money orders for membership, renewal and product orders can and should be made payable to **WTFDA!** Yes, we now have our new checking account set up. If you forget and make them payable to me I'll just cash them and send the money to Keith McGinnis, but the plan here is to use **WTFDA** as the payee. When we get setup as a non-profit corporation you'll absolutely *need* to use WTFDA on your checks so get back in the habit of doing it!

Also we have transferred the club funds that were held by Dave J and myself into the new checking account. Some funds are still being held by Dave's estate but they only amount to a few hundred dollars. At this point we are mostly back to normal operation.

This month we welcome **Craig Healy** into the WTFDA. Craig lives in the Providence, RI area and is an engineer for some Providence stations as well as WMVY on Marth's Vinyard. More about Craig later.

We've got renewals recently from **Paul Mitschler** (AZ), **Peter Oprisko** (IN), **Gary Olson** (FL), **James Nahirniak** (MI), **S. Kaimbridge Hood** (MA), **Robert Fischer** (AK), **Wally Dickson** (MA), **Barry Shinall** (VA), **Roger Sabella** ((IL), **John Zeis**(PA), **Charles Burnham** (NY), **Joe Kureth** (MD), **James Brown** (VA), **Lawrence Marecki** (OH), **Frank Drobny** (CA), **George Rogers** (GA), **Emily Keene** (PA), **Jeff Wolf** (MD), **Harry Hayes** (PA) and **Aaron Mitterling** (IN). And we thank ya for yer support.

Here's more from Craig: “As a bit of an introduction, I'm 57 and am a broadcast engineer in the Providence area. FM clients include WCTK and WMVY.

There's an 80' tower in my yard left from an old wind generator project. Right now there's only a little Radio Shack yagi on top. In the spring I'll look at improvements.

I have a Yamaha T-85 with newer Murata's in the last two filters. But what I have been using is the Blaupunkt TwinCeiver. I put a Bremen MP74 in the truck and a San Francisco in a case to use in the house. Both seem better than the T-85. For example, in the truck I can be a few miles from the WBRU 95.5 tower and hear WHRB 95.3 from Boston. It's listenable, though with some expected splatter. That's still far better than anything else I've tried.”

**Gary Hickerson** sent an email regarding the DX gas station on the January VUD cover. Gary wrote “The front cover brought back memories. There used to be a lot of DX stations here. The headquarters of Sunray DX was in Tulsa. The DX stood for distance. They said you could get more “distance” (mileage) if you used their gasoline. The company is now Sunoco. The strange part is we don't have any of those in this area!

## POSSIBLE GOOD NEWS FROM C.M.

Nice to know that **Rich Wertman** is alive and well. Rich writes “I have been contacting antenna builders to build a parabolic antenna again. I talked with C.M. six months ago and they basically said no, they no longer had the tooling available to build it. Well, last week I got a call from one of the reps. It appears as if



A Rebirth?

they might consider building the Parascope again. Channel Master is now actually Andrews Corp. They do some manufacturing in Mexico and believe they could build the antenna there. They wanted my input and an idea on how many we could sell. The retail on these will be around \$199.00. I talked with the designers and told them it would be best to design it to ship UPS. They said there has been an increased interest and many distributors wanting them. I'll keep you posted.” And we'll keep all of you posted.

## EARLY TELEVISION FOUNDATION

For those of you in the Midwest who might be interested, the Early Television Museum, 5396 Franklin Street, Hilliard OH presents its Third Annual Early TV Convention from April 29<sup>th</sup> to May 1<sup>st</sup>, 2005. Some of the presentations at the convention are A 441 line mechanical scanner "for people, film and slides" and magnetic tape sound recording used in German television from 1938 to 1945 (by Gerhard Bauer), vintage TV collecting in France, a sampler from collectors viewpoint (Jerome Halphen), the history of television development in Italy 1926-1939 (Robert Lozier) and Adding Sight to Sound in Stalin's Russia: RCA and the Transfer of Television technology to the Soviet Union (Alex Magoun).

Other presentations are also scheduled. A flea market is scheduled for Saturday, April 29<sup>th</sup>. Some televisions will be demonstrated, including these new items: 1928 Daven TV receiver and Western Visionette, Western Empire State lens disk set, HMV 905, Murphy A58V, Cossor 12310, DuMont Clifton, Capehard CXC-12 color set and probably a few more.

Contact Steve McVoy of the Early Television Foundation at the Museum address or email [etf@columbus.rr.com](mailto:etf@columbus.rr.com). This item sent to us by John Pinckney via [strehlgasse13@lycos.com](mailto:strehlgasse13@lycos.com).

## ES AT HIGH LATITUDES

Q. When was the last time AK TV has been seen in the continental United States?

A. From south-west British Columbia, Es to Alaska on low-band VHF TV usually occurs at least 2 or times during the summer Es season. AK is single-hop from the Pacific Northwest. KTUU-2 Anchorage is a regular, as are KTOO-3 Juneau & KTBV-4 Anchorage. I have been DXing TV & FM from this region since the late 1960's & 6meters since 1980 & have NEVER had a MUF higher than ch 4 into AK. Es north of 60 degrees latitude (the auroral Es zone) behaves much differently than temperate latitude Es. My research indicates that Es in auroral regions never gets as high as the FM band. The one summer & winter I lived up north working at my first AM/TV station gig, I never had any Es higher than ch 5 TV. Unfortunately, there is no low-band VHF TV & very little FM in Yukon, & the Northwest Territories so getting an accurate picture of Es at these frequencies is difficult. 6 meter band activity is also scant, but occasionally mobile operators traveling through these regions have worked stations in lower Canada & the U.S.

Double-hop & multi-hop Es from here tends to favor the 49.750 ± TV frequencies from

eastern Siberia & further into Russian territory. The strongest & presumably closest is 49.757 on the Kamchatka Peninsula at Vladivostok, but when the 'footprint' at the Russian end is really large, multiple TV carriers can be heard fading in & out on frequencies between 49.739 - 49.762. David Williams should be able to detect these carriers with a good communications receiver or 6 meter rig connected to his low-band TV antenna at his inland Oregon location & beaming slightly west of AK. Using my Asian model Kenwood RZ-1 receiver connected to a monitor, I've seen video from the 49.750 TV signals a number of times over the years. This occurs usually 2 or 3 times during the summer Es season. When the band really opens, these TV frequencies are monitored all throughout the western provinces & states. Usually 50-60 Mhz opens to AK first, then the 49.750 TV carriers slowly build in strength. This pattern also is the preliminary sequence of events before a multi-hop 6 meter opening from here to Japan. AK double-hop usually has the Pacific Northwest as the first hop, with southern & central Calif., Ariz & N. Mex. 6 meter ops on the 2nd hop. I suggest reading Emil Pocock's "Beyond Line Of Sight" or some of Bob Cooper's writings on 50 mHz ionospheric propagation modes to get a better idea of what's possible when DXing Es from auroral Es zones. Hope this helps...

--73 Mike Cherry VE7SKA

Bill Hepburn lived for awhile in the NWT and reported July Es that extended well into FM and kind of swept across the 1000 mile area south of him, from east (NF etc...) to west (ND AB), and I mean WELL into FM. This (was) about 15 years ago or so. Mid to late evening, and aurorally-induced, I believe.

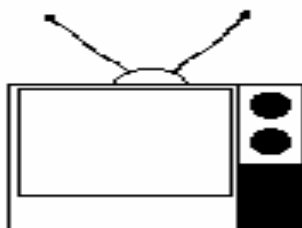
--Saul Chernos

I can confirm what Saul said. I spent the summer of 1984 in Coral Harbour, NWT (now Nunavut) and had a lot of FM ES from AB-NF & northern fringe states. In fact 70% of ES openings detected reached FM which is actually a higher percentage than that seen in mid-latitudes. I believe as well that it was a poor ES year in the mid-latitudes (Saul?). Almost all ES was confined to the 9 PM-1 AM EDT period which is about 3 hours later than usual (reason unknown - could be AU-induced as Saul suggests). Morning ES was never detected.

Coral Harbour is at 64 deg N latitude (almost as far N as Fairbanks), however the geomagnetic latitude is 68 deg geo N - which is farther north than all of Alaska, even Barrow (65 deg geo N).

No ES was ever detected in Resolute Bay (75 deg N). --Bill Hepburn

And that's it for this month! -Mike



# TV News

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

## March 2005

### Abbreviations:

AF	Applied For (a new station)	PC	Power (and/or tower height) change on the air
Aux	Auxiliary (backup) transmitter	PG	Power change granted
CC	Callsign change	PR	Power change requested
CL	City-of-license change	QC	Channel (?frequency??) change on the air
DE	License/permit deleted	QG	Channel change granted
FC	Programming (?format??) change	QR	Channel change requested
FTP	Failure to Prosecute	RE	Reinstated (previously-dismissed app.)
GA	Granted amendment (to table of channel allotments)	ROA	Request of Applicant
LC	License to Cover	SI	Off the air (?silent??)
MX	Mutually Exclusive	STA	Special Temporary Authority
NS	Permit granted for new station	XC	Transmitter site changed
NW	New station on the air	XG	Transmitter site change granted
PA	Proposed Amendment	XR	Transmitter site change requested

### News:

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



#### Canada:

##### Ontario:

**Hamilton** 35 ***CITS-DT*** NS 5kw

##### Quebec:

**Montreal** 19 ***CBFT-DT*** NW 250kw/300m

**Montreal** 20 ***CBMT-DT*** NW 107kw/300m



#### Guam:

**Agana** 12 ***KGTF*** PG>90m

Agana 22 ***KEQI-LP*** NW 970w, 13-29-17/144-49-30



#### U.S. Virgin Islands:

Frederiksted 60 ***W60CY*** NW 10kw, 17-41-43/64-52-57 (TBN)



#### Alabama:

Andalusia 25 ***WKNI-LP*** QC from ch. 49, 31-23-04/86-28-06; was briefly W25DO

Birmingham 34 ***W34BI*** PG>30kw

Cullman 27 ***WCQT-LP*** QC from ch. 52, 16kw

**Huntsville** 25 ***WHIQ*** PG<338m

Mobile 30 ***W30BX*** PG>50kw

**Montgomery** 14 ***WSFA-DT*** NW 600kw/507m, 31-58-28/86-09-44

#### Alaska:

Kenai 3 ***K03FW*** PG>1.5kw

Kodiak 25 ***K25HT*** NS 3kw, 57-47-41/152-23-28 (KYES-5)

**North Pole** 20 ***KJNP-DT*** NS 80w/5m, 64-45-32/147-19-26

#### Arizona:

Cane Beds 6 ***K06OB*** NS 90w, 36-54-11/113-51-08 (KUED-7)

**Douglas** 3 ***KFTU-TV*** PR>98m, 31-26-19/109-39-44 returned AF dismissed

Yuma 30 ***NEW-LP***

#### Arkansas:

Batesville 15 ***K15FW*** NW 9.2kw, 35-53-27/91-44-01 (TBN)

**Eureka Springs** 34 ***KWFT*** PC>1200kw/224, 36-24-41/93-57-14

Fort Smith 43 ***KXUN-LP*** PC>5.8kw

Hindsville 40 ***KRBF-CA*** QG from ch. 41, 129kw, 36-26-30/93-58-25; PR<40kw, 36-24-41/93-57-14

Hot Springs 23 ***K23GT*** QC from K44EV, 34.9kw

**Little Rock** 12 ***KTHV-DT*** NW 55kw/519m

**California:**  
 Bakersfield 24 ***K25FT*** QC from ch. 25, 35-21-42/119-03-34

Cherry Valley 51 ***K51HZ*** NS 12w, 34-03-46/116-53-34

Chico 17 ***K27HD*** QR from ch. 27, 100kw, 39-57-49/121-42-38, but dismissed

Chico 26 ***NEW-LP*** AF dismissed

Chico 51 ***K51ID*** NS 5.5kw, 39-42-57/121-50-09 (3Abn)

Daggett 50 ***K69FJ*** QC from ch. 69

El Centro 58 ***NEW-LP*** AF dismissed

**Huntington Beach** 48 ***KOCE-DT*** NW 1000kw/ 949m

Likely	5	K05ET	PG>1kw, 41-09-19/ 120-33-45; QG from no offset to plus	Idalia	22	K22GQ	NW 590w, 39-43-50/ 102-28-56
Los Angeles	27	KNLA-LP	QG from ch. 68, 6kw rescinded; LC dismissed	Julesburg	51	K51IL	QC from K39AC, 670w
Mammoth Lakes Modesto	22 44	KMMH-LP K44HW	CC from K22HB QG from K49EO, 50.2kw, 37-43-45/ 121-11-49	Julesburg	53	K53IY	QC from K43BY, 670w
Needles	31	K31HY	QC from K19BR, 1.06kw, 35-02-09/ 114-22-14 (KNXV-15 via ch. 44)	<b>Sterling</b>	<b>23</b>	<b>KUPN-DT</b>	<b>PR&gt;1000kw/509, 39- 55-22/ 103-58-18 dismissed</b>
Palermo	4	K04QC	QC from K51BP, 3kw, 39-27-46/ 121- 34-49 (KZVU-LP 22)	Trinidad/ Valdez	15	K15GL	QC from K69CX, 640w, 37-08-45/ 104- 28-09
Red Bluff	64	K64GD	FC; sold by TBN	Vail	45	K45IE	NW 60w, 39-38-38/ 106-32-14
Redding	2	K02QA	PR>500w	Wray	58	K58GV	NW 610w, 40-03-15/ 102-13-32
Redding	29	K29FZ	PG 7w, 40-33-51/ 122-26-00	<b>Connecticut:</b>			
Redding	47	K47GR	FC; sold to Family Stations	<b>Hartford</b>	<b>33</b>	<b>WFSB-DT</b>	<b>NW 1000kw/289</b>
<b>Sacramento</b>	<b>21</b>	<b>KMAX-DT</b>	<b>NW 850kw/581m</b>	<b>Waterbury</b>	<b>12</b>	<b>WTXX-DT</b>	<b>PG&gt;515m</b>
<b>Sacramento</b>	<b>55</b>	<b>KTXL-DT</b>	<b>PC&gt;1000kw</b>	<b>Delaware:</b>			
<b>San Bernardino</b>	<b>30</b>	<b>KPXN</b>	<b>PR 2630kw/894, 34- 12-46/ 118-03-42 dismissed</b>	Rehoboth Beach	59	W59DZ	FC; sold by TBN
<b>San Bernardino</b>	<b>38</b>	<b>KPXN-DT</b>	<b>PR&lt;899m, 34-13-42/ 118-04-01 dismissed</b>	<b>Florida:</b>			
<b>San Diego</b>	<b>19</b>	<b>KSWB-DT</b>	<b>NW 323kw/598m</b>	Fort Myers	4	WEVU-CA	PC>3kw
<b>S Francisco</b>	<b>27</b>	<b>KTSF-DT</b>	<b>NW 500kw/403m</b>	<b>Fort Pierce</b>	<b>21</b>	<b>WTCE-TV</b>	<b>CC from WTCE</b>
<b>Stockton</b>	<b>62</b>	<b>KTFK-DT</b>	<b>PR&lt;195kw/935m</b>	Haines City	14	WTOF-LP	FC; sold to Daystar
Susanville	29	K63CM	QR from ch. 63, 999w, 40-26-49/ 120- 21-25 dismissed (// KRNV-4)	Key West	5	W05CJ	NW 3kw, 24-33-18/ 81-48-07
<b>Ventura</b>	<b>49</b>	<b>KJLA-DT</b>	<b>NW 1000kw/937, 34- 13-35/ 118-03-58</b>	<b>Key West</b>	<b>8</b>	<b>WGEN-TV</b>	<b>PG&lt;2.65kw/55m, 24- 33-18/ 81-48-05</b>
<b>Watsonville</b>	<b>58</b>	<b>KCAH-DT</b>	<b>NW 151kw/699m</b>	Key West	10	W10CQ	3kw, 24-33-18/ 81-48-07
<b>Colorado:</b>				<b>Key West</b>	<b>12</b>	<b>WGEN-DT</b>	<b>NW 210w/56m, 24- 33-18/ 81-48-05</b>
Alamosa	39	K39GD	XR 37-28-06/ 105-51- 58	Key West	25	NEW-LP	AF dismissed
Basalt	5	K04HO	QR from ch. 4	Marathon	50	NEW-LP	AF dismissed
Cripple Creek	14	K57BY	QC from ch. 57, 1kw, 38-46-21/ 104-59-32	Mayo	40	W09CN	QR from ch. 9, 150kw dismissed
Cripple Creek	30	K55CJ	QC from ch. 55, 110kw, 38-59-13/ 104-55-12	<b>New Smyrna Beach</b>	<b>33</b>	<b>WCEU-DT</b>	<b>NW 308kw/491m, 28-36-35/ 81-03-35</b>
Cripple Creek	59	K59BZ	PC>150kw, 38-46-21/ 104-59-33	<b>Orange Park</b>	<b>10</b>	<b>WJXX-DT</b>	<b>PC 11.1kw/307m</b>
Denver	30	K55IO	QR from ch. 55, 49.3kw dismissed	<b>Panama City</b>	<b>8</b>	<b>WJHG-DT</b>	<b>NW 52kw/244m</b>
Denver	33	KMAS-LP	QG from ch. 63, 69kw	Panama City	26	W26BV	PG>150kw, 30-24-13/ 86-59-34
Denver	49	K61AA	QR from ch. 61, 7.5kw; CL from Estes Park dismissed	Pensacola	33	WHBR	XR 30-36-45/ 87-38-43
Dove Creek	34	K34IA	NS 1.17kw, 37-45-37/ 108-54-39	Port Richey	18	W18DB	PC 18kw, 28-19-12/ 82-41-52 (WMOR-32)
Glen Haven	58	K08IS	QR from ch. 8, 150kw, 40-15-56/ 105-33-37 dismissed	Port St. Lucie	35	W35BS	NW 26.8kw, 27-07-14/ 80-23-59
Glen Haven	64	K10JY	QR from ch. 10, 150kw, 40-15-56/ 105-33-37 dismissed	Sebring	23	W23CN	QC from W27AE, 11kw
Haxtun	39	K39HM	QC from K53AJ, 890w	<b>Georgia:</b>			
Haxtun	43	K43JJ	NW 890w, 40-38-57/ 102-40-58	<b>Atlanta</b>	<b>20</b>	<b>WTBS-DT</b>	<b>PC&gt;1000kw</b>
				<b>Atlanta</b>	<b>21</b>	<b>WPBA-DT</b>	<b>NW 55.4kw/266m</b>
				<b>Atlanta</b>	<b>39</b>	<b>WSB-DT</b>	<b>PC&gt;1000kw/301</b>
				Atlanta	45	WYGA-CA	CC from WDAH; FC, sold by Daystar
				<b>Dalton</b>	<b>16</b>	<b>WELF-DT</b>	<b>PR&lt;425m</b>
				Dublin	35	W35BB	PR>150kw; PG
				Savannah	20	WHDS-LP	PR<12kw
				<b>Hawaii:</b>			
				Honolulu	46	KHLU-LP	PG<6.55kw
				<b>Kailua</b>	<b>50</b>	<b>KKAI</b>	<b>PG&lt;19kw/340m, 21- 19-23/ 157-40-53</b>

