

Vhf-Uhf DIGEST

The Official Publication of the Worldwide TV-FM DX Association

JANUARY 2005

The Magazine for TV and FM Dxers

Think DX!



2005 Begins with Sadness and Changes in the WTFDA

(see Mailbox for details)

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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Adam Rivers and John Zondlo,
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ANARC Rep: **Jim Thomas**, *Back Issues:* **Dave Nieman**,
JANUARY 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 Mike Bugaj.



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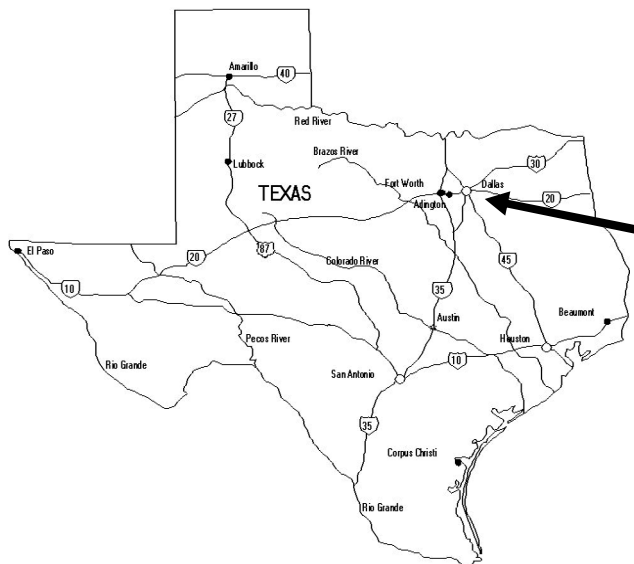
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Happy New Year! Please check out the Mailbox this month because there is information there that you *need* to know.

This month we have a smaller VUD. Bruce Elving says that FM translator approvals have dwindled down to nothing (finally!) so he has nothing to send (which is bad but also good).

Also there is a column or two yet to be received here. So if you don't see your favorite column, just be aware that there are valid reasons why it didn't make it.

But we have an updated membership list this time, and Bob Cooper presents another installment on color television. Happy reading!



WTFDA Convention 2005
DALLAS, TEXAS

Hosted by
John Callarman
ARE YOU READY!

Watch this space for more details!



The Mailbox

P.O. Box 501, Somersville, CT USA 06072
MIKE BUGAJ MBUGAJ@SNET.NET



David Janowiak 1939-2004

JANUARY 2004

This month we change our format just a little to pay tribute to WTFDA Treasurer David Janowiak, who died on December 11, 2004 at the age of 65.

Dave was a friendly, pleasant type of person who could keep you on the phone all afternoon if it was up to him. He loved to talk. He loved to talk about the club, about DX and especially about tennis! Dave was pretty good at tennis, playing in senior leagues in Milwaukee and doing pretty well at it. In fact, you could say that TV Dxing was his number two love, right after tennis!

Dave was married early on in life but regrettably spent much of it single, and he remained single to the end of it. He always spoke about getting back into TV DXing after retiring, but never quite did it.

Dave and TV DXing go back many years. **Bruce Elving** recalls: "I knew him, along with Ferdie Dombrowski, when I lived in Milwaukee in the early 1970s. *He and Ferdie were among the club's founders.* I came somewhat later, but was honored to be included among the group that "ran" the club.

It was with Ferdie's and Dave's encouragement that I started the "FM Atlas," which was to be a club project, but proved to be too time-consuming to be done on a volunteer basis. That the publication continues to this day is testimony to the publishing environment of Milwaukee in those early years.

Dave was active up to the end, buying

the current "FM Atlas" edition, and I'm glad to hear he made it to the convention in Omaha.

However, I am sorry I did not get there to see him one last time.

If his passing tells us anything it is about the uncertainty of life. I think Dave was within a few years of me, perhaps a bit younger, as is Ferdie, who is no longer a WTFDA member, but who writes to me regularly."

Those of us who remain should do what we can to pass on our expertise and interest in DXing to younger people, and do what we can to recruit new blood into the hobby.