Kula	46 NEW-LP	AF dismissed	42-18-27/
Waimanalo	56 KMGJ	PG<19kw/340m, 21-19-23/157-40-53	71-13-27
<b>Idaho:</b>			<b>Boston</b> 20 WCVB-DT NS 200kw/191m (aux)
Bliss	50 NEW-LP	AF dismissed	<b>Marlborough</b> 23 WUTF-DT NW 100kw/334m
Boise	39 KKJB	NW 1295kw/534, 43-44-23/116-08-15	<b>New Bedford</b> 49 WLNE-DT NW 350kw/284m, 41-51-54/71-17-15
Boise	41 KBTI-LP	CC from K411V	<b>Michigan:</b>
Idaho Falls	49 NEW-LP	AF dismissed	<b>Flint</b> 66 WSMH PG>1750kw/362, 43-13-31/84-04-33
Idaho Falls	51 K51IM	NS 4kw, 43-29-30/112-02-53	Flint 54 WXON-LP PG>150kw, 43-08-04/83-35-42
Lewiston	15 K15CH	FC; sold to KWSU-10 (PBS)	Flint 32 WHNE-LP PR>35.4kw, 43-10-23/83-40-51
Lewiston	61 KIDQ-LP	CC from K61HN	<b>Minnesota:</b>
Malad City	46 NEW-LP	AF dismissed	Appleton 46 NEW-LP AF dismissed
<b>Illinois:</b>			Austin 28 NEW-LP AF dismissed
<b>Champaign</b>	41 WICD-DT	PG 950kw/375m	Deer River 59 K59BQ PC 11.3kw, 47-21-25/93-45-13 (KDLH-3)
Chana	46 WBKM-LP	PG 35.5kw, 41-59-46/89-12-11	Duluth 23 K23HG NS 10kw, 46-47-07/92-07-13
<b>Chicago</b>	38 WCPX	PG 3630kw/510, 41-52-44/87-38-08	Minneapolis 25 K25IA QC from K58BS, 148kw, 44-58-34/93-16-20
Chicago	41 WOCH-LP	PR>50kw	Minneapolis 43 K43HB PG>80kw
<b>Freepport</b>	41 WIFR-DT	PG<53kw/220m; NW	Minneapolis 7 WTMS-CA CC from K07UI; FC, sold by Daystar
<b>Mt. Vernon</b>	13 WPXS	FC; sold to Daystar (but temporarily "Lick TV")	Redwood Falls 25 K25II QG from K54GH, 720w, 44-33-15/94-58-02
<b>Springfield</b>	36 NEW	AF 200kw, 29-41-29/89-41-27 dismissed	<b>Mississippi:</b>
<b>Springfield</b>	42 WICS-DT	PG 950kw/402m	Calhoun City 34 W34BJ PC>50kw, 34-01-17/89-21-17
<b>Springfield</b>	44 WRSP-DT	PR<335kw/415m	Cleveland 8 WHCQ-LP PG>3kw
<b>Urbana</b>	26 WCCU-DT	PR<507kw/114m	Cleveland 56 W56DY NW 2.4kw, 33-44-01/90-42-50 (TBN)
<b>Indiana:</b>			<b>Greenwood</b> 32 WABG-DT NS 1000kw/572m
<b>Fort Wayne</b>	40 WFWA-DT	NW 90kw/221m	34 WRBJ PR 1250kw/392, 32-07-09/89-32-34
<b>Iowa:</b>			Meridian 5 NEW-LP AF dismissed
<b>Des Moines</b>	16 KDSM-DT	NW 500kw/612m, 41-49-47/93-36-56	<b>Missouri:</b>
<b>Kansas:</b>			Branson 38 KBNS-CA PR<134kw
Emporia	40 NEW-LP	AF dismissed (2 apps, same applicant, different sites ~15mi. apart)	Danville 48 K48JB NS 30kw, 38-54-26/91-33-39 (Daystar)
<b>Lakin</b>	8 KSWK-DT	PG<33kw/153m; NW	Kansas City 48 KUKC-LP CC from K48FS
Pittsburg	59 K59HT	FC; sold by TBN	Neosho 32 KCLG-CA PC>5kw
<b>Wichita</b>	45 KSNW-DT	NW 891kw/312m	<b>St. Louis</b> 2 KTVI NW 46kw/308m (aux)
<b>Kentucky:</b>			St. Louis 38 K38HD PG>150kw, from minus offset to zero
Glasgow	62 W62DC	NW 20kw, 36-58-37/85-53-48	St. Louis 51 KUMO-LP FC; sold to Daystar
Louisville	13 WBXV-CA	PC>750w, 38-21-55/85-50-24	<b>Montana:</b>
<b>Louisiana:</b>			Billings 30 NEW-LP AF dismissed
Alexandria	2 K02QB	NS 2w, 31-16-04/ 92-26-23	Bozeman 23 NEW-LP AF dismissed
<b>Alexandria</b>	25 KLPA-TV	PC<1690kw/413	Butte 34 K34HY NS 10w, 46-00-44/112-33-59
<b>Baton Rouge</b>	25 WLPB-DT	PC>200kw	Butte 50 K50II NS 4kw, 46-00-23/112-26-29
<b>Monroe</b>	7 KNOE-DT	NW 17kw/518m	Great Falls 31 K31IA QG from K53DW, 9.6kw
<b>New Orleans</b>	38 WNOL-TV	PG<2880kw/309, 29-58-57/89-56-58	Helena 41 K41CX PC<9.8kw, 46-46-07/112-01-21
New Orleans	47 K47JQ	QG from K66FW, 120kw	
Shreveport	40 KADO-LP	QC from ch. 15, 75kw	
Shreveport	47 K47HO	PG>21kw	
<b>Maryland:</b>			
<b>Baltimore</b>	38 WJZ-DT	NW 1000kw/312	
Frederick	22 W22DA	QC from W52AS, 37.3kw	
<b>Massachusetts:</b>			
<b>Boston</b>	32 WBPX-DT	NW 300kw/292m,	

Missoula	19 NEW-LP	AF dismissed	<b>New York:</b>		
Red Lodge	39 K39HD	PC 807w, 45-07-19/ 109-16-11 (KTVO-2)	<b>Amsterdam</b>	55 WYPX	PR<220m, 42-59-04/ 74-10-56
<b>Nebraska:</b>			Hempstead	32 W32DF	QG from W29CF, 20kw
Norfolk	46 KAZJ-LP	PG 75kw, 42-01-41/ 97-20-25; NW	Ogdensburg	13 W13DG	NS 1kw, 44-42-31/ 75-25-31
North Platte	40 K40IF	NS 20kw, 41-03-38/ 100-45-53	<b>Rochester</b>	13 WHAM-TV	CC from WOKR
<b>Omaha</b>	7 KETV	PC>419m	<b>Utica</b>	27 WFXV-DT	NS 688kw/433m
Scotts Bluff	47 NEW-LP	AF dismissed	<b>North Carolina:</b>		
South Sioux City	23 KAZS-LP	NW 87.7kw, 42-28-21/ 96-25-20	Manteo	17 W17CT	NW 10.8kw, 35-51-52/ 75-39-01
South Sioux City	60 K60GS	NS 20kw, 42-28-21/ 96-25-20	Manteo	28 W28CJ	NW 10.8kw, 35-51-52/ 75-39-01
Valentine	27 K27II	NS 10.1kw, 42-53-22/ 100-33-15	<b>Washington</b>	7 WITN-TV	PG<575m
<b>Nevada:</b>			<b>North Dakota:</b>		
Elko	23 K23FC	QG from K67FT, 820w	Bismarck	44 K44HU	NS 20kw, 46-35-23/ 100-47-39
Fallon	51 K51IA	NS 12.72kw, 39-29-17/ 118-45-08 (KRXI-11)	Bismarck	48 NEW-LP	AF dismissed
Las Vegas	35 KVTE-LP	CC from KYRK	<b>Dickinson</b>	20 KDSE-DT	NW 54.1kw/208m
Pahrump	26 K26HU	NS 150kw, 36-11-28/ 115-56-40	<b>Ellendale</b>	20 KJRE-DT	NW 72.3kw/163m
Pahrump	30 KPVT-LP	PC 45kw, 36-12-15/ 115-57-13	<b>Ohio:</b>		
<b>Paradise</b>	39 KBLR	PR<363m, 36-00-36/ 115-00-20; PG; PC	Columbus	19 WCLL-LP	FC; sold to Daystar
<b>Paradise</b>	40 KBLR-DT	PR>363m, DA	<b>Toledo</b>	5 WLMB-DT	NW 10kw/155m
Tonopah	13 K13YU	NS 3kw, 38-04-30/ 117-13-14 (Sunbelt)	<b>Oklahoma:</b>		
<b>New Hampshire:</b>			Durant	44 K44HV	NS 5kw, 33-54-56/ 96-26-55 (TBN)
Manchester	28 W29AT	QR from ch. 29, 1.04kw, 42-45-45/ 71-27-29	Oklahoma City	36 KCHM-LP	PG<30kw; FC to Telefutera
<b>New Jersey:</b>			<b>Oklahoma City</b>	39 KWTV-DT	NS 530kw/478m, 35- 35-52/ 97-29-22
<b>Burlington</b>	48 WGTW-TV	CC from WGTW	Shawnee	30 KTUZ-TV	PG<3800kw/244
<b>Newark</b>	53 WFUT-DT	NW 310kw/321m, 40-45-22/ 73-59-12	Tulsa	26 960930KG	QR from ch. 63, 355kw/133m
<b>New Mexico:</b>			Tulsa	45 KUTU-CA	CC from KLOT; FC to Univision
Albuquerque	30 KYNM-LP	QC from ch. 39, 8.41kw	<b>Oregon:</b>		
Caballo	20 K20HA	NW 640w, 32-58-17/ 107-13-25 (KOB-4 NBC)	Ashland	63 KFBI-LP	PC>250w, 42-17-54/ 122-44-53
Capulin & Des	48 K48JH	QG from K62AR, 940w	Astoria	17 K17HA	NS 18kw, 46-17-11/ 123-53-45
Farmington	43 K43AI	PR<8.56kw	<b>Eugene</b>	29 KEPB-DT	NW 100kw/403m
Forrest	31 K31GC	QC from K61AF, 9.23kw	Gold Hill	2 K02FT	PG>1kw, from no offset to plus
Gallup	18 K18HF	NS 1.07kw, 35-32-08/ 108-44-28 (KASA-2); NW	<b>La Grande</b>	5 KTVR-DT	NW 6kw/775m
Gallup	21 K20GC	QR from ch. 20	<b>La Grande</b>	13 KTVR	PC>65kw/775m
Indian Village	21 K20GT	QR from ch. 20, 1.65kw dismissed	Pendleton	16 KORX-CA	PC>84.8kw, 45-59-04/ 118-10-08
Roswell	23 NEW-LP	AF dismissed	<b>Portland</b>	45 KNMT-DT	PR<455m
Roswell	25 K25IK	NS 7kw, 33-24-05/ 104-22-45 (KENW-3)	Rainier	47 K47JJ	NS 1.5kw, 46-10-55/ 122-57-00
			<b>Salem</b>	4 KPXG-DT	NW 16kw/490m, 45- 31-21/ 122-44-45
			<b>Pennsylvania:</b>		
			Hazleton	45 WOLF-DT	PG<420kw
			<b>Jeannette</b>	49 WNPA-DT	QR from ch. 30, CL from Johnstown
			<b>Pittsburgh</b>	16 WOEX	PR<213m
			<b>Pittsburgh</b>	25 KDKA-DT	PC>1000kw
			<b>Pittsburgh</b>	43 WPGH-DT	NW 1000kw/312
			<b>Pittsburgh</b>	51 WTAE-DT	PC>1000kw/273
			<b>Pittsburgh</b>	53 WPGH-TV	PC>312m
			Pottsville	18 W61AG	QR from ch. 61



<b>Reading</b>	25	WTVE-DT	PG>900kw/395m, 40-19-52/ 75-41-41	Laredo Livingston	25 15	KZLD-LP K15GR	FC; sold to Univision PR 2.5kw, 30-41-38/ 94-56-12 dismissed
<b>Rhode Island:</b>							
<b>Providence</b>	54	WNAC-DT	NW 1000kw/295	Lubbock Lufkin	7 42	NEW-LP KLNLM-LP	AF dismissed PR>50kw, 31-24-29/ 94-45-52; PG
<b>South Carolina:</b>							
<b>Florence</b>	45	WJPM-DT	PG 45kw/242m				NS 7.19kw, 31-19-24/ 94-47-23
<b>Greenville</b>	9	WNTV-DT	NW 65kw/378m				
<b>Greenwood</b>	18	WNEH-DT	PR<49kw/230m; NW	Lufkin	48	K48IO	
N. Charleston	22	WAZS-LP	CC from WTBD				
<b>Sumter</b>	27	WRJA-TV	PC<647kw				
<b>South Dakota:</b>							
<b>Lowry</b>	15	KQSD-DT	PC>50kw	McAllen Mesquite	35 50	KZMC-LP KATA-LP	FC; sold to Univision XR 32-35-21/ 96-58-13 dismissed
Pierre	42	NEW-LP	AF dismissed				AF dismissed
<b>Tennessee:</b>							
<b>Chattanooga</b>	13	WRCB-DT	NW 34.8kw/335, 35- 09-40/ 85-18-51	Midland/ Odessa Pampa	5 34	NEW-LP K34HU	FC; sold to Hispanic Christian organization
<b>Chattanooga</b>	40	WDSI-DT	PG<84kw	Plainview	18	K18HC	FC; sold by TBN to Hispanic religious organization
<b>Hendersonvl.</b>	51	WPGD-DT	NW 264kw/417m, 36-16-03/ 86-47-44	Plainview	24	K24GO	NS 1kw, 34-12-55/ 101-52-59
Lewisburg	34	W34DB	PR<8.9kw, 35-26-55/ 86-47-23; PG				AF dismissed
Memphis	23	WJRJ-LP	QR from ch. 19, 150kw, 35-06-44/ 89-53-31	San Angelo San Angelo	28 34	NEW-LP K34HX	NS 5w, 31-27-21/ 100-27-17
Pigeon Forge	46	W46DV	NS 15kw, 35-46-58/ 83-37-03	<b>San Antonio</b> San Antonio <b>San Antonio</b> Victoria West Lake Hills	<b>23</b> 40 <b>58</b> 13 47	<b>KHCE-TV</b> K40IH <b>WOAI-DT</b> KRTS-LP KTXU-LP	<b>CC from KHCE</b> QG from K48DS, 7kw <b>PC&gt;776kw</b> CC from K13YM QC from ch. 38, 3kw, 30-19-23/ 97-47-58; CL from San Marcos
<b>Texas:</b>							
Abilene	31	K31ID	NS 50kw, 32-17-13/ 99-44-20				NS 1kw, 30-46-45/ 94-24-30
Abilene	46	K46IG	NS 25kw, 32-17-13/ 99-44-20	Woodville	23	K23HF	NS 20kw, 30-46-44/ 94-23-37
Amarillo	50	KAMT-LP	QC from ch. 31, 150kw, 35-20-33/ 101-49-20	Woodville	53	K53IV	
Amarillo	59	K59HG	NW 25.8kw, 35-20-33/ 101-49-20	<b>Utah:</b> Beaver	44	K44HT	NS 500w, 38-27-04/ 112-39-05
Amarillo	69	K69IH	NW 13.6kw, 35-15-41/ 101-52-52	Beaver	46	K46IB	NS 500w, 38-27-24/ 112-39-27
<b>Austin</b>	24	KVUE	PC<1696kw/393				PG<350w, 37-50-22/ 109-27-42
<b>Beaumont</b>	34	KITU-TV	CC from KITU	Blanding	44	K44AG	PG<350w, 37-50-22/ 109-27-42
<b>Borger</b>	31	KEYU-DT	NW 700kw/306m, 35-20-33/ 101-49-20	Blanding	46	K46AF	PG<350w, 37-50-22/ 109-27-42
Brownsville	20	KZAV-LP	FC; sold to Univision				NS 300w, 37-50-22/ 109-27-41
Clear Lake	25	KVDO-LP	PR>150kw				PR<1.33kw
<b>Conroe</b>	42	KTBU-DT	NW 1000kw/597, 29- 33-44/ 95-30-35	Blanding	47	K47JI	PR<970w, 37-50-32/ 112-58-27
<b>C. Christi</b>	3	KIII	PG>292m; PC	Brian Head	35	K35HG	PR<970w, 37-50-32/ 112-58-27
<b>Corpus Christi</b>	38	960111LP	NS 1000kw/595, 27- 23-56/ 97-28-42	Brian Head	49	K49HC	PR<970w, 37-50-32/ 112-58-27
Corpus Christi	49	KCBO-LP	QG from ch. 7, 9.9kw	Brian Head	51	K51HQ	PR<970w, 37-50-32/ 112-58-27
Corpus Christi	49	NEW-LP	AF dismissed				QG from K18BK, 80w
Corpus Christi	61	KCCZ-LP	NW 50kw, 27-45-10/ 97-27-19	Circleville Kanab	17 28	K17HD K28IT	NS 320w, 37-03-34/ 112-31-12
Dallas/ Mesquite	34	KJJM-LP	PG>125kw, QG from zero offset to plus				NS 45w, 37-15-36/ 109-17-22
<b>El Paso</b>	15	KFOX-DT	PR<602m	Montezuma Creek	4	K04QD	NS 45w, 37-15-36/ 109-17-22
Gainesville	69	KBFW-LP	XR 33-00-20/ 96-58-59	Montezuma Creek & Aneth	8	K08NU	NS 45w, 37-15-36/ 109-17-22
<b>Harlingen</b>	44	KLUJ-TV	CC from KLUJ	Montezuma	10	K10PB	NS 45w,
Hereford	44	K44GW	FC; sold to Hispanic Christian organization				
<b>Houston</b>	14	KETH-TV	CC from KETH				

Creek		37-15-36/ 109-17-22	
Montezuma Creek & Aneth	11 K11VR	NS 45w, 37-15-36/ 109-17-22	
Navajo Mountain School	9 K09XX	NS 45w, 37-01-16/ 110-45-58	
New Castle	49 K49IF	NS 246w, 37-42-14/ 113-44-29	
Park City	39 K39HP	NS 280w, 40-38-00/ 111-31-22 (KUWB- 30); NW	
Salina & Redmond <b>Salt Lake C.</b> <b>Salt Lake City</b>	18 K18HO  5 <b>KSL-TV</b> 38 <b>KSL-DT</b>	QC from K62BP, 160w <b>PC 33.4kw/1168</b> <b>NW 295kw/1128, 40- 39-35/ 112-12-02 (aux)</b>	
Santa Clara & Washington	48 K48JD	NS 2.24kw, 37-09-15/ 113-51-32	
Tropic & Cannonville	29 K29GJ	NS 600w, 37-42-40/ 112-04-39	
<b>Vermont:</b>			
<b>Burlington</b>	32 <b>WETK-DT</b>	<b>PR&lt;25kw</b>	
St. Albans	41 W41CW	QG from W52CD	
<b>St. Johnsbury</b>	18 <b>WVTB-DT</b>	<b>PR&lt;23.5kw</b>	
<b>Virginia:</b>			
<b>Arlington</b>	14 <b>WFDC-TV</b>	<b>PG&lt;2680kw</b>	
Charlottesville	27 WADA-LP	QC from ch. 55, 50kw, 37-58-59/ 78- 29-02	
Craddockville	42 W42DA	QG from W63AM, 31.1kw	
Craddockville	48 W48DJ	QG from W68BH, 32.8kw	
Farmville	28 WFMA-LP	QC from ch. 52, 33kw, 37-13-38/ 77- 23-25	
Harrisonburg Norfolk	5 WDOB-LP 45 WNLO-CD	QG from ch. 58, 3kw PC<15kw; converts to digital operation	
Onancock	30, W30CI, 34, W34DN, 39 W39CS	PG<19.4kw, 19.2kw, 19kw	
Portsmouth	14 W14CZ	QG from W56CS, 83.3kw	
Portsmouth	17 WKTD-LD	granted conversion to digital, 14.35kw, 36- 49-14/ 76-30-41	
<b>Richmond</b>	57 <b>WCVV</b>	<b>PG&lt;50kw</b>	
Roanoke	44 W44CL	QG from W34CU, 100kw	
Tazewell	21 WJDW-LP	PC>27.5kw	
<b>Washington:</b>			
Anacortes	40 NEW-LP	AF dismissed	
Ellensburg	51 K51BD	PG>21kw	
Seattle	58 KUSE-LP	CC from K58DP; sold by Daystar	
<b>Spokane</b>	36 <b>KSKN-DT</b>	<b>NW 1000kw/622</b>	
Walla Walla	16 KORX-CA	PC>84.8kw, 45-59-04/ 118-10-08	
<b>West Virginia:</b>			
Clarksburg	16 W16CG	NS 8kw, 39-17-06/ 80-19-47	
Clarksburg	56 W56EI	FC; sold by TBN	
Clarksburg	62 W62DF	FC; sold by TBN	
Huntington	14 W14CU	PG, 50kw	

<b>Wisconsin:</b>		
<b>Appleton</b>	27 <b>WACY-DT</b>	<b>QG from ch. 59</b>
<b>Janesville</b>	32 <b>WBUW-DT</b>	<b>NW 200kw/387m, 43-03-03/ 89-29-13</b>
<b>Janesville</b>	57 <b>WBUW</b>	<b>PC&gt;415m, 43-03-03/ 89-29-13</b>
<b>La Crosse</b>	30 <b>WHLA-DT</b>	<b>PG&lt;345m</b>
<b>La Crosse</b>	31 <b>WHLA-TV</b>	<b>PG&lt;345m</b>
<b>Madison</b>	11 <b>WMSN-DT</b>	<b>NW 15kw/471m</b>
Milwaukee	38 W53CC	PR>50kw
<b>Wyoming:</b>		
<b>Casper</b>	13 <b>KCWY</b>	<b>PC 10.9kw/488m, 42-44-45/ 106-21-14</b>
Cheyenne	14 K14LV	FC; sold to Hispanic Christian organization
Evanston	23 K23DS	FC; sold to KCWC-4
Glendo	58 K58GQ	NW 1kw, 42-30-13/ 104-59-57
Greybull	56 K56GY	NW 1kw, 44-27-01/ 108-02-58
Laramie	25 K25IE	NS 10kw, 41-04-53/ 105-29-03
Rawlins	26 K26HV	NS 37w, 41-46-15/ 107-14-16 (KCWC-4); NW
Rock Springs	24 NEW-LP	AF dismissed

Thanks to Roy Barstow, Glenn Hauser, Keith Butkovich, and David Cox for information appearing elsewhere in this month's column...

WNPA-19 successfully applied to change their city of license from Johnstown, Pennsylvania to the Pittsburgh suburb of Jeannette years ago. However... when the FCC handed out the digital channels, they missed the city-of-license change.

WNPA-DT's assigned DTV channel was 30, and it was assigned to Johnstown. Channel 30 was not suitable for DTV use at the station's desired site covering Jeannette. You will note this month that the station has requested that the Commission correct the error by assigning DTV channel 49 to Jeannette.

The FCC has denied the application of KJLA-57 to shut down their analog transmitter and become a DTV-only station on channel 49.

In their decision, the Commission held that:

- ✍ Vacating channel 57 will not "pave the way for new... wireless services". Channel 57 has not yet been auctioned, so the early release of that channel will not expedite new use of the spectrum.
- ✍ Closing the analog transmitter would

"disenfranchise" a significant number of analog-only viewers. Only 0.25% of KJLA's viewers use over-the-air analog reception. But in a market the size of Los Angeles, 0.25% is a significant number of people.

- ✂ KJLA's unique Spanish-language programming would be lost to analog-only viewers.
- ✂ Other stations to which KJLA compared themselves (WNVT-53, KVMD-31, WWAC-53) were able to demonstrate no loss of analog service would result from conversion to digital-only service.
- ✂ WNVT also proved that the cost of being forced to continue analog transmission would force them to sacrifice much of their unique programming. KJLA offered no argument of financial hardship.

Roy Barstow reports seeing WAVY-DT on both channels 17 and 31 during the recent East Coast tropo opening.

WAVY's digital signal is supposed to be on channel 31. Channel 17, however was a mystery. For a few minutes.

#### VARTV.com

<http://www.vartv.com/archives04d.htm> reports WKTD-CA Portsmouth and WNLO-CA Norfolk applied last year for permission to switch to digital operation on their existing analog channels. WKTD is on channel 17; WNLO on channel 45. Both stations were relaying WAVY in analog mode. It would be reasonable to expect them to continue to do so in digital.

The FCC has not yet issued any permits for digital LPTV/Class A stations under their new rules adopted late in 2004. However, they have authorized a few digital LPTVs on a case-by-case basis.

David noted a brief page on the "ABC 33/40" (WCFT-Tuscaloosa/WJSU-Anniston) website, about their DTV facilities. WCFT-

DT is currently on the air, on channel 5 with 9.5kw from the same tower as their analog station on channel 33.

WJSU-DT is expected on the air about the time you read this, on channel 9 with 15.6kw on the same tower as their analog station on channel 40.

David says he's not having any luck with WCFT-DT, but they're on the wrong side of two mountains. We had a good tropo opening from my location to WCFT-33 this morning, but their DTV on channel 5 is a lost cause here with WTVF blasting out 100kw of analog only 20 miles away.

Ronald notes KTTC-DT "keeps cutting out and is coming from KTTC's studio". KSTP-DT is also "cutting out" at his location in southern Minnesota.

DTV is new to all of us, including station engineers. That said, I wouldn't expect a major station like KSTP to have regular signal dropouts. I wonder if there's some closer source of interference to KSTP reception at Ronald's location?

Glenn Hauser forwarded an article from an Oklahoma City Hispanic newspaper about new Univision and Telefutera stations in Oklahoma. I already had KUOK-CA 11 Norman listed as Univision, but Glenn's article indicates this station is also airing local news, in Spanish, at 5 and 10pm Monday through Friday. KUOK-CA is also simulcast on KUTU-CA channel 25 in Tulsa.

The same article lists KCHM-LP channel 59 in Oklahoma City as a Telefutera station, not the America's Store home shopping I had listed.

Finally, Keith Butkovich confirms WUDT-CA Detroit is a Univision affiliate. The station has in fact moved from channel 5 to channel 23.

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## **WESTERN TV DX CONTINUES FROM PAGE 23**

1500 KUSD 2 SC "SDPB"  
1559 KPRY 4 SD KSFY  
1600 KXMA 2 ND  
KXJB 4 ND "KX4"  
1700 WBAY 2 WI

### JANUARY 2005 CT

4 Es 1620 XEZ 2 GTO San Miguel; 3-line LL

1630 XHLGT 2 GTO Leon; 3-line UR  
11 Es 0850 WJBK 2 MI  
0903 KDKA 2 PA  
0910 KWGN 2 CO

0950 KNAZ 2 AZ  
20Es 0738 KWGN 2 CO  
0807 Salt Lake City 2, 4, 5  
0820 KREX 5 CO

Note # 1 XHFM is now // Televisa independent XHAI-9. IDs show circle-2 and circle-9 logos. XHFM no longer relays Galavision/XEQ-9.

Comment: New log XHLGT-2 Leon GTO ID was recorded while I was at my son's Tae Kwon Do class.



# FM News

## March 2005

Adam Rivers  
37 Carlton Ave.  
Chicopee, MA 01020

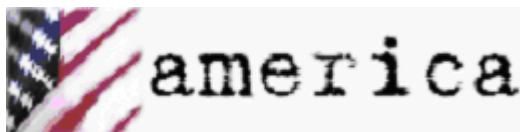
Email: redsoxdxer417@hotmail.com

Adam Rivers-37 Carlton Ave.-Chicopee, MA 01020-  
patriotsrule417@yahoo.com

### ABBREVIATIONS:

AF: applied for (a new station)  
AFA: American Family Association  
CC: call letter change  
CL: city of license change  
CX: a construction permit has been cancelled  
C1, C2, etc.: a change in status to that FM license class  
DA: directional antenna  
DE: station has been deleted  
FC: format change  
GA: granted amendment to the table of FM allocations  
GE: granted extension of construction permit  
GX: granted replacement of expired permit  
LC: license to cover filed (ready to come on the air)  
MC: multiple-city ID  
NC: no change yet on a reported change or permit  
ND: non directional antenna  
NO: not on the air  
NS: new station granted

NW: new station signs on  
OSA: one step application granted for change  
PA: proposed amendment change to FM allocation table  
PC: power change on the air (> = increase, < = decrease)  
PG: power change granted (> = increase, < = decrease)  
PR: power change requested  
QC: frequency changed occurred  
QG: frequency change granted  
QR: channel change requested  
RA: silent stations returns to the air  
RE: station requests an extension on permit  
RX: station requests replacement of expired permit  
SC: slogan change or update  
SI: station is silent  
SOA: signed on air  
XA: dismissed amendment to FM allocations  
XC: transmitter site change occurred  
XG: transmitter site change granted



### ALABAMA:

Atmore: WYOK 104.1, PR>98.4kw/521m, 30-36-45/87-38-43  
Dadeville: WKGA 100.3, QC from 97.3, 2.2kw/167m  
Eufaula: WRVX 97.9, PC>6kw  
Goodwater: WZLM 97.5, PC 5.1kw/108m, 33-01-42/85-59-23; CL from Talladega  
Jemison: WEZZ 97.7, PC>3.1kw/140m, 32-58-12/86-43-04; CL from Clanton  
Littleville: WMXV 103.5, PG 3.2kw/138m  
Luverne: WNTM 104.3, CC to WHLW  
Mobile: WBLX 92.9, PR>98.4kw/521m, 30-36-45/87-38-43  
Union Springs: WQSI 93.9, QG from 94.1, 12.5kw/143m, 32-19-04/85-40-16

### ALASKA:

Anchorage: KMXS 103.1, PC>100kw/32m, 61-11-33/149-54-01

### ARIZONA:

Phoenix: KFLR 90.3, PR>100kw/491m  
Tucson: KFLT 88.5, calls for new station  
Tucson: KUAZ 89.1, PG>1.6kw/187m, 32-12-53/111-00-21  
Tucson: KAIC 88.9, calls for new station  
Wickenburg: KSWG 96.3, QG from 94.1, 100kw/600m, 33-54-17/112-58-22  
Window Rock: KWIM 104.9, QC from 102.7, 30kw

### ARKANSAS:

Barling: KOLX 94.5, PC<18.5kw/82m, 35-15-54/94-21-52  
Heber Springs: KBMJ 89.5, PR>70kw  
N. Little Rock: KDRE 101.1, CC to KWBF-FM  
Pocahontas: KPOC 104.1, PC>6kw  
Wrightsville: KLAL 107.7, PC>100kw/226m, 34-36-34/92-14-14

### CALIFORNIA:

Arnold: KBYN 95.9, PC 860w/263m, 38-22-40/120-11-33  
Barstow: KWTH 91.3, PR 1.6kw/690m  
Camarillo: KOCP 95.9, PG<2.4kw/160m, 34-24-47/119-02-13  
Laytonville: KLAI 90.3, calls for new station  
Los Molinos: KCEZ 102.1, PR<67m  
Ontario: KDAI 93.5, XC 34-10-32/117-34-26  
Oxnard: KCAQ 104.7, PG 50kw/150m, 34-24-47/119-02-13

Point Reyes Station: KWMM 90.5, PC>20w/325m, 38-04-48/122-51-57  
Redondo Beach: KDAY 93.5, PC 3.4kw/132m, 33-51-35/118-20-56  
San Joaquin: KWOL 105.5, CC to KUUS, XC 36-36-28/119-59-49  
Shafter: KGLV 89.5, calls for new station

### COLORADO:

Bennett: KSIR 107.1, PC>100kw/589m, 39-55-22/103-58-18; CL from Brush  
Burlington: KNAB 104.1, PA to 104.3  
Colorado Springs: KKCS 101.9, PC<50kw/150m, 39-08-11/104-55-34  
Colorado Springs: KEPC 89.7, PG>10kw/-78m, 38-45-41/104-47-04  
Denver: KFMD 95.7, PR<100kw/238m  
Glenwood Springs: KMTS 99.1, PC>-69m  
Julesburg: KJBL 96.5, CC from KKYT  
La Junta: KFVR 106.5, FC to rhythmic CHR "Jammin' 106-5"  
Sterling: KDRE 90.7, CC from KTUV