Bob Cooper also adds: "There was a period between the original AIPA (American Ionospheric Propagation Association) and VUD when David, Morrie Goldman (Chicago) and Ferdinand Dombrowski (Milwaukee) carried on after I bowed out of the AIPA monthly bulletin. David was an active DXer with all of the latest "toys" and a keen enthusiasm, but hamstrung by a location where there were few open channels. He did the best anyone could under those circumstances. By 1970, well after AIPA, he and Morrie were the engine that kept the hobby alive under some trying (and contentious) times. Like many, even with a 40+ year association, we never met one another face to face although early DXing Horizons (1960-1961) photos of he with the "Chicago TV DX Gang" are clear in my mind. I never knew (until a recent posting) that he was a tennis "nut" but it fits - he was

meticulous to a possible fault which when the going got tough made him the perfect arbitrator and negotiator. Where he now rests TV and FM DX should be fantastic!"

Dave was treasurer for more years than I can remember. One of his most recent and best ideas was to create a joint account with the treasurer and publisher. This change allowed the publisher to carry a debit card attached to the club account and to pay publishing and postage bills immediately. We really owe Dave one for this because without this capability you wouldn't be reading this month's VUD. We *wouldn't* have had the funds to publish it! Thank you Dave, for everything!

AND NOW, CHANGES

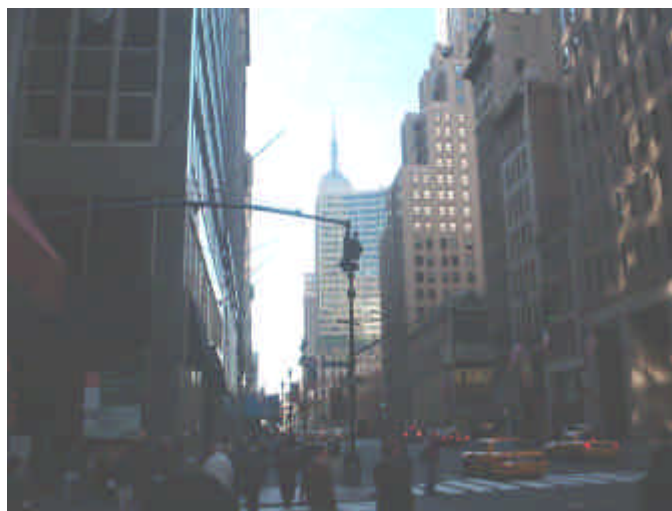
Following in Dave's footsteps could be a tough act to follow, except that we found somebody who can do it. The board of directors has voted and approved **Keith McGinnis** as our newest board member and WTFDA treasurer. Keith has been in the club for six years now. He's very active in FM DXing, TV DXing, AM DXing and, of course, longwave and beacon DXing. During the daytime hours Keith is an accountant for a large telecom firm in Boston. When work ends he's a husband and the father of two young girls. And to top that, he also is your Northern FM editor. How *does* he do it?

AND MORE CHANGES

It goes without saying that membership checks and renewal checks should NOT be made payable to Dave, as they were. At the present time our financial situation is still in flux. Keith will have to set up a new checking account for us. The funds in Dave's two checking accounts will, at some point, be sent to PO Box 501. Once we have them, we can transfer them to Keith and the new club account.

For the short term then, until further notice, please make all your checks and money orders payable to me, Mike Bugaj. I will then cash them and add your dues to the funds I receive from Paypal. When we have a new account up and running, I'll send all the incoming checks and money orders to Keith for deposit. Nothing has changed except for the name of the person you write on your check.

In the meantime, though, any check or money order we get here at PO Box 501 made payable to Dave will be mailed back to you unless you tell us to destroy it. We've already mailed some checks back.



WHAT IS IT?

Well, it's not the best photo in the world. You'd know what it is *if* we could just get that high rise out from in front of it.

Actually you are in New York City on 5th Avenue looking south at about 45th Street. Down the street a way about ten blocks, on your right, is the Empire State Bldg. What you see is the top of the ESB where the antennas are. This photo was taken around 10:30am on a cool December Saturday. Next time, we go to the top.

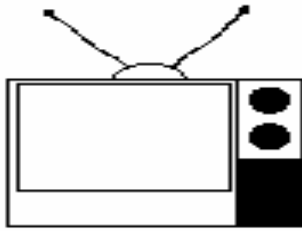
MEMBERS AND MORE

A big welcome this month to **Steve Duroche**, living out in the mountains of British Columbia and reading the eVUD. He's been on the WTFDA list for a while now and was prodded (or hounded) by **Les Prus** to join. Also welcome back to **Carl Hattan** down in Melbourne, FL.

Also returning for another year are **James Gould** (IN), **Steven Wiseblood** (TX), **Steve Solomon** on Cape Cod, **James Roggentine** (CA), **Bill Nollman** (CT), **Charles Gauthier** (QC) and **Girard Westerberg** (KY). Everyone I just mentioned used Paypal to join or renew.

Also I have received renewal checks payable to me from **Tom Bryant** (TN), **Les Prus** (VA) and **Rod Thompson** (CA). Also I'm holding on to a check and a money order made payable to WTFDA from **Chester Jaffee** and **Eldon Geiman** just in case we end up with a checking account that allows us to cash checks made out to WTFDA. If we don't then those will also be returned to their senders.

Last month the Mailbox ended with the words: "And now let's go take on 2005." Little did we know that 2005 would begin like this, but it did and that's exactly what we're going to do. See you all next month! -Mike



TV News

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<http://www.w9wi.com>

January 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:

British Columbia:

Brae Loch 15 CBUT-x XR from Myra
 Canoe 11 CBUT-x AF withdrawn



U.S. Virgin Islands:

Christiansted 52 W52DG FC; sold by TBN to independent religious organization

Alabama:

Homewood 28 **WTTO-DT** **PG<765kw/427m**
Huntsville 25 **WHIQ** **PR<338m**
 Mobile 15 WPMI-TV PR>563m, 30-36-40/87-36-27
 Tuscaloosa 23 **WUOA** **FC?, sold to University of Alabama, CC from WLDM**

Alaska:

Anchorage 45 K45HQ QC from K22FV, 35.5kw
 Juneau 15 KMOM-LP CC from K15FZ

Arizona:

Globe 16 K16FB PC<9.95kw, 33-17-21/110-49-45
Kingman 6 **KMOH-TV** **FC to Spanish (// KBEH-63 CA)**
 Littlefield 30 K30IP NS 150kw, 36-53-00/113-55-29

Winslow 20 K20IH NS 2.1kw, 34-58-16/110-39-05 (KAZT-7)

Arkansas:

Eureka Springs 34 **KWFT** **PR>1200kw/224, 36-24-41/93-57-14**
Fayetteville 9 **KAFT-DT** **NW 19kw/501m**
 Fayetteville 48 KEGW-LP XR 36-24-41/93-57-14
 Fort Smith 34 KWFT-LP CC from K34EN
 Fort Smith 43 KXUN-LP PC>5.8kw
Little Rock 5 **KETS-DT** **NW 2.1kw/548m, 34-26-31/92-13-03**
 Texarkana 19 KTEV-LP PR<1kw, 33-26-04/94-02-39; CL from Prescott

California:

Bakersfield 24 K24GS QG from K25FT, 35-21-42/119-03-34
 Bakersfield 31 KBTF-CA QC from ch. 39, 60kw; CC from KABE-CA
 Bakersfield 39 KABE-LP CC from KBTF; PR>60kw
 Banning 45 K45IC PR>10kw, 33-58-09/117-17-08 dismissed
Ceres 15 **KBSV-DT** **PR 18.7kw/151m; PG**
 Daggett 48 K61AE QC from ch. 61
El Centro 9 **KECY-TV** **PG<484m**
 Eureka 31 KEUV-LP CC from K31EW; PG<21.9kw
 Eureka 33 KUVU-LP CC from K33FN; PG<21.9kw