### CONNECTICUT:

Guilford: WGRS 91.5, PG>51m

### DELAWARE:

Bethany Beach: WOSC 95.9, PC 10.5kw/143m, 38-25-20/75-08-23

### FLORIDA:

Clearwater: WXTB 97.9, PR>458m  
Daytona Bch: WIKD-LP 99.1, calls for new station  
Greenville: WYJC 90.3, PR<350w-V/66m, 30-26-13/83-37-18  
Jacksonville: WKQL 96.9, PA to Class C0  
Marco: WMKO 91.7, PR 6.9kw/113m  
Miami: WPYM 93.1, FC to rock "93 Rock"  
Miami Beach: WZTA 94.9, FC to Urban "Mega 94.9", CC to WMGE  
Milton: WEGS 91.7, PG>30kw/134m  
Orlando: WEBG 100.3, CC to WRUM, FC to Spanish "Rumba 100.3"  
Pensacola: WJLQ 100.7, PR>98.4kw/521m, 30-36-45/87-38-43  
Plantation Key: WFKZ 103.1, PR>100kw/141m  
Plantation Key: WCTH 100.3, PR>48m  
Sarasota: WCTQ 106.5, XR 27-32-42/82-34-27  
St. Catherine: WKFA 89.3, NW 100w/90m, 28-32-22/82-04-48  
St. Marks: WUJC 91.1, PR<9.5kw/90m, 30-08-32/83-54-58

Venice: WDDV 92.1, SC to "Lite FM", CC to WLTO

#### GEORGIA:

Atlanta: WZGC 92.9, PR 64kw/340m, 33-48-26/84-20-22  
Augusta: WLPE 91.7, PC>1.15kw/180m, 33-34-21/81-55-23  
Blackshear: WKUB 105.1, PG>106m, 31-10-54/82-22-51  
Blakely: WBBL 93.1, PC>45kw  
Brunswick: WWRR 100.7, PC>62kw/449m  
Coosa: WSRM 95.3, PG 6kw/22m, 34-11-51/85-21-21  
Macon: WBKG 89.9, PR>5.5kw  
Unadilla: WCOP-FM 99.9, CC to WQSA  
Willacoochee: WKAA 99.5, PC 43kw/230m, 31-10-18/83-21-57

#### HAWAII:

Hilo: KKBG 97.9, PR>51kw/-20m, 19-50-19/155-06-43  
Kahului: KNUI-FM 99.9, CC to KJKS

#### IDAHO:

Burley: KZDX 99.9, PC>27kw/747m  
Emmett: KJHY 101.9, CC to KDBI  
Homedale: KBNH 106.3, PG 100kw/313m, 43-37-15/117-12-35  
Preston: KKEX 96.7, PG>100kw  
Twin Falls: KEZJ 95.7, PG>100kw

#### ILLINOIS:

Carthage: WCEZ 93.9, NS 6kw/100m, 40-24-54/91-15-11  
Centralia: WRXX 95.3, PR 3.3kw/137m, 38-34-45/88-59-51  
Galva: WJRE 102.5, PR>6kw/89m, 41-13-37/89-56-08  
Milford: WJCZ 91.3, NW 25kw/27m, 40-35-07/87-57-47  
Mount Vernon: WAPQ 90.5, PC>1.25kw/62m  
Okawville: WIBV 102.1, PR 9.7kw/160m, 38-21-53/89-20-58; CL from Mt. Vernon  
Vandalia: WKRV 107.1, PR>6kw

#### INDIANA:

Cicero: WJCY 91.5, NW 470w-V/59m, 40-11-53/86-07-44  
Crothersville: WOJC 89.7, PG<3.25kw-V/74m, 38-50-39/85-49-26  
Evansville: WJLT 105.3, FC to oldies "Oldies 105.3"  
Fort Wayne: WFWI 92.3, PG 2.2kw/166m, 41-06-39/85-11-44  
Fort Wayne: WLAB 88.3, PC 3.2kw  
Huntington: WXKE 102.9, PG>4.7kw  
Nappanee: WLRX 95.7, CC to WYPW, FC to rhythmic top 40 "Power 95.7"

#### IOWA:

Ames: KURE 89.3, PG>1kw/23m, 42-01-47/93-38-51; adds V  
Boone: KFGQ 99.3, CC to KFFF  
Fort Dodge: KEGR 89.5, PC<17kw  
Grinnell: KDIC 88.5, PG 100w/38m, 41-44-56/92-43-10

#### KANSAS:

Copeland: KYBD 98.1, CC to KSKZ  
Hugoton: KFXX 106.7, PG>50kw/75m  
Leoti: KSKZ 99.9, CC to KWKR  
Topeka: KTPK 106.9, FC to classic country "Country Legends 106.9"  
Winfield: KSOK 95.9, PC 15.2kw/128m, 37-04-32/96-56-13

#### KENTUCKY:

Bowling Green: WGGC 95.1, GA from Glasgow  
Campbellsville: WAPD 91.7, PC>2.323kw-V/66m  
Danville: WHIR 107.1, FC; sold to K-Love  
Erlanger: WIZF 101.1, PA from 100.9  
Pikeville: WDHR 93.1, PC 22kw/131m

#### LOUISIANA:

Ball: KHFX 105.5, CC to KBKK  
DeQuincy: KTSR 92.1, PC 13.5kw/137m, 30-13-24/93-18-36  
Kenner: WKZN 105.3, CC to WKBU, PC>96kw/306m  
Ruston: KAPI 88.3, PC>300w

#### MAINE:

Portland: WMGX 93.1, XG 43-41-17/70-15-27  
Skowhegan: WHQO 107.9, FC to Hot AC "Mix 107.9"

#### MARYLAND:

Annapolis: WHFS 99.1, CC to WZLL and then WLZL  
Catonsville: WXYV 105.7, CC to WHFS

#### MASSACHUSETTS:

Adams: new 98.9, GA class A

Brockton: WBOT 97.7, PR 2kw/173m, 42-12-42/71-06-51

Dudley: WNRC 95.1, CC to WXRБ

East Harwich: new 98.7, GA class A

Lynn: WFNX 101.7, PR>1.69kw/191m, 42-21-08/71-03-25

Williamstown: WCFM 91.9, PG<-255m, 42-42-38/73-12-06

Winchendon: WOQL 97.7, PC 6kw/100m, 42-47-24/72-09-06

#### MICHIGAN:

Charlotte: WJXQ 106.1, PA from Jackson

Dowagiac: WDOW 92.1, FC to religion; sold to WHME

103.1 Indiana

Freeland: WWZP 90.9, "NW 240w-V/65m, 43-28-55/84-04-23 (AFR)

Gaylord: WBLW 88.1, PC>226m, 45-10-12/84-45-04

Holton: WVIB 100.1, CC from WSHN-FM

Houghton: WMTU 91.9, PG>4.4kw-V/146m, 47-08-27/88-32-26

Hubbard Lake: WKHN 88.1, calls for new station

Jackson: WJKQ 88.5, PR>1kw-V/41m, 42-16-22/84-21-13

Jackson: WJCQ 89.7, PR>1kw/28m, 42-16-36/84-18-32

Lapeer: WQUS 103.1, PR<2.6kw/104m

Mackinaw City: WDQV 88.5, FC to classical; sold to WIAA

Sault Ste. Marie: WTHN 102.3, NW 22.5kw/105m, 46-29-10/84-13-49

Sault Ste. Marie: WSUE 101.3, PC>100kw

#### MINNESOTA:

Anoka: KQQL 107.9, PR>333m, 45-20-20/93-23-27

Northfield: WCAL 89.3, CC to KCMP

#### MISSISSIPPI:

Benton: WYAB 93.1, PR 6kw/100m, 32-41-03/90-15-10; CL from Yazoo City

Charleston: WTYG 95.7, PC>6kw

Coldwater: WVIM 95.3, PC 3.4kw/134m, 34-48-22/89-59-47

Greenville: WJIW 104.7, NW 31kw/189m, 33-28-10/90-50-30

Gulfport: WGCM 102.3, "PC>50kw/120m, 30-20-44/89-11-47

Prentiss: WCJU 104.9, PC 2.8kw/133m

Tchula: WGNG 106.3, PC 7.1kw/152m

Utica: WJXN 100.9, FC to K-Love

#### MISSOURI:

Clinton: KDKD 95.3, PC 14.5kw/132m

Lamar: KHST 101.7, PC>22kw

Lebanon: KJEL 103.7, PR>453m, 37-49-10/92-44-51

Mansfield: KTRI 95.9, PR>8.9kw/165m, 37-17-10/92-36-55

Stockton: KRLK 107.7, CC to KRWP

#### MONTANA:

Kalispell: KHBO 88.7, CC to KLKM

Missoula: KMSO 102.5, PC>21kw

#### NEVADA:

Gardnerville-Minden: KCMY 99.1, PR>500w/620m, 39-15-21/119-42-37

Logandale: KADD 93.5, PR>87kw-H/655m, 36-38-07/114-07-18; CL from Laughlin

Sun Valley/Reno: KWNZ 93.7, FC back to top 40 "Z93.7"

#### NEW HAMPSHIRE:

Belmont: WNHI 93.3, CC to WNHW

Campton: WVFM 105.7, PG>622m

Meredith: WBHG 101.5, CC to WWHO

Nashua: WEVS 88.3, PR>3.8kw-H/5kw-V/21m, 42-45-00/71-28-47

#### NEW JERSEY:

Beach Haven West: WVBH 88.3, NW 1w-H/100w-V/130m, 39-42-56/74-17-32

Long Branch: WWZY 107.1, PC<630w dismissed ROA

Ocean Acres: WBBO 98.5, FC to rock //WHTG 106.3

"GROCK"

Port Republic: WXXY 89.7, PC>760w/40m

Trenton: WTHK 94.5, CC to WPST, FC to CHR "94-5 PST"

Trenton: WPST 97.5, CC to WTHK, FC to classic rock

"97.5 The Hawk"

#### NEW MEXICO:

Los Alamos: KZNM 106.7, PR>52kw/551m, 35-46-49/106-31-37

Raton: KBKZ 96.5, PC>5.4kw

**NEW YORK:**

Arcade: WCOF 89.5, NW 1kw/181m, 42-27-41/78-18-26  
 Buffalo: WBUF 92.9, PG 76kw/195m, 42-57-13/78-52-36  
 Delhi: WDHI 100.3, PC>1.6kw  
 Elmira: WLVI 94.3, PC 800w/227m  
 Ellenville: WFKP 99.3, FC to AC "Lite 99.3"  
 Fulton: WBBS 104.7, PR>150m, 43-12-53/76-23-44  
 Malta: WNYQ 105.7, PR>7.8kw/177m, 42-47-09/73-37-43  
 from Queensbury  
 Norwich: WBKT 95.3, PG 470w/256m  
 Ossining: WDFH 90.3, PR>100w/137m  
 Peru: WXLU 88.1, PG>1kw/341m  
 Remsen: WUCL 93.5, CC to WOKR  
 Seneca Falls: WLLW 99.3, PC>5kw/109m, 42-59-38/76-51-59

**NORTH CAROLINA:**

Bath: WZPE 90.1, NW 680w/39m, 35-28-32/76-48-44  
 (WCPE, classical)  
 Beaufort: WXFR 88.3, NW 1kw/55m, 34-43-26/76-43-18  
 (AFR)  
 Franklin: WEZG 96.7, CC to WNCC-FM  
 Gaston: WYTT 97.9, CC to WTRG  
 Raleigh: WWMY 102.9, FC to oldies "Y102.9"  
 Richlands: WTTB 104.1, PA from 103.9, from class C3 to A; CL from Topsail Beach  
 Robbins: WLHC 103.1, NW 6kw/100m, 35-26-33/79-26-37  
 Rose Hill: WZUP 104.7, PR<18.2kw/76m, 35-15-31/77-36-33  
 Topsail Beach: WBNE 93.7, PA from class A, CL from Wrightsville Bch  
 Wrightsville Beach: WBNU 103.7, PA from class C3 to C2, CL from Shallotte

**NORTH DAKOTA:**

Fargo: KFNW 97.9, PR>484m, 47-02-25/97-11-41

**OHIO:**

Bucyrus: WOEL 92.7, PR>96m, 40-45-49/82-56-00  
 Cleveland: WOAL 104.1, PR<12kw  
 Georgetown: WAXZ 97.7, PR<3kw

**OKLAHOMA:**

Ada: NEW 91.3, NS 85kw/73m, 34-45-51/96-41-32 (AFR)  
 Bennington: KFYZ 98.1, "PG<3.5kw/64m, 34-02-40/96-01-10  
 Carnegie: KJCC 89.3, PR<55kw  
 Glenpool: KTSO 94.1, PC<211m, 36-07-52/96-04-13  
 Ketchum: KGND 107.5, CC to KOSN  
 Okla City: KTST 101.9, PG>479m, 35-35-52/97-29-22  
 Okla City: KRXO 107.7, PR>451m  
 Woodward: KWFX 106.3, PR>265m, 36-22-31/99-28-32  
 Woodward: KWDO 102.3, PR>100kw/265m, 36-22-31/99-28-32

**OREGON:**

Coos Bay: KJCH 90.9, PR<2.39kw-V/162m, 43-09-57/124-19-38  
 Cottage Grove: KCGR 100.5, PR>10.5kw/154m, 43-45-40/123-02-07  
 Klamath Falls: KAGO 99.5, PR>112m, 42-12-56/121-47-51  
 Medford: KLDZ 103.5, PC>146m, 42-17-13/123-00-15  
 Milton-Freewater: KHTO 97.9, PR 100kw/274m, 45-47-41/118-10-06  
 Ontario: KSRV 96.1, PG>47kw/815m, 43-45-18/116-05-51  
 Portland: KINK 101.9, PR>96kw/502m, 45-30-58/122-43-59  
 Salem: KAJC 90.9, NW 560w/39m, 44-45-33/123-13-34  
 (CSN religious)  
 Weston: KZZM 101.9, CC to KMMG

**PENNSYLVANIA:**

Burgettstown: WOGH 103.5, PC 19.5kw/247m  
 Greenville: WEXC 107.1, PC>100m, 41-22-50/80-24-48  
 Johnstown: WKYE 95.5, CC to WFGI  
 Johnstown: WMTZ 96.5, CC to WKYE  
 Mansfield: WNTE 89.5, PR 120w/-85m, 41-48-23/77-04-25  
 Media: WPLY 100.3, FC to rhythmic Top 40 "100.3 The Beat", CC to WPHI  
 Pittsburgh: WLTJ 92.9, PR<43kw/260m, 40-29-43/80-00-17  
 Renovo: KZYY 106.9, PC>800w/267m, 41-14-15/77-45-02, FC to rock "The Surge at 106.9"  
 Susquehanna: WCDW 100.5, CL granted from Conklin, NY  
 Waynesburg: WADB 103.1, PC>970w

**RHODE ISLAND:**

Middletown: WKKB 100.3, FC to Spanish hits "Latina 100.3"

**SOUTH CAROLINA:**

Bowman: WSPX 94.5, PC 3.5kw/132m  
 Clemson: WCCP 104.9, PG 4.6kw/113m  
 Cross Hill: WHZO 94.1, RE 6kw/100m, 34-11-59/82-00-58

**TENNESSEE:**

Atwood: WTKB 93.7, FC to contemporary Christian "dove"  
 Benton: WOCE 93.1, PC 5kw/109m, 35-05-40/84-53-45  
 Bristol: WHCB 91.5, PR>4kw/715m  
 Lawrenceburg: WLLX 97.9, PR>42kw/161m, 35-16-56/87-06-18  
 McKinnon: WTPR 101.7, QR from 101.5, 1.8kw  
 Oak Ridge: WNFZ 94.3, PR>8.8kw/166m, 35-53-10/84-08-11  
 Ripley: WAUV 89.7, PR>5.3kw/120m, 35-46-31/89-28-18

**TEXAS:**

Amarillo: KXGL 100.9, PC>398m, 35-18-53/101-50-47  
 Amarillo: KXLV 89.1, PR>27.5kw  
 Bastrop: KMHF 88.5, CC to KHIB  
 Bay City: KMKS 102.5, PG>100kw/142m  
 Beaumont: KQOK 107.9, PR 90kw/596m, 30-01-01/94-32-47  
 Borger: KAVO 91.5, CC to KAXH  
 Bridgeport: KBOC 98.3, PG>40kw/620m, 33-26-13/97-29-05  
 Conroe: KAXF 88.3, CC to KAFR  
 Krum: KNOR 93.7, PR>100kw/450m, 33-31-38/97-24-54  
 Levelland: KLVT 105.3, QC from 105.5, 25kw  
 Lufkin: KUEZ 100.1, FC to AC "Y100"  
 Mason: KNAF 105.7, NW 9.1kw/164m, 30-21-49/98-54-47  
 Mont Belvieu: KRWP 97.5, PA from Beaumont  
 Munster: KZZA 106.7, SC to "Casa 106.7", FC to Hurban format, similar to KLOL  
 Odessa: KBMM 89.5, PC>25kw  
 Pampa: KAXH 90.9, PC>7kw  
 Pecos: KKLY 97.3, CC to KIOL  
 Port Arthur: KTJM 98.5, PR>100kw/596m, 30-01-01/94-32-47  
 Sanger: KTDK 104.1, PR>6.15kw/192m, 33-28-47/97-03-22  
 Seguin: KSMG 105.3, PG>100kw/453m  
 Spearman: KRDF 98.3, returns to air  
 Thorndale: KJAZ 99.3, XR 30-29-23/97-17-56  
 Victoria: KEPG 100.9, PR>4.3kw/118m, 28-46-55/96-56-20

**UTAH:**

Brigham City: KJQN 100.7, CC to KEGH  
 Coalville: KPEB 103.1, CC to KJQN  
 South Jordan: KUUV 92.5, PR 500w/1198m, 40-39-35/112-12-05; QR from 92.1

**VERMONT:**

Addison: WXAL 93.7, PG 21kw/108m, 44-13-15/73-24-37  
 Grand Isle: WLFE 102.3, PA from class A to C3, CL from St. Albans

**VIRGINIA:**

Clarksville: WICE 98.3, CC to WLUS-FM, FC to country "US 98.3"  
 Colonial Heights: WKHK 95.3, PR>50kw/150m  
 Crewe: WKJS 104.7, CC to WPZZ  
 Poquoson: WKCK 106.1, FC to top 40 "The Zone @ 106.1", CC to WZNR  
 Powhatan: WBBT 107.3, PR 3.8kw/127m, 37-26-20/77-51-08  
 Richmond: WJMO 105.7, CC to WKJS  
 South Hampton: WHLF 95.3, PR<4kw/50m, 36-44-01/78-59-51

**WASHINGTON:**

Nile: KLRO 88.1, CC to KSBC  
 Seattle: KRQI 96.5, PR 49kw/696m, 47-30-17/121-58-03  
 Spokane: KDRK 93.7, PC>60kw/739m, 47-34-14/117-04-55  
 Spokane: KYWL 103.9, CC to KBBD-FM  
 Wilson Creek: KWLN 103.3, NW 25kw/74m, 47-16-40/119-00-00

**WEST VIRGINIA:**

Matewan: WVKM 106.7, FC to country "Kix 106"  
 New Martinsville: WXCR 92.3, PR>2.3kw

(FM News continues on page 18)

## 6 Meter/2 Meter Amateur DX



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First of all, thank you to all the Members who took time to send me positive comments on our inaugural VHF Ham DX column last month. This section is still a work in progress, so please keep the input coming.