Eureka	35 KEAZ-LP	NW 50kw, 40-43-36/123-58-18 (TV Azteca)	Fort Collins	54 K54IK	NW 76.4kw, 40-32-46/105-11-51 (KCEC-50)
Fresno	3 K03HK	PR>1.9kw returned	Grand Junction	45 K63EI	QC from ch. 63
Fresno	12 K12OZ	PR>1.13kw returned	Grand Junction	47 K65CE	QC from ch. 65, 980w
Fresno	22 KZMM-CA	XR 37-04-19/119-25-49	Grand Junction	49 K67CJ	QC from ch. 67, 980w
Hodge	58 K58IG	NS 150kw, 34-45-36/117-07-06	Haxtun	35 K35GO	QC from K51AI, 890w
Inyokern	6 K61AJ	QR from ch. 61, 3kw, 35-28-41/117-41-58	Haxtun	41 K41IT	QC from K55CD, 890w
Inyokern	47 K47AE	PR<4.38kw	Holyoke	29 K29GI	NW 3.71kw, 40-30-37/102-21-33
Los Angeles	27 KNLA-LP	QC from ch. 68, 6kw	Julesburg	47 K47JH	QC from K31AB, 670w
Los Angeles	41 KLCS	AF 90kw/879m (aux)	Julesburg	51, K51IL, K53IY	QG from K39AC/K43BY, 670w
Mammoth Lakes	22 K22HB	NS 100w, 37-38-55/118-58-10	Julesburg	55 K55JC	QC from K41AB, 670w
Morongo Valley	18 K18HN	NW (x-K05CU) 1.78kw, 33-55-28/116-36-53; PG>7.5kw, 33-51-56/116-25-58	Connecticut:		
Needles	31 K19BR	QC from ch. 19, 1.06kw	New Britain	35 WVIT-DT	NW 250kw/434m
Oakland	56 KTVU-DT	PC>1000kw	Delaware:		
Porterville	54 KVVG-LP	QR from ch. 31, 20kw	Wilmington	14 WTSD-CA	PC>146kw, 40-02-30/75-14-11
Redding	29 K29FZ	PG<10w, 40-33-51/122-26-00	Florida:		
Redding	42 KQSX-LP	PG>13.5kw, 40-53-12/122-31-19	Cocoa	52 WTGL-TV	PR>3000kw/472, 28-35-12/81-04-58
Ridgecrest		See text	Daytona Beach	11 WESH-DT	NW 54.9kw/511, 28-36-35/81-03-35
San Diego	43 KBOP-CA	PG<4.1kw, 32-41-48/116-56-10	Fort Myers	18 WTLE-LP	CC from WDPX-NS 1kw, 29-28-23/82-35-20
Santa Barbara	46 K46GC	FC to Almavision Hispanic religion	Gainesville	22 W22DB	
Susanville	17 K61EN	QR from ch. 61, 1.01kw	Gainesville	29 NEW	GA from ch. 61 over objection of W29AB
Susanville-Herlong	19 K59ET	QR from ch. 59, 1.01kw	Gainesville	45 WYPN-CA	QC from ch. 43, 30kw, 29-32-09/82-19-18
Susanville	29 K63CM	QR from ch. 63, 1kw	Key West	5 W05CJ	PR<240w
Susanville	38 K69FS	QR from ch. 69, 990w	Key West	10 W10CQ	PR<470w
Ventura	49 KJLA-DT	NW 1000kw/937, 34-13-35/118-03-58	Lealman	43 W43CE	QC from W61AI, 45kw, 28-02-21/82-39-20
Watsonville	58 KCAH-DT	PG<151kw/699m	Leesburg	45 WLCB-TV	PR 3700kw/514m
Yreka	49 K49IG	NS 20.9kw, 41-35-35/122-38-17 (3Abn)	Leesburg	46 WLCB-DT	PR 660kw/514m, PG
Colorado:			Marathon	21 W65AP	QR from ch. 65, 150kw, 24-45-35/80-57-22
Broomfield	12 KBDI-TV	PC 226kw/742m	Marianna	51 WBIF	FC to UPN
Crystal	35 K35HK	QC from K60AH, 1.7kw, 39-25-24/107-22-32	New Smyrna Beach	33 WCEU-DT	PR<308kw
Denver	33 KMAS-LP	QR from ch. 63, 69kw	Orlando	22 WTOF-LP	FC to Daystar
Denver	43 KPXC-DT	NS 1000kw/356m, 39-40-24/105-13-03	St. Petersburg	35 WSPF-CA	PC>28kw
Dove Creek	15 K15GU	NS 300w, 37-45-37/108-54-39	Georgia:		
Estes Park	57 KZFC-LP	CC from K57AA	Columbus	33 W33CK	NS 5kw, 32-21-16/84-49-12 (Daystar)
			Perry	32 WPGA-DT	PR>100kw/186m, 32-45-04/83-33-27; PG
			Hawaii:		
			Honolulu	10 KALO-DT	GA from ch. 39

Honolulu	38 KALO	PC>206kw/579m, 21-23-33/ 158-05-43		Detroit	23 WUDT-CA	539w CC from WBXD-
				Escanaba	11 W11CZ	NS 100w, 45-45-48/ 87-05-45
Idaho:						
Boise	39 KKJB	NW 1295kw/534, 43-44-23/ 116-08-15, testing with bars		Kalamazoo	5 WGVK-DT	PG<169m
				Minnesota:		
Boise	41 K41IV	NW 150kw, 43-44-23/ 116-08-14 w/Jewelry Channel		Jackson	16 K59FN	QR from ch. 59, 3kw
				Lake Crystal	43 K43JE	NS 15.81kw, 44-06-40/ 94-13-50 (3Abn)
Boise	49 K49GX	QC from K56FQ, 150kw, 43-44- 23/116-08-15		Minneapolis	13 WUMN-CA	CC from WBWX-
				St. Cloud	30 K30IN	PR>50kw, 45-35-48/ 94-09-25; CL from Royalton
Lewiston	51 K55HZ	QR from ch. 55		St. Cloud	47 K47IT	PR>7kw, 45-35-48/ 94-09-25; CL from Royalton
Pocatello	47 K47JK	NS 49.5kw, 43-06-45/ 112-29-37 (3Abn)				QC from K54AC, 1.32kw
Illinois:				St. James	41 K41IZ	NS 10w, 43-52-14/ 92-30-27
Chicago	47 WTTW-DT	NW 150kw/474m (aux)		Stewartville	56 K56IR	
Quincy	13 W13DE	NS 50w, 39-58-19/ 91-19-39				
Quincy	25 W25DK	NS 800w, 39-58-19/ 91-19-39		Mississippi:		
Quincy	68 W68DV	NS 500w, 39-58-19/ 91-19-39		Greenville	15 WXVT	PR<1200kw/269
				Greenwood	32 WABG-DT	GA from ch. 54
Sugar Grove	40 W54BE	PR<12.3kw		Hattiesburg	10 W10CV	NS 3kw, 31-20-30/ 85-37-20
Indiana:				Hattiesburg	30 W30CB	PR>8.8kw, 31-18-26/ 89-24-47; PG
Indianapolis	69 WTBU-TV	PR>165.7kw		Laurel	53 W53CE	QC from ch. 48, 5w, 31-46-05/ 89-10-12
Kokomo	50 WKGK-LP	PC>10.8kw, 40-25-55/ 86-06-37		Pascagoula	7 WKFK-LP	XC 30-29-10/ 88-42-53
Muncie	52 WIPB-DT	PG>140kw/246m, 40-05-37/ 85-23-32				
Iowa:				Missouri:		
Cedar Rapids	51 KGAN-DT	NW 500kw/585m, 42-18-59/ 91-51-30		Cape Girardeau	22 KBSI-DT	NW 435kw/543m
				Columbia	27 K27IF	NS 2kw, 38-53-17/ 92-15-48
Des Moines	16 KDSM-DT	NW 500kw/612m, 41-49-47/ 93-36-56		Jefferson City	5 K05LU	NS 110w, 38-34-13/ 92-03-24
				Lewiston	9 K09XZ	NS 3kw, 40-05-55/ 91-50-36
Kansas:						
Pittsburg	49 K49GR	PR>24kw, 37-11-30/ 94-41-18		St. Louis	43 KTVI-DT	PC>1000kw
				St. Louis	51 KUMO-LP	OFF (temporarily, we think)
Kentucky:				Montana:		
Jamestown	9 W09CQ	NS 500w, 37-04-36/ 85-08-12		Billings	20 K20HB	NW 51.2kw, 45-46-00/ 108-27-27 (KUSM- 9)
Louisiana:				Columbus	24 K24FL	NW 610w, 45-37-36/ 109-15-36 (KULR-8)
Baton Rouge	41 KBTR-CA	PC<18.9kw, 30-26-59/ 91-07-55				
Lake Charles	14 KFAM-LP	PG>150kw, 30-13-24/ 93-18-36		Great Falls	16 KTGF	PR<308m
				Great Falls	45 KTGF-DT	PR 175kw/289m
New Orleans	38 WNOL-TV	AF 1440kw/132, 29- 58-57/ 89-56-58 (aux)		Kalispell	46 NEW-DT	GA, non-commer.
				Miles City	16 K16DH	PC>15.06kw, 46-26-08/ 105-50-53
Massachusetts:				Wolf Point	25 K25HO	NW 840w, 48-02-06/ 105-31-12
Marlborough	23 WUTF-DT	NW 100kw/334m				
Marlborough	66 WUTF-TV	PC 3311kw/356m		Nebraska:		
Michigan:						
Bay City	22 WNEM-DT	PG>1000kw				
Crystal	32 W32CD	QG from ch. 39,				