This month, we continue with our basic introduction to the 6 meter “Magic Band.” Our second installment begins with section III, a roadmap to hopping onto 6 meters.

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### III. What Do I Need to Join the Fun?

Hopping onto the Magic Band of 50 Mhz is easy. With a little work and some very basic equipment, you, too, can be making contacts perhaps thousands of miles away.

#### A. Getting a License

Listening to 6 meters is open to anyone. The Amateur Radio Service, like practically all other RF-based technologies, is not private. If the idea of listening to obsessed guys like me exchanging calls and grid squares is at all interesting, monitor anytime. But, if you want to join in on the fun and transmit, the FCC requires a license.

The good news for the putative 6 meter operator is that licensure is easy. The 50 Mhz band is open to all amateur operators, except for the few Novice Class licensees still holding tickets since the FCC ceased testing for Novice. In the current license scheme, the Technician license, the most basic entry level permit, allows full access to 6 meters with full legal limit of output power, a whopping (and unnecessary) 1500 watts.

The exam for the Technician license is not particularly rigorous. Examinees must only pass a 35-word multiple choice test. And here is the good part – you can study the entire pool of roughly 400 possible questions in advance! Several locations on the Internet have the entire pool, and there are several fine books that don’t just list those questions and answers, but include background and explanations of the correct answer choices.

The Technician exam covers only basic electronics, general theory, and amateur operating practices. The Morse code test is NOT required for a Technician license. My background in TV/FM DX prepared me well for the exam. With just a few hours of study even I – with practically no electronic background – passed with a 100%. I cannot imagine anyone who regularly reads the VUD having any real trouble passing the test.

A good starting place to learning more about licensure is the American Radio Relay League website, [www.arrl.org](http://www.arrl.org).

#### B. What Sort of Equipment Do I Need?

Ham radio can be an expensive hobby. But, luckily, it does not need to be. As with many hobbies, one can spend a little or a lot, depending on budget and desire

Obviously, to send and receive on 6m, or any other band for that matter, you are going to need a transceiver. The potential operator has a myriad of choices from the most basic models to modern multi-feature radios that do nearly everything for you but mail the QSL cards.

For reasons I do not fully understand, 6 meter radios tend to be expensive, even on the used market. But, affordable radios do exist, if you know where to look. Perhaps my favorite 6 meter-only single sideband voice radio is the 9406, built by MFJ, a Mississippi company specializing in ham radio accessories. I bought one of these tiny radios for a trip to Costa Rica, and really got to like it. While the 9406 is only rated at 10 watts, and often actually delivers a few watts less than that, it is a little wonder. Generally, if I can hear a station on my MFJ, I can work it. 7 or 8 watts goes a lot further than one might think. Further, the receiver is excellent. The 9406 also only draws a couple of amps DC. This come in very handy on the go, as you can power the radio from a nearly endless list of supplies. Retail on the MFJ 9406 is \$270, but they can be found much cheaper. I have seen used units for just over \$100. A CB manufacturer called Ranger also makes a 6 meter-only radio. The Ranger 5054 is a 25-watt all-mode radio which retails for around \$300. I bought one, and simply was not impressed with it. I much prefer the 9406.

I am finding more and more 6 meter operators using one of the super-small all-band all-mode rigs like the Yaesu FT897/857 or the Icom 706. These are fun radios. They are small -- just a few pounds -- and easily portable. And, they can pack a wallop. On 6m, these radios give you a full 100 watts, 100 watts on the HF bands, and varying power levels on 2 meters (144 Mhz) and 70cm (440 Mhz). Expect to spend \$700 or \$800 dollars new if you shop. While they are many uses for these radios, I wouldn't recommend them for a primary 6 meter rig. When you attempt to cram so much into a small box, there are trade-offs. With these radios, most complaints are about the receivers; they just don't have the ears for hard-core 6m work. But, for the money, you get a lot of bang for your ham radio dollar.

I have also had nice luck with my Yaesu FT-817 QRP (low-power radio) on 6m. This little HF-through-UHF wonder is only 5 watts, but, like the MFJ 9406, works much better than you might think. I had a ball with my 817 on Grand Cayman with just a wire antenna on my balcony. But, as fine as this 2-pounder might be, I would not recommend this for a primary rig, especially for the beginner.

Most operators who are serious 6 meter fans are using one of the new generation of multi-mode HF/6m radios built for home use. Frequent favorites include the Icom 756 (now in its third version), the Icom 746, Kenwood 2000, Yaesu FT 1000, etc. These radios can be a bit pricey, but are fun to use. Expect to pay \$2000-\$3000 for a radio in this class. Icom recently sent the new 8900 to market. Known around the world as being the last word in radios, this 200-watt machine is a cool \$10,000+, getting well out of reach of most. Well, maybe one day...

### C. Do I Need a Big Antenna?

In short, no. Big, high-gain masses of aluminum are great and will doubtless help, but more simple antennas will suffice.

Antenna choices on 6 meters are virtually limitless. One can spend big bucks on a multi-element yagi, or make a simple dipole out of 9 feet of wire. Budget, desire, and space (and often the aesthetic tastes of one's spouse) are the main determining factors. Obviously, the beam will work better, but big fun can be had with low budget homemade antennas. Simply said, any antenna is better than no antenna. Get something in the air.

### D. QSL Cards.

Even for the occasional user of the 6 meter band, having some QSL cards on hand is very important. Since 6 meter fans chase grid squares, operators in common states like California, Texas, and New York will often get requests for cards as they may be sitting in a needed grid. You don't have to be living in Delaware or Rhode Island for folks to want your QSL!

QSL cards can be very simple or as ornate as you like. All that is required is your call and his call, basic location info, and description of the contact like time, date, etc. The cards need not be expensive. More and more, people are computer generating cards and simply printing as needed. Many QSL cards, however, are still made by printing companies specializing in QSLs. Again, those cards come in simple and fancy varieties. Card design is only limited by your imagination.



## E. Patience

Any DXer who has stared at hours of TV snow, or stayed up all night to catch a rare tropo station knows that one doesn't just flip on the TV and watch TV 500 miles out. The same goes for 6m DXing. Days, weeks, or in the extreme, months may go by without significant activity on 6. But, there are clues to impending openings. Those will be discussed in Section IV.

### End of Part II

#### Loggings

Well, welcome to the driest time of the year for 6m DX. Now that the Winter Es Season has ended, we're just cooling our heels until Summer, unless something very unusual happens.

I have seen a few scattered E openings in January, and there were a couple of very short openings in early February. The openings for me were either unremarkable, or short in duration while I was out.

We do welcome a new contributor, Bill Smith, near Boston. Bill and I have worked one another several times, and he has a very nice looking QSL card. Bill was lucky enough to snap a handful of new grids during the brief Winter Es Season.

---

Bill Smith, WA1NYV, 56 Locust Street, Douglas, MA 01516

---

10 Dec '04 (Es)		2148 K8EB	EN73
		2203 WB8YZN	EN82
0016 KI4HHF	EL98	2206 WA8CDU	EN72
0019 KK4QJ	EM81	2206 KC9BNJ	EN61
0022 KF4GMH	EL88	2207 KB8DBJ	EN82
0031 KE4KVV/m	EM80	2209 K8KS	EN82
		2210 W8ARY	EN91
11 Dec '04 (Es)		2212 WA9JWL	EN70
		2214 KC9BGK	EN61
1351 KD4BWQ	EM60	2214 KC8ZIZ	EN81
1412 K4EPS	EL86	2215 N9SF	EM69
1416 KC5QWG	EL98	2216 WA9DBJ	EN52
		2217 K9AB	EN62
12 Dec '04 (Es)		2219 K8MJH	EM79
		2222 K0MVJ	EN36
0049 WD5HFI	EM50	2235 KB4AMA	EM67
0200 WB4WXE	EM74		
0202 K5CN	EM44	21 Dec '04 (Es)	
0203 W4CMQ	EM74		
		2256 K4DD	EM60
17 Dec '04 (Es)		2306 K4PTN	EM56
		2308 KE4OYS	EM63
2037 K4LRX	EM67	2309 N4EKG	EM73
2040 AD5D	EM46		
2040 W4OM	EM72	24 Dec '04 (Es)	
2041 K9OIM	EM56		
2043 W4NE	EM84	0021 K0RPT	EN10
2116 KI4CGM	EM86	0023 KC0PUN	EN11
2118 K3KO	FM06		
2119 KG4PSR	EM65	26 Dec '04 (Es)	
2123 W4AMP	EM73		
2124 K4AL	EM66	1725 W0GHZ	EN34
2319 K4RPA	EM75	2054 KC9ECI	EN44
2322 K2SC	EM64	2056 K0MN	EN43
		2112 KC8VUK	EN73
20 Dec '04 (Es)		2120 K9APW	EN53
		2126 W0ANH	<b><u>EN47</u></b>

2131 K9VS EN53  
 2140 KC8YZA **EN65**  
 2151 KC0AKJ EN32  
 2156 W9NJY EN53  
 2157 KC9CMT EN62  
 2225 KA0PQW EN33  
 2255 KG9Z EN50  
 2257 N8QOZ **EN63**  
 2300 N0VQA **EN24**  
 2318 K9OT EN42

27 Dec '04 (Es)

0003 K8AO EN65  
 0007 KC0TGH EN34  
 0029 WA9ENA EN42

29 Dec '04 (Es)

1644 N4CQW EM86  
 1658 WB4NBE EM85  
 1915 K5BOC EM25  
 2005 W5VHF EM25  
 2143 W5TDN EM22  
 2353 K0CIY EM17

2359 N5OSK EM25

30 Dec '04 (Es)

0005 KD5KPJ/m EM25  
 0020 N0YXE EM28  
 0031 KD5JXU EM26  
 0042 KC0LWA EM27  
 0044 K7TOP DM43

Double-Hop to AZ

4 Jan '05 (Es)

2004 N4DB EN80  
 2330 N9NJY EM58  
 2330 W9THD EN71  
 2337 N9NS EM69  
 2340 KB9WAR EM68  
 2354 W0DAA EM48

7 Jan '05 (Aurora)

2343 VE2XK **FN07**  
 2347 K0AWU EN37

Nothing else worked in January. I did not listen during the Contest [in January].

Rig: Icom 746 Pro/TE Systems amp @ 300w. Antenna: 5-element Cushcraft at 30'.

---

We still need your contributions for this column. In future months, we'll feature your loggings, and QSL cards, as space permits. Morris Sorenson sent me a nice selection of cards he got by listening to 6m over the past few years. Be looking for some of those soon.

-PB

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### FM NEWS CONTINUES FROM PAGE 14

#### **WISCONSIN:**

**Birnamwood:** WYNW 92.9, PR>6kw/100m, 44-59-57/89-22-24

**Nekoosa:** WMMA 93.9, "PR>18kw/112m

**Rhinelander:** WRHN 100.1, PR<89m, 45-37-42/89-23-38

**Richland Center:** WRCO 100.9, PR>23kw/105m

**Three Lakes:** WLSL 93.7, PC>100kw/124m

#### **WYOMING:**

**Cheyenne:** KLEN 106.3, PR<6kw/99m, 41-03-09/104-49-55

**Glenrock:** KGRK 98.3, calls for new station

Some news and notes:

- I am particularly angered by the flip of WPLY/100.3 Media to R&B from alternative. I am an alternative music listener, and they were one of the

better alternative stations in the country. In fact, when I went to Philly this summer, that's all I listened to (mixed in with a little Q102 and YSP). It's a sad day for many listeners who are shut out by the loss of this unique station, and just shows what big media is doing to our country today.

- New Norfolk move-in WKCK 106.1 fills in the top 40 gap in the market (formerly held by WNVZ/Z104) by going top 40 as "The Zone".
- Format flips in Miami as WPYM 93.1 picks up the former Rock format from heritage rocker WZTA, which goes Spanish/English rhythmic, in line with CC's progression across the country.

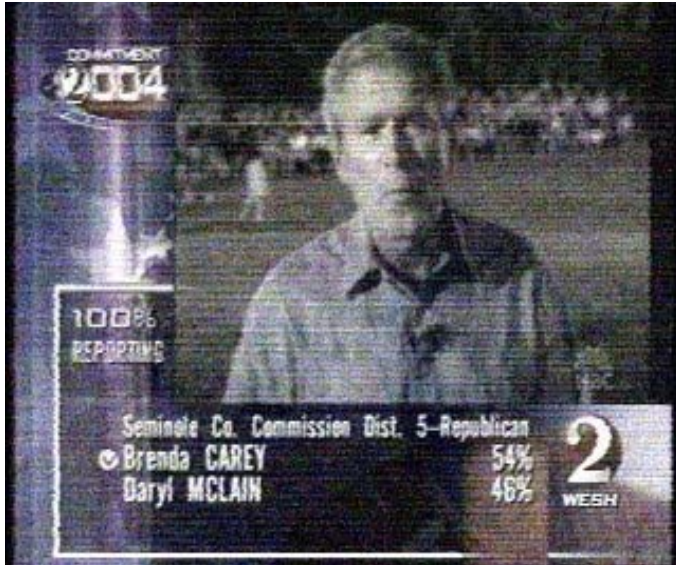
More next month. Have a great March.

-Adam

March 2005

This month we welcome another new contributor, Joe Veldhuis of Grand Haven, MI. Thanks, Joe!

Equipment: Delhi VIP-307SR VHF/FM antenna @ 15 feet, Channel Master 4228 UHF antenna @ 30 feet, pchDTV HD-2000 TV tuner.



WESH-2 Daytona Beach, FL  
1008 mi Es seen 8/31/04



KPTH-44 Sioux City, IA  
513 mi Tr seen 10/12/04

Watch for more from Joe in the coming months. And here are some of my photos from last year, including some short-hop Es:

Equipment:

1992 Zenith "Sentry 2" 13" color TV, Channel Master 4228A screened 8-bay w/CM Spartan 3 #0071 preamp and RG-11 coax for UHF, Channel Master 1114 Crossfire w/CM #0040 preamp, MFC trap for 88.5 MHz, and RG-6 for VHF, both @20 ft. AGL (in attic). Hauppauge WinTV-D card for all DTV reception and screen captures.