Omaha	43 KPTM-DT	PR>600kw dismissed	Syracuse	47 WTVH-DT	PR<500kw	
Valentine	33 KAZD-LP	NW 10.0kw, 42-53-22/ 100-33-15	North Carolina:	Raleigh	64 W64CN	PR>27kw; PG
				Sanford	46 WBFT-CA	CC from W46BF
				Wanchese	6 WMTO-LP	NW 600w, 35-50-48/ 75-37-19
Nevada:			Ohio:			
Battle Mountain	16, K16FD, 22 K22GM	NW 160w, 40-37- 05/116-41-19	Findlay	22 WFND-LP	PR>55kw, 40-56-26/ 83-52-43	
Carrara	30 K30IG	NS 150kw, 36-48-15/ 116-42-29	Newcomers- town	29 WIVN-LP	NW 74kw, 40-21-32/ 81-30-02	
Duckwater	15 K15GS	QC from K55CR				
Duckwater	29 K29GM	QC from K66BU	Oklahoma:			
Hawthorne	22 K22FH	NS 2.06kw, 38-27-27/ 118-45-49 (KRXI-11)	Altus	17 K17FP	NW 210w, 34-38-34/ 99-20-01 (KSWO-7)	
Las Vegas	2 KVBC-DT	NW 27.7kw/384m	Norman	11 KUOK-CA	CC from KDSA-	
Las Vegas	3 KVBC	PC<386m	Oklahoma City	24 KOKH-DT	NW 1000kw/ 476m	
Las Vegas	7 KLAS-DT	PC<16.5kw; then PC>30.1kw/609m			CC from KQOK GA from ch. 63	
Pahrump	41 K41CQ	PC>6.74kw	Shawnee	30 KTUZ-TV		
Panaca	43 K43DS	PC>6kw	Tulsa	26 NEW-DT		
Parumph	62 KHMP-LP	NW 5kw, 36-12-15/ 115-57-13	Oregon:			
			Ashland	39 K39EF	PR<24.5kw; PG	
Silver Springs	33 K33IB	NS 636w, 39-29-05/ 119-18-07 (KRXI-11)	Ashland	63 KFBI-LP	PR<250w, 42-17-54/ 122-44-53; PG	
Winnemucca	17 K17HB	NS 838w, 41-00-38/ 117-45-40 (KRXI-11)	Bend	41 K41HA	PR>8.9kw	
			Medford	25 K52EE	PR<18kw, 42-03-53/ 122-28-41	
Yerington	16 K16GM	NS 744w, 38-59-12/ 119-14-36 (KRXI-11)	Medford	28 K28GG	PR>24.5kw; 42-17-43/ 122-45-00	
					PC<491m	
New Jersey:			Portland	6 KOIN		
Atlantic City	7 WMGM-LP	CC from W07CE	Pennsylvania:			
New Mexico:			Allentown	46 WFMZ-DT	PG<400kw/331m	
Capulin	33 K33GC	PG>970w; PC	Erie	58 WJET-DT	PG>1000kw/310	
Capulin & Des Moines	48 K62AR	QR from ch. 62, 940w	Meadville	44 W52BO	QR RE from ch. 52, 21.6kw	
Gallup & Tohatchi	20 K20GC	NS 1.65kw, 35-36-18/ 108-41-11; NW (religious)	Pittsburgh	16 WQEX	FC to America's Store	
Ruidoso	16 K16BZ	PC>6.23kw	Pottsville	61 W61AG	PR>2.11kw; PG	
Santa Fe	9 KNMD-DT	NW 200w/1241m, 35-12-45/ 106-26-58	Sayre	24 W52CE	QC from ch. 52, 17.5kw	
New York:			South Carolina:			
Albany	15 WNYA-CA	PC<28kw, 42-38-12/ 73-59-45; CL from Easton	Columbia	47 WZRB	NW 750kw/192, 34- 02-38/ 80-59-51; UPN	
Amsterdam	50 WYPX-DT	NW 450kw/207m, 42-59-04/ 74-10-56	Greenville	9 WNTV-DT	NW 65kw/378m	
Hudson	21 W21BU	PR>6kw	Rock Hill	30 WNSC-TV	PG>2674kw/212	
Kingston	48 WRNN-DT	NW 950kw/378m, 41-29-18/ 73-56-56	South Dakota:			
			Rapid City	40 K40GS	QC from K31DK, 21.6kw, 44-19-42/ 103-50-05	
New York	33 WPIX-DT	QC from ch. 12, 160kw/397m	Tennessee:			
New York	44 WNYW-DT	PG>990kw	Acton	28 W28BO	PC<10kw, 34-58-18/ 88-30-59	
Plattsburgh	57 WCFE-TV	PG<462kw/737m	Jackson	39 WJKT-DT	PG<392kw	
Port Jervis	20 W20CN	NS 100w, 41-22-23/ 74-43-49	Lewisburg	34 W34DB	NW 11kw, 35-25-42/ 86-46-22	
			Nashville	14 WIIW-LP	PG>106kw, 36-08-27/ 86-51-56	
			Nashville	42 W42CR	PR>150kw; PG	
			Texas:			
			Amarillo	69 K69IH	PR<13.6kw,	