KOAA-5 Pueblo, CO  
940 mi Es seen 5/22/04  
@1144 CT



KWAB-4 Big Spring, TX  
620 mi Es seen 5/26/04  
@1831 CT  
"s-KWES-9 Odessa"



WTAE-4 Pittsburgh, PA  
930 mi Es seen 5/28/04  
@1801 CT



WBTB-TV Charlotte, NC  
680 mi Es seen 5/28/04  
@1656 CT



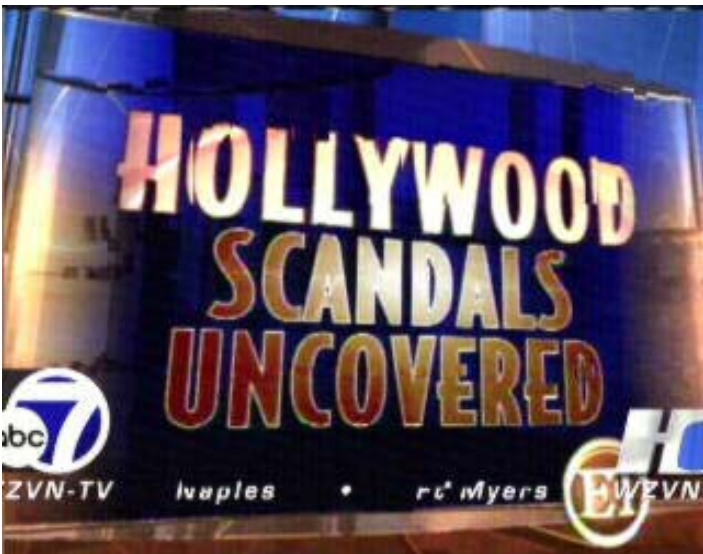
KEYE-TV Austin, TX  
395 mi Tr seen 5/29/04  
@0051 CT



KFOR-TV Oklahoma City, OK  
505 mi Es seen 6/19/04  
@1044 CT



WTOG-TV St. Petersburg, FL  
550 mi Tr seen 11/28/04  
@2254 CT



WZVN-TV Naples, FL  
645 mi Tr seen 11/28/04  
@2307 CT



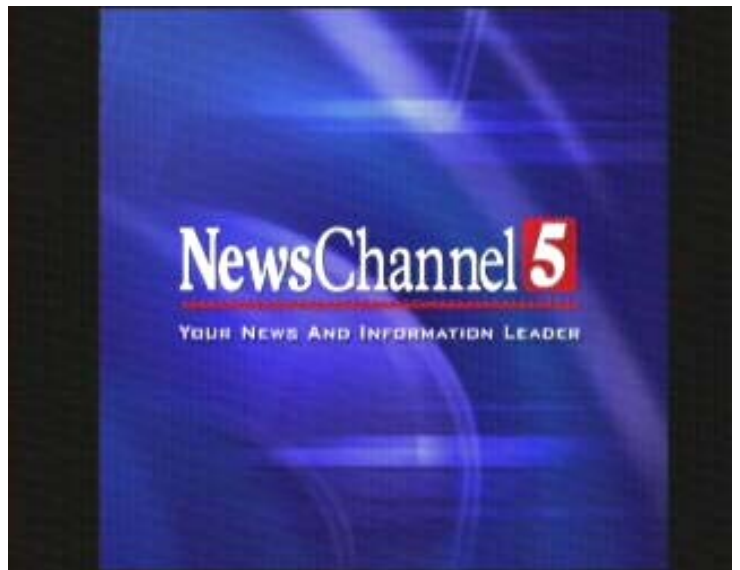
WKMG-DT-58-2 Orlando, FL  
 600 mi Tr seen 11/28/04  
 @2315 CT  
*"quite a defeat for the "Raptors!" -jk*

WUVG-DT-48 Athens, GA  
 515 mi Tr seen 1/9/05  
 @0123 CT



WFTS-DT-29 Tampa, FL  
 550 mi Tr seen 11/28/04  
 @2320 CT

WEDU-DT-54 Tampa, FL  
 550 mi Tr seen 11/28/04  
 @2312 CT

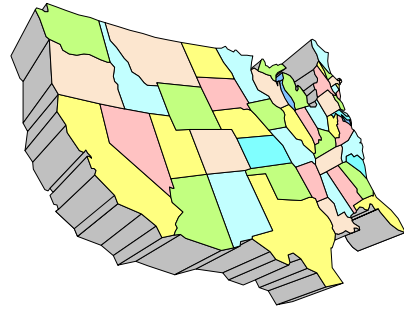


WSB-DT-39 Atlanta, GA  
 455 mi Tr seen 1/9/05  
 @0150 CT

WTVF-DT-56 Nashville, TN  
 465 mi Tr seen 1/9/05  
 @0232 CT

# WESTERN TV DX

**VICTOR FRANK**  
**12450 SKYLINE BLVD.**  
**WOODSIDE, CA 94062-4554**  
**Victor.frank@sri.com**



**Dennis Park Smith**, 3605 San Remo Drive, Santa Barbara, CA 931105-2523 (805)687-7803

This report is for January 2005. There wasn't much coastal tropo (to San Diego/Tijuana, up to 200 mi—320 km), typical of this time of year, but some years, there isn't any at all, so this time at least there was some on occasion.

Jan 1-12: None (Rainy & windy since Dec 26 eve)  
 Jan 13: Very poor  
 Jan 14-16: Poor  
 Jan 17-19 am: None  
 Jan 19 am-20 aft: Out of town Wasco/Bakersfield  
 Jan 20 aft-23: Variably poor to fair  
 Jan 24: Good  
 Jan 25-31: None (Unsettled; some rain 25-27, Some wind 28-29)

## WASCO REPORT

On another quick trip to Wasco, Jan. 19 morning to Jan. 20 about noon, I found a few signals and some clarifications from the previous quick trip of Nov. 26-27. The often winter "Tule-fog tropo" condition was there, though producing only somewhat, with just the usual often-seen Modesto/Stockton/Sacramento stations this time (up to 240 miles) of only fair strength, and all tropo signals except KCRA-3, KXTV-10, KOVR-13, and KTXL-40 Sacramento/Stockton (215 mi) were covered over all of the time by closer CCI or DTV.

The problem noted on Nov. 26-27 with two nearby LPTV stations on the same channel, KVVG-LP 31 (Almavision) Porterville (possibly 40 mi) and nearby new Ch. 31 (Telefutura) Bakersfield (poss. 35 mi) is resolved, as seen Jan. 19-20, as KVVG has moved to Ch. 54 (my first Ch. 54 seen in Wasco). And, the Bakersfield call letters were noted this time: Ch. 31 (along with its former Ch. 523 seen Nov. 26-27 in process of changing channels, no off) is KBTF-LP, and simulcast Ch. 4 Bakersfield is KTFB-LP (a mind-twister dual ID).

There was a new LPTV signal seen in Wasco Jan 19-20 on ch. 24, evidently Bakersfield (may be 45 mi) but I don't think I can count it officially, as it was seen only as poor strength CCI under KSEE-24 Fresno (85 mi). Leaving Wasco Jan. 20, I drove through Bakersfield, noting there on battery TV ch. 24 3ABN network (formerly in Bakersfield on ch 25, then on 8, and now on 24).

Best of DX to All, Dennis

**William Draeb**, 1304 Ellis St., Kewaunee, WI 54216-1802

Equipment: 1994 Sylvania 25" TV; Rohn 25G 40' tower; ch 2026, Y713, KU420(screened) antennas. CMA-Ub, CMA-HB; preamps; TR44 rotor; etc.

## January 2005

1 Es	1130 unID	2+	
20 Es	0459 unID	2-	West
	0505 unID	3 & 4	West
	0540 KOTA	3	
	1825 unID	2 - 4	WSW
		3	Educational
	1858 KENW	3	
	KACVt	2	
	KAMRt	4	
30 tr	1935 WBIJ	4	Fair-Good

Not much DX in January. Just a little off-season E-skip. Tropo was virtually non-existent due to unsettled weather and above-normal snowfall.

**Jeff Kruszka**, 5024 S. Braxton Ave., Baton Rouge, LA 70817

## December 2004

28 Es	1738 unid	3 CBS news		CT
29 Es	1531 KPRY	4 SD		1080
	1540 KBME	3 ND		1240
	1623 KFYZ	5 ND		1240

## January 2005

8 tr	1130 Little Rock	16, 38, 42		305
	1134 KNWA	51 AR		435
	1137 KWBM	31 AR		410
	2125 KTHV	11 AR		305
	2216 WATL	36 GA		455
	2218 WJSP	28 GA		390
	WHDF	15 AL		360
	2227 WHNT	19 AL		400
	2317 WJSU	40 AL	"ABC 33"	385
	2329 WUVG	34 GA		515
	2341 WHSG	63 GA	TBN	490
	2348 WACH	57 SC		640
	2358 WPGA	58 GA		460
9 tr	0000 WSWS	66 AL		370
	WRJM	67 AL		320
	0012 WTBS	17 GA		455
	0016 WXTX	54 GA		390
	0027 WRLK	35 SC		640
	0030 WXIA	11 GA		455
	0045 <u>WTVM-DT</u>	47 GA	Note 1	<u>390</u>
	0053 <u>WVTM-DT</u>	52 AL		<u>335</u>
	0054 <u>WPXA-DT</u>	51 GA		<u>435</u>
	0111 WDSI	61 TN		465
	0114 <u>WBIQ-DT</u>	53 AL		<u>330</u>
	0118 WGNM	64 GA		470
	0121 <u>WUVG-DT</u>	48 GA		<u>515</u>
	0125 WATC	57 GA		455

	0133	WUPA	69	GA	455
	0135	WGCL	46	GA	455
	0141	WMGT	41	GA	470
	0142	<u>WSB-DT</u>	39	GA	<u>455</u>
	0154	WPXXt	50	TN	Worship
	0204	WNAB	58	TN	465
	0209	WDCO	29	GA	480
	0213	WFLI	53	TN	485
	0227	<u>WTVF-DT</u>	56	TN	<u>465</u>
	0239	WAFF	48	AL	400
	0259	<u>WPSD-DT</u>	32	KY	<u>480</u>
	2150	WTJP	60	AL	390
	2311	WATC	57	GA	455
	2315	WATL	36	GA	455
	2341	WHSG	63	GA	490
24 tr	2321	<u>KLTL-DT</u>	20	LA	<u>125</u>

Note 1 – Their PSIP info had a typo – it read, "WTMV Digital television"! (This used to be the calls of an analog station in Lakeland, FL, but is now an FM in Youngsville, PA.)

A very nice opening to a wide area the night of Jan. 8<sup>th</sup>. Unfortunately, these openings continue to be fewer and far between than in previous years. E-skip was also not very plentiful this off-season.

**Dave Pomeroy**, 2321 SE Libra Ct.  
Topeka, Kansas 66605-3505

Equipment: Samsung 26" HDTV with integrated tuner Win TV-D tuner card in PC ChannelMaster 6-foot parabolic UHF antenna @ 50 feet

December 2004

	6 Tr	1000	KOZJ-DT	25	KFJX-14	Joplin(MO)	Pittsburg(KS)
	8	0656	WICS-20			Springfield, IL	
		Es	0930	WPSX-3		University Park, PA	
	9	1900	CFRN-3*			Edmonton, AB	
			2020	UNID-3		Spanish "5* in a circle--	
						Televisa SW	
	30 Tr	2330	UNID-57		"WB57"		
			UNID-DT	52	"Program 1"		
		2340	DTV	21, 26, 45	Wichita, KS		
			KBDK-14		Hoisington, KS		
		2350	KAAS-DT	17	Salina, KS		
		2355	KDSM-DT	16	Des Moines, IA		
					(past KTAJ-16)		
31	0000	KCCI-DT	31		Des Moines, IA		
	0030	KPWB-23			Ames, IA		
			(KTWU-DT	23	off)		
		WHO-DT	19		Des Moines, IA		
	0100	KSBI-DT	51		Oklahoma City, OK		
	0110	K46AH-46			Medford, OK	KETA-13	
	0410	K30AE-30			Alva, OK	KETA-30	
			UNID-51		Azteca America		
	0730	WGEM-DT	54		Quincy, IL		
			Program 1		(WGEM-DT)		
			Program 2		(CGEM-DT)		
	0735	KOPX-DT	50		KWTV-DT	39	
					Oklahoma City, OK		
			UNID-69		Spanish		
		KJRH-DT	56		KOKI-DT	22	Tulsa, OK
0800		KXOC-54*			Oklahoma City, OK		
		KSBI.COM			//with KBSI-52 at times		
			UNID-21		HSN		
			UNID-DT	33	NBC "Program 1"		
0900		KOCB-DT	33		KSBI-52		
					Oklahoma City, OK		
1115		KOKH-DT	24		Oklahoma City, OK		

Program 1 (HD KOKH Digital TV)  
Program 2 (Local Weather Condx)

KUJH-CA 14 in Lawrence, Kansas has not been seen for a couple of months. That has opened up channel 14, but nothing significant yet. KUJH-14 is licensed to The University of Kansas and is used as a student station.

Not much to watch so I really don't miss it. The Super Bowl was not available in Topeka on HD. WDAF-DT 34 in Kansas City is very low power and doesn't even cover the whole KC metropolitan area. Local Fox station KTLJ-43 is low power with no digital assignment. Same problem with the World Series.

**Danny Oglethorpe**, P.O. Box 8025. Shreveport, LA 71148-0025

E-mail: doglethorpe@yahoo.com

Mexico TV ID website:

<http://www.geocities.com/doglethorpe/>

Es: Only the most-productive and/or most interesting skip is reported.

Tropo: No relogs under 400 miles; no LPTV relogs under 200 miles.

Time listed for Mexicans is ID time.

Mexico IDs are classified by number of lines of text:

1-line to 4-line Mexico ID location on screen:

UR=upper right, LR=lower right, UL=upper left,

LL=lower left, UC=upper center, LC=lower center,

Top=across top

NOVEMBER 2004 CT

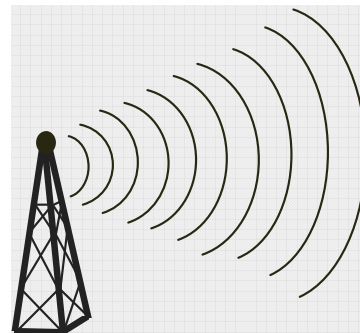
25Es	1710	Thunder Bay	ON	2, 4	"Tb"
		KTWO	2	WY	"K2"
		WBAY	2	WI	

DECEMBER 2004 CT

8 Es	0745	Miami	2, 4		
	1520	WESH	2	FL	
	1545	KTWO	2	WY	
	1615	Denver	2, 4		
		KCWC	4	WY	"WYPTV"
	1620	KGWN	5	WY	KGWN and "CBS5" IDs
	1655	KGWL	5	WY	KGWC-14 and "UPN26" IDs
	1805	WBAY	2	WI	
9 Es	1415	XHFM	2	VER	Note # 1
	1720	WJBK	2	MI	
	1725	WMAR	2	MD	
	1805	WUND	2	NC	"UNCTV"
	1810	WFMY	2	NC	
	1830	XHQ	2	SIN	XHQ-3 circle-3 logo
	1845	XHCH	2	CHIH	"TV Azteca Chihuahua" ID
	1930	WESH	2	FL	Second time of time
	1931	XEFB	2	NL	Christmas ID
	1955	KASA	2	NM	
	1959	Flagstaff	2, 4		
11 Es	0705	WMAR	2	MD	
		WBAY	2	WI	
	0753	WCBS	2	NY	
	0805	CHFD	2	ON	Pre-signon ID card
	2020	WPBT	2	FL	
28 Es	1650	KWGN	2	CO	"WB2"; New "2" on logo
	1700	KOAA	5	CO	
	1715	KTCA	2	MN	
		KXJB	4	NC	
29 Es	1327	Cuba	2		TP

(Western TV DX continues on page 11)

# Northern FM DX



Keith McGinnis  
6 Ritter Road, Hingham, MA 02043  
longwave@comcast.net 781-875-1944

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For Dxers in the following states: CT IA ID IL IN MA ME MI MN MT ND NE NH NJ NY OH OR  
PA RI SD VT WA WI WY and all of Canada. Please submit by the 10<sup>th</sup> of each month. If possible  
please submit in the formats shown Below.

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**EDITORS NOTE: PLEASE NOTE THAT ANY TYPEWRITTEN OR HANDWRITTEN REPORTS  
MIGHT BE DELAYED TILL A LATER ISSUE AS TIME PERMITS. ALSO PLEASE KEEP  
REPORTS AS RECENT AS POSSIBLE (THE LAST 3 MONTHS SHOULD WORK FINE). THANK  
YOU.**

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## Mike Bugaj – 69 Sherman Road – Enfield, CT 06082

Equipment: Carver TX-11, Onkyo T450 RDS, APS-13 on roof, Conrad RDS Manager and  
computer software. New are underlined.

### Nov 2004

7<sup>th</sup> Au  
2217 WOMC 104.3 MI Detroit  
2228 WTSS 102.5 NY Buffalo

### Dec 2004

25<sup>th</sup> Es  
1725 WHSA 89.9 WI Brule, RDS PS=W HSA  
1726 WSCD 92.9 MN Duluth, classical  
1726 WRJO 94.5 WI Eagle River, calls, oldies  
1730 WNCY 100.3 WI Neenah, Y-100  
williamsauto.com,  
1800 KRUE 92.1 WI Wauseca, calls

29<sup>th</sup> Es  
1728 WAFR 88.3 MS Jackson RDS  
PI=553B, PS=WAFR  
1730 WMAO 90.9 MS Greenwood, PS=MPB,  
PI=75EB  
1733 WSYE 93.3 MS Houston, PI code 86A4  
1735 Unid 97.7 "The Beach 97.7", oldies  
1739 KRVV 100.1 LA Bastrop, rap PI=3F1B  
1743 WMBZ 94.1 TN Germantown, RDS PS=  
748B, PS= 94.1WMBZ  
1747 Unid 98.7, "The Q", Hillary Duff, etc  
1750 KBSA 90.9 AR El Dorado, Red River  
Radio, NPR  
1914 KBEZ 92.9 OK Tulsa, PI=1325  
1920 KTSO 94.1 OK Okmulgee, Bob Hurley  
Ford

1926 Unid 90.9 area code 405, Sally calling  
from OKC, contemporary Christian(?)

### JAN 2005

3<sup>rd</sup> TR  
0825 WJNY 90.9 NY Watertown, classical and  
weather @ 0825  
0832 WBZA 98.9 NY Rochester the Buzz  
0841 CBL 94.1 ON Toronto, CBC Radio2,  
Music & Co.  
0855 CHUM 104.5 ON Toronto, Chum-FM  
0856 CILQ 107.1 ON Toronto cl rock Q107  
0910 CHYM 96.7 ON Kitchener Chime FM Lite  
Rock  
0913 CKPC 92.1 ON Brantford FM92.1 QEW  
traffic  
0916 WBUF 92.9 NY Buffalo, 92.9 WBUF,  
Stern and Buf's tx station  
0917 WNED 94.5 NY Buffalo, classical  
0919 WFXP 95.1 NY Honeye Falls, the Fox  
Toronto also in from 1003-1140.  
You gotta love winter tropo.

### FEB 2005

7<sup>th</sup> TR  
0745 WYFI 99.7, WOLC 102.5  
0748 WMGV 103.3 NC Newport soft rock  
0807 WKOO 98.7 NC Jacksonville, cool98.7  
0808 WWOC 94.5 NC Hatteras, lousy audio  
Some Norfolk also noted plus 102.5 the Shark  
from NC.





# SATELLITE NEWS

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February was another slow month with a few changes. - Here they are:-

**AMC 10** (was Satcom C4) MTV East on XPDR 17 remains there. On **Galaxy 1R** delete USA West on XPDR 21. On **Intelsat Americas** 13 XPDR 602 - add VTV - Varsity TV. Delete all Fox Sports Channels on **AMC 1** channels 400 through 410. The Dallas Sports Network has moved to channel 400 with color bars. On **Galaxy 4R** - add Speed to channel 430.

Here are a few new satellite designations -

139 W - AMC8  
137 W - AMC 7  
135 W - AMC 10  
133 W - Galaxy 1R  
131 W - AMC 11  
129 W - Intelsat Americas 7  
127 W - Galaxy 13 and Horizons 1  
125 W - Galaxy 12  
123 W - Galaxy 10R  
121 W - Intelsat Americas 13  
119 W -Anik E2  
117 W - AMC 15  
116 W - SatMex 5  
113 W - Solidaridad 2  
111 W - Anik F2  
107 W - Anik F1  
105 W - AMC 2  
103 W - AMC 1

101 W - AMC 4  
99 W - Galaxy 4R  
97 W -Intelsat Americas 5  
95 W - Galaxy 3  
93 W - Intelsat Americas 6  
91 W - Galaxy 11/Nimiq 1 and 3  
87 W - AMC 3  
85 W - AMC 9 and AMC 16  
82 W - Nimiq 2  
79 W - AMC 5  
74 W - SBS 6  
72 W - AMC 6  
61 W - Rainbow 1  
58 West - PanAmSat 9  
55 W - Intelsat 805  
53 W - Intelsat 707  
50 W - Intelsat 705  
45 W - PanAmSat 1R  
43 W - PanAmSat 3R and 6B  
40.5 - NSS 806

There are a few more further west that can be viewed from this location, but contain very little beamed to this area and are not capable of being seen on the west coast.

That's all for this month - see you in 30 and good DX.

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## THIS MONTHS COVER

Our cover this month belongs to Pirate Radio KELS-LP 104.7 in Greeley, CO. This is not one of those bad LPFMs that serve as relayers or repeaters for other stations or networks. This is one of the good LPFMS...a real radio station with local DJs and local programming. And besides, Jim Thomas works there...so it can't be all bad.

So, make a mental note of this station because you're going to want to try for it when E skip season hits. And remember the captain's immortal words:



**YO HO, YO HO...A PIRATES LIFE FOR ME!**

# TELEVISION: THE TECHNOLOGY THAT CHANGED OUR LIVES

BOB COOPER  
PART SIX

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*The following material is from an in process book by Robert B Cooper who retains the copyright to this material. None of this may be reproduced in any form without the permission of the author; special permission for VUD to publish this 'draft version' is on record."*

RCA's 1947 effort was even less mature and RCA had to admit the quality of CBS color was superior. Between March 1947 and September 1949, CBS's Goldmark had made a few mathematical changes to his system and refined some of the color imaging systems. But it was still a mechanical color wheel spinning in front of a black and white screen, it was still incompatible with the growing universe of black and white receivers and it still flickered. The only real improvement had been compression of the information into a standard (VHF or UHF) 6 megacycle channel width which if nothing else at least made it compatible with the FCC's channel allocations policies. One might suppose that with the vast resources of RCA, in the interim 30 months RCA would have made significant progress with their own attempts to produce color. Unfortunately for RCA, this was not true. In fact, virtually no RCA time nor money had been expended on perfecting color in that period. All attention had been focused on UHF - which RCA saw as a new market for hundreds of new TV stations (to be hopefully equipped by RCA) and millions of new TV receivers (which of course RCA also planned to manufacture and sell). And it was not until Goldmark popped back into their vision with his medical field color TV cameras that RCA even thought about color broadcasting again.

RCA knew their 1947 design requiring four separate transmitters and 12 megacycle bandwidth was no longer a viable answer; indeed, it never was, according to Brown. When word got out that Goldmark believed he had created a new technique to compress medium definition color into a standard 6 megacycle channel, the RCA think tank went to work on the problem. It was early 1949 and progress (as Brown described it), "was leisurely until we were told the FCC would hold hearings in September to consider not only UHF but color again."

What is of note here is that RCA, contrary to what Eugene Lyons wrote in "David Sarnoff," was not active in further color research during the 1947 - 1949 30 month period. Lyons wrote, "The rival companies had about 2 - 1/2

years for further research on their respective technologies. CBS by their own admission curtailed research while RCA stepped up its work in this field."

Brown's "and a part of which I was" paints a different picture. He writes that after CBS conducted a brief display of their technology through Washington's WTOP for John Hopkins Medical School (Baltimore), he found that Clarence Hansell, in charge of research at the RCA Rocky Point, Long Island facility was developing a spectrum shrinking "time-division multiplex" system which might be adapted to the color TV problem. Brown wrote, "Since the time division multiplex composite signal takes far less bandwidth than would be needed by the individual signals side by side, the result is a helpful saving in the frequency spectrum."

What RCA needed, if they believed CBS would attract FCC attention with their slightly-modified-from 1947 field sequential system, was a break through in saving megacycles. The last project, which did so poorly before the Commission in 1947 and had not been updated in the interim, required 12 megacycles of spectrum space holding four separate carriers.

"Hansell agreed that time division multiplex might be used for transmitting the three signals (red, blue and green)."

Faced with an FCC dictum centered around a September (1949) hearing date, Brown noted, "an emergency meeting was held at RCA Laboratories attended by a large group including David Sarnoff. The atmosphere was gloomy and the mass opinion seemed to be that RCA could only appear as an interested observer except for offering our evidence concerning co-channel interference and the (proposed TV channel) allocation plan."

Brown continued: "The meeting was confusing and I do not recall the details but at some point I muttered loudly enough to be heard that we could have a color television signal on the air in Washington by September if we really wanted to do so. My rashness

resulted in my staggering from the meeting with the instructions to get cracking and with the authority to guide the technical program not only at RCA Laboratories but also in NBC and the receiver and transmitter divisions at RCA."

What came out of this very focused effort was the basis for today's NTSC color television system. It was a 16 hour per day, 6 or 7 day per week effort by first dozens and then hundreds of RCA engineers and technicians, drawn from essentially every division of the company. Unfortunately it was not destined to work very well (and often not at all) during the first two months of the FCC hearings.

While CBS was displaying a slightly modified standard TV set with a pregnant pouch protruding from the front left hand side panel, RCA's display receivers measured 6 feet high, 6 feet deep and 31 inches wide for a modest 12 and then 16 inch display. Moreover, as the system progressed, it grew and by late in November would also include a two cubic foot "addendum box."

What RCA needed was a single color kinescope (picture) tube. What they had in the fall of 1949 were three 16 inch tubes (which somehow had to be fitted in a vertical position inside the monster housing) and focused through an external set of lenses onto a frosted glass screen. Each of the electronic-primary colors (red, blue, green) actually had its own "TV set" and the combined outputs of the trio was what people saw on a projection glass screen. CBS sets could be placed on a coffee table; RCA's required flooring capable of taking a dead weight of up to a ton!

As Brown succinctly wrote, "We fully realized that our apparatus was far from ideal to show off our system concepts."

But it had a catchy name: "A Six-Megacycle Compatible High-Definition Color Television System." The key word here was "compatible." Brown recalls how David Sarnoff was introduced to the new RCA phrase.

"We were in complete agreement that our objective should be a compatible high-definition color system contained in a conventional six megacycle channel. A pair of NBC vice presidents visited David Sarnoff to explain the meaning of compatibility and to tell him how to spell the word. Within a week, he became the champion of compatibility and within a year, assumed a proprietary interest."

The first public RCA demonstration. Variety Daily headlined: "RCA Lays Colored Egg." Newsweek observed, "RCA's three-tube electronic device shifted shades like a crazed Van Gough. It took the color on the wrestlers and spread it across the bodies and a gymnasium wall."

Brown himself would reflect, "The audience was so stunned by our audacity that little attention was given to our display of some phosphor lines which were supposed to illustrate the possibility of a single color kinescope (tube)."

The following day, October 11, Peter Goldmark took the witness stand and engaged in this exchange with FCC Commissioner Freida Hennock: Commissioner Hennock. "I had asked you a question earlier, Dr Goldmark, and you said you would rather answer it after your testimony. Would you like to answer it now?"

Goldmark. "Would you mind repeating the question?"

Commissioner Hennock. "I asked you how long it would take to make field tests on the RCA system with regard to propagation and apparatus."

Goldmark. "Under the conditions, I don't think there should be a field test on the RCA system at all. I don't think the RCA system should be field tested because I don't think the field tests will improve the system fundamentally."

Commissioner Hennock. "Do you mean to say that nothing can improve the RCA system?"

Goldmark. "No, nothing, I think."

Commissioner Hennock. "And then you advocate that they drop the system now?"

Goldmark. "I certainly do."

Commissioner Hennock. "And not even go into field testing?"

Goldmark. "Absolutely."

In fact the RCA demonstration was so poor that few could conceive the color displays being any less attractive. Brown blames the problem on a number of factors including a record heat wave, a lack of air conditioning for the equipment, too many hands adjusting too many dials and knobs, and too many self-

appointed chiefs and not enough Indians. Brown at the end of the initial demonstration found, "the reception so bad that I telephoned to the studio to verify that the transmission was still in color, and not black and white."

Nominally you might expect with so many hundreds of millions of dollars on the line, a blood bath would have followed. It did not. David Sarnoff reacted to Peter Goldmark's late testimony to Commissioner Hennock by hand writing a memo which was widely circulated to "his team." In it he said:

"The (Goldmark) testimony suggesting RCA should withdraw our system is the most unprofessional and ruthless statement I have ever seen made by anyone publicly about a competitor. I have every confidence that the scientists and engineers of the RCA will answer this baseless charge by the improvements which I have already seen since the first demonstration and which will be made during the coming months."

Your mother possibly advised you, "First impressions are the lasting ones." This was mid-October 1949 and the FCC color hearings would continue until mid-May 1950. In that period of time, RCA would not only correct the "crazed Van Gough images" reported by Newsweek but in the final chapter actually pull a technological rabbit from the hat. If they did these things, would this change the first impressions formed about RCA on October 10? Almost to a man (and woman), no.

All that CBS had to do from this point forward was sit still, be kind and courteous to the FCC questioners, and let nature take its course.

Not all of the claimed entrants in the FCC's color race made it to the Washington starting post. Most recognized that when the FCC did finally settle on a color format and "standard," there would be a relatively long "patent life" for the designer of the winning system. This attracted more than merely RCA, CBS and CTI. General Electric in July (1950) announced a "frequency interlace" system which they claimed "was compatible (with black and white), economic and offered freedom from twinkle, (line) crawl (a reference to the CTI system), flicker (and a reference to the CBS system) and color shifting (finally, a reference to the RCA system)." For whatever the corporate reasons, after attracting attention in *Broadcasting Magazine* the system never became a serious contender. And there was yet a fifth system developed by Paramount Television Productions using

technology from a firm calling itself Chromatic Television Labs, Inc. and the testing facilities of the Don Lee Broadcasting System (W6XAO in Los Angeles). Press attention - yes. Real world demonstrations - no.

Brown was determined to make the system work as it once had, although only briefly before having to be shipped from Princeton to Washington. He knew instinctively that what he saw in Washington's "show 'n tell" was not the RCA system. Gremlins had snuck in someplace. RCA had committed itself to nearly a week of demonstrations: Day one for the FCC, following which any interested person with a "ticket" of admittance. When word spread about how bad the images were, the "ticket" became much sought after. Al Warren writing in "TV Digest" observed, "It is the hottest ticket in town." Almost nobody could believe the bad reports would be confirmed by an actual visit; could (the great) RCA have set itself up for such a massive blunder?

Brown began taking the system apart stage by stage. First, to combat the torrid heat that continued for most of the demonstration week cooking the huge metal cabinet enclosed receivers, they ran a small wire under a carpet from a test receiver to a chair in the middle of the second viewing row. There he stationed a full-time RCA engineer who sat as unobtrusively as possible fingering a potentiometer (control) which allowed him to "track the hue" or color purity range. As the receivers heated up and the pink on a man's face began to shift towards the green grass behind him, the engineer touched up the control.

Brown. "The crowds were so large that all of the chairs were occupied and many of our guests were left standing." Brown's immediate superior noticed the RCA engineer 'lounging' in a comfortable and valuable seat and demanded the man should be moved.

"I informed him that our hue control occupied that chair and he had to admit that the pictures looked much better - for a few minutes at a time they were even very good."

If RCA was having a bad time, CTI was in even worse shape. They elected to demonstrate their system using projection receivers and the results were so dim that even in a pitch black room the viewers had to guess what was on the screen. One specially annoying and totally unacceptable artefact appeared when the CTI system was shown on a black and white receiver. They claimed it

was "compatible" (like RCA) but the line-sequential format signal refused to stay still on the black and white screen. Each line of video jumped up and down and danced from side to side. Brown apparently felt sorry for CTI in the midst of his own problems.

"I wondered why CTI persisted with this system (and demonstrations) in view of really horrible results." Perhaps the boys from San Francisco believed that if RCA could hang in there, they could too.

FCC Chairman Coy decided to bring the presentation aspect to a head and scheduled a late November "side by side demonstration" in which all three applicants were told they must be prepared to use the same video and audio scenes to transmit to their receiver (side by side with the competitor's receiver) the same image. CTI took this opportunity to bow down if not totally out; they would not participate in "side-by-sides."

The FCC arranged receiving location was "Temporary E Building" which had been temporary from World War 1. In three rooms: One equipped with side by side black and white receivers from RCA, DuMont and a CBS supplied (Bendix) black and white receiver amended with a Goldmark "converter." In two adjoining rooms, one each RCA, CBS color receivers and a DuMont black and white receiver. The WNBW studio was the location of the cameras - DuMont supplied a black and white which then fed via leased line to DuMont owned and operated WTTG, CBS had a color wheel adapted camera which went to CBS affiliate WTOP while NBC's elaborate tri-image-orthicon camera fed into the WNBW transmitter. Doubtless Washington area viewers were puzzled by the strange video simultaneously appearing on their three local channels.

Each side played their own trump card in this demonstration. Why DuMont's black and white was even included had been a mystery until it came time for their transmission sequence. It consisted of two men (one black, another white) boxing, followed by a choral group made up of a large number of black men outfitted in black tuxedos, black bow ties, gleaming white shirts with white carnations in their lapels. The DuMont subliminal message was, "color" would add very little if indeed anything to their two selected events.

CBS produced a "Woman's Program" with an auburn haired hostess. Well, she had auburn hair on rehearsal day and as RCA would be

staffing each of its receivers with a "hue control engineer" who would make constant (as required) adjustments to the receivers during the telecasts, notes were passed from the WNBW studio to the Temporary-E engineers as to what colors to expect and therefore indirectly how to adjust the hue controls. But CBS pulled a fast one - on the day of the actual telecast, the same lady appeared with what George Brown described as, "a ghastly shade of pink hair." Naturally the RCA engineers at the receiving site thought their TV sets had gone whacko and immediately began twisting the hue control to compensate. When they somehow managed to turn ghastly pink hair into auburn, the lady had a green face. The FCC personnel watching this without knowledge of the subterfuge dismissed the entire RCA display as, "RCA is out of adjustment - again."

RCA was not above some minor shots at the enemy. One of their live acts was a champion lady baton twirler. Brown figured that the rapidly gyrating baton would be moving so fast that on the CBS system it would appear as a broken series of disorganized lines - his way of illustrating the low definition aspect of the CBS system. It did as he forecast but nobody from the FCC seemed to even notice the ragged display.

The FCC sessions were now almost two months on with virtually no off. Brown reflected on the Temporary E demonstrations in this way:

"The performance of the RCA systems was not too bad during these comparative demonstrations. While our color fidelity left something to be desired, the colors were no longer unstable. The detail in the picture was good and compatibility (with standard black and white receivers) was proven. Our bulky triniscope receivers were quite properly ridiculed by CBS and many others. Our color cameras were certainly more complicated than the CBS cameras. But our confidence was returning to high again. We felt our basic system principles had been demonstrated, although to a hostile audience."

If RCA "confidence was returning to high" CBS was over the moon. Capitalizing on the yet-to-end color side shows, CBS mounted their own WTOP weekday demonstration which was their way of keeping color on everyone's mind and the pressure on RCA and the FCC.

(Continued next month)

# LIFE AFTER ANALOG LOW BAND DXING

What DXing May Be Like After the Analog Turn-Off Date  
From posts appearing on the WTFDA List on Topica.com

Today (2/12) was the deadline for TV stations to make a choice in the first round of DTV channel elections. Unfortunately I've been unable to find a database listing the choices made, which will make it impossible to accumulate a comprehensive list. However, if you're curious about a specific station, try:

- Go to [http://svartifoss2.fcc.gov/prod/cdbs/pubacc/prod/app\\_sear.htm](http://svartifoss2.fcc.gov/prod/cdbs/pubacc/prod/app_sear.htm)
- In the Call Sign box, enter the calls of the desired station.[0]
- In the first File Number box, enter BFRECT.[1]
- Leave the second File Number box - and all other boxes - empty.
- Click "Submit Application Search", or hit Enter.
- On the resulting screen, click on "Application".