Beaumont 60 K60GP 35-15-40/
101-52-52; PG
NS 10kw,
30-06-51/
94-01-20

Crockett 65 K65HK XR 30-48-42/
95-42-14

Denton 2 KDTN PR>541m,
32-35-02/
96-57-48

El Paso 40 K40FW XR 31-48-19/
106-28-59
dismissed

Garfield 17 K63AY QC from ch. 63,
60kw, 30-19-24/
97-47-58

Houston 21 KVQT-LP XG 29-34-15/
95-30-37

Livingston 15 K15GR PR<2.5kw,
30-41-38/
94-56-12

Lubbock 6, K06OC,
20, K20II,
24, K24GP,
26, K26HW,
36, K36HK,
49, K49IH,
60 K60GQ NS 33-31-33/
101-52-07;
500w/4w/10kw/3k
10kw/5w/10kw

Nacogdoches 19 KYTX FC to CBS
San Antonio 15 KEVI-LP QR from ch.25,
150kw, 29-41-06/
98-26-59 returned

Snyder 42 K42ET PR>9.31kw,
32-45-34/
100-54-47

Snyder 47 K07TZ QR from ch. 7,
9.31kw

Snyder 49 K26DW QR from ch. 26,
9.31kw

Victoria 28 KXTS-LP PR>23.04kw
Victoria 45 KVTX-LP PR>23.04kw
Waxahachie 22 KNAV-LP XR 32-35-21/
96-58-12; CL from
Corsicana

Utah:
Manti/
Ephraim 43 K43JF NS 460w,
39-19-23/
111-46-25 (KUWB-
30)

Mexican Hat 13 K13XO NW 5w,
37-09-00/
109-51-34

Oljeto 4, K04OZ,
11, K11US,
13 K13XP NW 5w,
37-02-28/
110-19-48

Price 46, K46IC,
48 K48JE NS 150kw,
39-32-42/
110-48-56

Springlen 51 K51IC NS 1.42kw,
39-45-22/
110-59-21 (KUWB)

Virginia:
Craddockville 20, W52AB, QR from chs.
22, W58AK, 52/58/63/68,
42, W63AM, 24.8/25.1/31.1/
48 W68BH 32.8kw
Harrisonburg 8 W08DY NS 3kw, 38-31-
07/79-06-12

Onancock 25 W25AA PR<31.2kw; PG
Onancock 30, W41AC, QR from chs.
39, W44AD, 41/44/60,

34 W60AL 32.4/34/33kw,
37-50-32/
75-34-17

Richmond 26 WRLH-DT NW 800kw/328m,
37-30-45/
77-36-05

Richmond 54 WWBT-DT PC>1000kw

Washington:
Stemilt 38 K69BF QR from ch. 69,
14.3kw

Wisconsin:
Madison 11 WMSN-DT NW 15kw/471m
Milwaukee 10 WMVS PC 223kw/339m
Milwaukee 35 WMVT-DT NW 500kw/355m

Wyoming:
Casper 13 KCWY PG 10.9kw/488m,
42-44-45/
106-21-14

Casper 33 K33GI NW 20kw,
42-44-26/
106-21-36 (religious)
FC; sold to KCWC-4

Evanston 23 K23DS NW 37kw/318m, 41-
17-17/
105-26-42 (KCWC-
4)

Laramie 8 KWYP-TV QC from K08IQ,
2.31kw

Laramie 19 K19FX

Thanks to Peter Baskind, David Austin, Saul Chernos, Ronald Purdue, Karl Zuk, Frank Aden, and Eric Bueneman for information appearing elsewhere in this month's column...