You get the actual FCC Form 382, "DIGITAL CHANNEL ELECTION FORM FIRST ROUND ELECTION", submitted by the station. (usually electronically)

Scroll down to Section II. There are three possible selections:

"a. Licensee/permittee makes the following channel election from its currently assigned (DTV or NTSC) channels"

Most stations will have chosen this box. They must then enter either their second digital or their first analog channel in this box.

"b. Licensee/permittee has entered into a Negotiated Channel Election Arrangement and, accordingly, makes the following channel election, subject to Commission approval:"

Stations making this choice have negotiated an agreement with another station to use one of their two channels. They must enter both the channel they prefer to use, \*and\* an alternate channel in case the FCC does not approve their negotiated arrangement. The alternate channel must be either their existing analog assignment or their existing digital assignment.

"c. Licensee/permittee makes no channel election; accordingly, licensee/permittee elects to participate in the second round of elections. This option may be selected only by licensees/permittees with only one in-core channel or with two low VHF channels (2-6)."

Of course, stations making this choice don't enter any channels yet.

The vast majority of stations are choosing option A.

Two good examples of stations choosing option B are WBBM-DT and WTTW-DT in Chicago. WBBM is analog channel 2 and DTV channel 3; WTTW is analog 11 and DTV 47. The two stations have negotiated an agreement under which WBBM-DT will operate on channel 11 and WTTW-DT will stay on channel 47. If this agreement is disapproved by the FCC, WBBM's second choice is DTV channel 3, while WTTW will move their DTV operation to channel 11. (I believe WBBM would still have the option to jump into the second or third round and select a channel dropped by some other station.)

So far the only station I've seen use option C is WCBS-DT New York City. Their analog channel is 2 and their digital 56, which is outside core. WCBS finds neither channel acceptable for permanent use.

Channel elections in the Nashville market FWIW:

Station	Analog	Current DTV	Elected DTV
WKRN	2	27	27
WSMV	4	10	10
WTVF	5	56	5*
WNPT	8	46	8
WZTV	17	15	15
WNPX	28	36	36
WUXP	30	21	21
WHTN	39	38	39
WPGD	50	51	51
WNAB	58	23	23#
WJFB	66	44	44#

\* Cannot keep current DTV channel as it's outside core.

# Cannot keep current analog channel as it's outside core.

-- Doug Smith W9WI(Nashville)

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Thanks for the link, Doug.

If I'm reading this thing correctly, it appears that my local 3, 6, and 12 will remain on their UHF DTV channels.

I thought most VHF analog stations would move their DTV operations to their current analog channels. I certainly hope there will be some Es targets left.

--Danny (Shreveport, LA)

---

Not yet decided for sure, but it is almost certain the FCC will set a "drop-dead" date for analog.

That date was supposed to be the end of next year but there's an "out clause" in the law that allows them to extend that date. Just about everyone believes that clause will be used. But just about everyone also believes a fixed date will be set, and soon. I would be surprised if a drop-dead date isn't set by the end of this year, and I would not be surprised if one is set by spring.

The end of 2009 is the date I see mentioned most often. --Doug Smith(Nashville)

While the clearance date for analogs from low band is not yet certain, let me remind you that the Canadians are going to be behind by several years, followed by Mexicans. And then there are the Central Americans, Caribbeans, northern South Americans. So here is my "prediction." For a few years, while the balance of the western hemisphere "catches up" to digital, there will be a "boom" in double, triple even four-hop Es loggings all over the USA from outside the 48 states. In good old fashioned analog!

--Bob Cooper (NZ)

Re: "The end of 2009 is the date I see mentioned most often."

Drop dead means EVERYone is off their analogue channel. It won't happen all at once - some of (you) will find low band channels clear before others do. And it will be a channel at a time (such as WCBS leaving analog months or a year before NBC-4 or Fox-5 in NYC). Each station's cable relations, satellite (DirecTV + DISH) will figure into when they shut down analog. So it will be a phased-in situation, over time with a final ("drop dead") date at the end - whenever it might ultimately be. In addition to the multiple hop possibilities (western Canada for USA, including Alaska into New England which is a FREQUENT Auroral Es happening, etc.) we have to consider that with so few REAL stations broadcasting on channels 2-6, digital Es should become quite common there. What prevents it now is the presence of CCI. When half or more of the stations in a target area have abandoned their analog service, the digital signals will be as frequent visitors "then" as KDLO analog or WPBT analog are now. No CCI, or very little CCI, and the lower EIRP digital signals will bowl through. But at reduced signal levels which is where the possibility/probability of double, triple and quadruple hop Es comes into the scenario. This is not IBOC for FM - it is entirely different and I for one think it will be a positive, not a negative effect in the coming years. I would NOT be taking down my low band antennas anytime soon! --Bob Cooper in New Zealand

SECTION 1200

## Choose from Alliance

for the world's most popular TV antenna rotator

### ALLIANCE TENNA-ROTOR

Designed to rotate all conventional type TV antennas, the Alliance Tenna-Rotor consists of a fully enclosed, electrically driven one RPM rotator (shown at right) into which the antenna center-post is clamped. Four-conductor "zip" cable connects rotator with plastic control case (three models illustrated below) placed near receiver. A selector switch controls rotation to point antenna in any direction for optimum reception.



**Model U-88 - Fully Automatic**  
Simply set the pointer—antenna automatically turns by itself and stops at the direction shown on the indicator dial. New styling plus the exclusive automatic feature makes Model U-88 the ultimate in rotators. Available in Forest Green, Ivory and Mahogany Grains.

**Model T-32 - with exclusive Tenna-Teller direction indicator**  
This finger-tip, electrically driven and manually operated model is noted for extreme accuracy, compactness and smart styling. "Tenna-Teller" indicator dial shows the exact compass direction to which the antenna is pointed. Available in Forest Green, Ivory and Mahogany Grains.

**Model R-32 - Finger-tip control bar**  
When pressed on one end, control bar rotates antenna in one direction, reverses when pressed on other end. Center disc signal light indicates limit of travel is reached. Offers accurate, trouble-free control of antenna at extremely reasonable price. Available in standard color only.

**Thrust Bearing Brackets for Alliance Tenna-Rotors**  
The Alliance Thrust Bearing Bracket, accessory to Alliance Tenna-Rotor, is made to provide added support for all heavier conventional type antennas. It assures extra rigid support and maximum resistance to high winds.

Tenna-Rotor Division  
**THE ALLIANCE MANUFACTURING COMPANY, INC.**  
Alliance, Ohio  
Manufacturers of television and radio equipment  
Wholesale Distributors Everywhere

The ALLIANCE ... 1966 Service ... Page 31

## From the Gary Hickerson Collection of fine antenna hardware

Most of us, at one time or another, has owned an Alliance rotor like one of the three shown of the left. The center rotor box was whisper quiet, while the top rotor box clicked while turning and kept the wife awake at night.

# STATISTICS

Featuring FM/TV Scoreboards, All Time Distance Records,  
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## TV SCOREBOARD-CURRENT WTFDA MEMBERS

MAR 2005

FNAME	LNAME	LOCATION	TOTAL	UHF	LPTV	HDTV	ES	MS	AU	USA	DC	CN	MX	FO	TPU	YB	AS OF:	UPDATED
JEFF	KADET	IL MACOMB	1905	1356	689	74	279	9	0	45	1	7	15	68	???	1983	07/15/02	2002
BOB	SEYBOLD	NY DUNKIRK	1511	904	257	9	236	30	6	49	1	7	3	5	65	1950	11/09/03	2003
MATT	SITTEL	NE BELLEVUE	786	574	209	129	121	0	0	42	1	4	6	0	53	1999	12/31/04	2004
ROY	BARSTOW	MA TEATICKET	756	472	170	-	143	92	1	37	1	7	0	5	50	1971	01/20/02	2002
DANNY	OGLETHORPE	LA SHREVEPORT	745	346	93	-	256	18	0	40	1	4	28	3	76	1994	01/07/04	2004
JEFF	KRUSZKA	LA BATON ROUGE	723	475	123	67	148	0	0	35	1	1	11	4	52	1993	01/01/05	2005
WILLIAM	HEPBURN	ON BRAMPTON	644	417	89	-	135	1	0	38	1	7	0	1	47	1985	09/04/00	2000
RICHARD	SHAFTAN	NJ SPARTA	611	327	66	10	154	0	0	37	1	6	0	2	46	1981	11/24/03	2003
GERALD	WESTERBERG	KY LEXINGTON	528	277	12	131	87	0	0	39	0	7	4	1	51	2002	10/12/04	2004
PAT	DYER	TX SAN ANTONIO	488	155	13	-	199	64	0	42	1	5	18	5	71	1959	12/31/95	2005
DOUG	SMITH	TN PLEASANT VIEW	470	233	38	-	56	1	0	36	-	2	5	1	44	1994	09/06/00	2000
ERIC	BUENEMAN	MO HAZELWOOD	451	294	42	2	64	0	0	36	1	5	5	0	47	1992	01/25/04	2004
FRED	NORDQUIST	NY CLAY	430	280	56	-	81	3	0	36	1	6	0	1	44	1969	01/11/05	2005
MATT	SITTEL	FL TALLAHASSEE	378	208	25	-	97	0	0	28	-	2	5	4	39	1992	07/04/94	2000
RUSS	EDMUNDS	ME JONESPORT	219	34	10	-	-	-	-	13	-	5	-	-	18	1993	08/03/01	2001
JIM	RENFREW	NY BYRON/ROCHESTER	204	94	17	-	77	0	0	22	-	5	0	0	27	1989	09/04/03	2003
MATT	SITTEL	NC RALEIGH	185	109	15	-	44	0	0	24	1	1	3	0	27	1988	01/01/92	2000
RICHARD	STEINBERGER	MA HUDSON	93	56	5	-	6	0	0	14	-	1	0	0	15	1960	07/31/02	2002
MIKE	HAWK	NE OMAHA	89	54	12	0	5	0	0	11	-	2	0	0	13	1991	12/14/02	2002
JOHN	VERVOORT	KY MURRAY	84	39	3	-	25	0	0	18	0	1	0	0	19	2003	08/20/03	2003
JOHN	VERVOORT	NY BROOKLYN	78	54	0	-	7	0	0	14	1	0	0	0	15	1985	06/04/02	2002
PETER	GIACOPELLI	NY MASSAPEQUA	61	27	-	-	16	-	-	59	-	1	-	-	-	-	07/03/01	2001
MORRIS	SORENSEN	MB WINNIPEG	34	0	0	-	22	0	0	16	-	3	0	0	19	1999	01/09/05	2005

### COLUMN DEFINITIONS:

Total = Total number of TV stations logged from DXers location (All loggings should be received within 25 mile radius of this location to count.)  
 Freq. changes count as a station, call letter changes DO NOT count. Also count a station only once regardless if logged by different propagation modes.  
 UHF = All stations logged from CHANNELS 14 TO 83. LPTV=Low PowerTVTranslators logged. HDTV=High Density TV stations logged.  
 Es=Total number of stations logged by E-skip. MS=Total by meteor scatter. Au=Total via Aurora. USA=Total number of states and the "+\*" = Washington, DC.  
 CN=Number of Canadian provinces logged. MX=Number of Mexican states logged. PO=Number of foreign countries, but not Canada/Mexico.  
 TPU (Total number of political units)=Sum of USA CN MX and FO. YB = The year you began DXing from this location.  
 AS OF & UPDATED = Date of last update. MEMBER: W=Current Member of WTFDA. X=Former member.  
 DXINIT = 1st initial of first name followed by 1st&2nd initials of last name followed by - or numeral.  
 AS OF DATE = Date of last update (Only those who sent updates in Y2K and beyond are listed)  
 Notes: Updates to your statistics for FM & TV Scoreboards are needed.  
 This also includes any distance records, States Stats, & Personal Best Records. Please email me for a time saving template if needed.  
 A current/complete database of existing records and their formats can be found at : <http://home.twcny.nr.com/nordquistsyrl/>  
 WTFDA guidelines for counting stations can be found at: [http://anarc.org/wtfda/records\\_standards.htm](http://anarc.org/wtfda/records_standards.htm)

## WTFDA EMAIL REFLECTORS

Enhance your DXing experience! Entertaining and informational.  
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The WTFDA list...send an email to [WTFDA-subscribe@topica.com](mailto:WTFDA-subscribe@topica.com) 183 subs  
 The WTFDA DXalert list...send an email to [WTFDA2-subscribe@topica.com](mailto:WTFDA2-subscribe@topica.com) 34subs  
 The WTFDA AM DX list...send to WTFDA-AM-subscribe @topica.com 68 subs

DX Alerts contain real time, concise alerts of E skip and widespread tropo. No discussion is permitted



# THE 2005 MEXICAN FM STATION DIRECTORY

BY JIM THOMAS

-Over 1,000 changes in the Directory from last year's edition;  
 -Maps: There is a KEY map of Mexico, with each 'estado' (state) referenced.

Each state has its own page, with a mileage key (25 miles, 50 miles, or 100 miles) for that state;

-Maps have been professionally generated, using the top sales & marketing management software, with all cities and towns properly placed in their geographical location;

-Every fm station in Mexico is properly placed on its respective state map, with the correctly spelled and accented city or town of license;

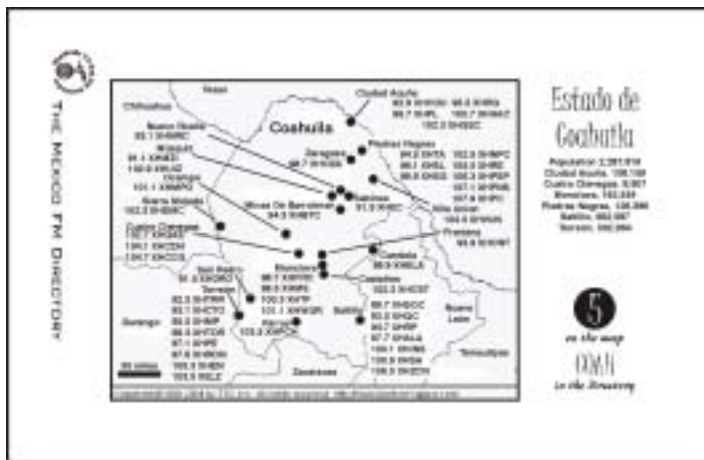
-Directory: A directory guide begins the directory section, with a frequency example showing how to reference each listing. Also included is a pronunciation guide for the Spanish alphabet. An example would be:



88.1  
 DF XHRED Ciudad de Mexico (95128 watts - Radio Red - ac) - pronunciation would be "EH-kees AH-cheh EH-reh EH DEH".

-NEW in the 2005 Mexico FM Directory - A page that describes each unique music format in Mexican radio, such as mariachi, ranchera, regional, grupero, norteño, banda, tejano, romantica, juvenil, catálogo, as well as the common US music formats.

-In the directory listings, each fm radio station is listed numerically by frequency, progressing from 88.1 through 107.9. Each listing includes: State abbreviation, city of license, call letters, wattage, slogan, and format.



**JUST IN TIME FOR  
 THE 2005 SKIP  
 AND TROPO  
 SEASONS!**

## ORDERING INFORMATION

To order your copy of the 2005 WTFDA Mexican FM Directory, send a check or money order for **\$7.00** payable to **WTFDA** and send it to **Jim Thomas, 280 Katsura Avenue, Milliken, CO 80543**. For more information email Jim at [mrradiohead@wdemail.com](mailto:mrradiohead@wdemail.com).

*Note: We still have a supply of 2004 Mexican FM Directories for sale at 50% off their original price. Yes, you can still order a 2004 Directory for just \$3.50 or take both for just \$10.*

# A LOOK BACK IN TIME

More Television Memorabilia from the Gary Hickerson Collection

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**CHAMPION**

out-performs every all-channel VHF antenna ever made!

2-Bay array gives: • 11-13 DB on the High Band.  
• 6-8-7% DB on the Low Band.

Here is a totally NEW kind of TV antenna, completely different — in principle and performance ... than any VHF antenna you've ever seen!

Channel Master's CHAMPION is the first antenna to employ a unique new broad band dipole system, in which the low band dipole provides exceptional low band gain, and also functions as three full-wave dipoles fed together in phase on the High Band. The result is an antenna that provides spectacular gain on every VHF channel, particularly on the High Band.

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**PREPARE NOW**

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designer of the CHAMPION

Dr. Lo, the Channel Master scientist who headed the Development Project which produced the CHAMPION, is one of the few men in the country to have written a Doctorate Thesis on the subject of antennas. In designing the CHAMPION, Dr. Lo actually created a completely new type of broad band dipole system ... and made a major contribution to the field of antenna engineering.

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It's the Most Advanced Antenna of its Type!

And it's only as low as \$22.00!

we call it the **TRAILBLAZER**  
you'll call it **SENSATIONAL!**

a new addition to the **CHANNEL MASTER** line

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model no. 335 \$22.22 list

THE MOST ADVANCED ANTENNA OF ITS TYPE

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**Make your checks/money orders payable to: WTFDA!**

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Return this form with your dues or make a copy of it and return that.

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*We have a large selection available for \$1.00 each. Email or write Dave for availability.*

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**PLEASE NOTE: ALL CHECKS/MONEY ORDERS SHOULD NOW BE  
MADE PAYABLE TO WTFDA.**