Half of Ridgecrest, California's 18 translators have requested new channels or power increases. The applications:

Translator	New Channel	New Power	Translates
K59AO		33kw	KNBC-4
K65AM		83kw	KCAL-9
K67AO		123kw	KTTV-11
K53AB		3311.2kw	KTBN-40
K55AB		356.76kw	KCET-28
K57AK		396.76kw	KCBS-2
K41GO		414.76kw	KABC-7
K45GQ		454.76kw	?
K49AA		494.38kw	KWHY-22

I list K45GQ as carrying KTSC-8, but KTSC's in Colorado so I strongly suspect a typo! The first three translators also request a site change to 35-28-41N/117-41-48W, roughly a mile west of their current site.

Karl is seeing WPIX-DT now on their permanent channel 33. After the 9/11 attack destroyed their original DTV facility, they established a temporary low-power digital station on channel 12. (presumably using spare equipment from co-owned WTXX-DT in Connecticut, also on channel 12?) (or simply because they knew a co-owned station wouldn't complain about potential interference?)

The 160kw facility on channel 33 is still operating under special temporary authority; (Continues on next page)



SATELLITE NEWS

GEORGE W. JENSEN
4604 ANTANNA AVE, Baltimore, MD 21206-4220
SCISATMAN@AOL.COM

Greetings and Happy New Year 2005. There are a number of changes this month to note.

On **Satcom 4/AMC10** - XPDR 1 - delete American Movie Classics which has moved to XPDR 1 on Galaxy 1 also delete XPDR 7 Bravo which will be noted elsewhere. Other than the move of American Movie Classics to XPRD 1 here, there are no other changes.

On **Satcom 3** the Showtime East feeds on channels 118 through 127 remain missing. Intelsat America / Telstar 7 failed in operation in late November. Most analogue and non MPEG2 digital channels have moved to the new Intelsat America 13 at 121 West. WGN on Galaxy 5 XPDR 7 also running parallel on XPDR 13.

On **Galaxy 10** XPDR 19 - Spike now here and a streamer on the Outdoors Channel indicates they will leave XPDR 24 and switch

to a digital format immediately - "see our web site for details" The TVN Porn channels on channels 323 - 335 are no longer here - where?? - also Guthy/Renker Infomercial channels 780 - 782 are also gone.

On **AMC4** - XPDR 22 - add Bravo here in VC2.

On **AMC3** - XPDR 16 - delete CNN Financial and International Channel.

On PanAmSat at 58 W - the Argentinian Tango DMX channel is now at channel 815.

Lastly -all Fox Sports Channels will leave their current transmission status by January 1st 2005.

That's all for this month - see you in 30 and hope for great DX in 2005. "73's

TV NEWS CONTINUES FROM PREVIOUS PAGE

the permanent channel 33 facility will probably be more powerful. They were authorized for 265kw from the World Trade Center, with a higher antenna.

Eric notes KUMO-LP dark. He believes (and I've heard the same reports) the silent period is temporary, with the station planning to return shortly with one of the Spanish-language networks, probably Univision.

Eric also notes the Charter cable system in north St. Louis County is carrying WBIF-51 on KUMO's former channel. Which is bizarre, as WBIF is in northwest Florida! Indeed, that's how I got news of the WBIF format change - from Eric observing the station on a cable system in Missouri...

Regarding the new channel 14 in Memphis, Peter writes: "Actually, the tower is in Mississippi Co., Arkansas. The coordinates are the same as the Frenchman's Bayou tower that has been there for years. It was home to 98.1 (WSRR-FM) when it was licensed to Arkansas. It was/is home to 98.9, (WMPW) licensed to Munford (I am not sure if they have moved yet), and is the home of the WYPL(89.3)/Memphis CP.

I guess Citadel owns the site now since they bought Barnstable out here in Memphis."

Ronald has acquired a DTV receiver, and is noticing two of his locals - KTTC-DT 36 and WFTC-DT 21 - intermittently "cut out". Five other Minneapolis stations have reliable signals. Is anyone else noticing this on some of their locals?

(normally, I would expect intermittent "cutouts" on DTV to be the result of multipath. However, Ronald is at a considerable distance from Minneapolis, and I wouldn't expect multipath to be an issue.)

A quick scan of the Web suggests digital TV receivers use the same 41-47MHz intermediate frequency used by analog sets. (I suppose that makes sense, as it would allow using the same RF "front end" tuner modules used for analog) This also means DTV sets should have the same image responses as analog sets.

I'm sure some of you have seen "image" responses on your analog sets. This is where you see a station 15 channels lower than the channel it's actually operating on: for example, you see WMSN-47 on channel 32.

I would speculate Ronald's problem with WFTC-21 is image interference from KTTC-36, 15 channels higher. That's only a guess. And it doesn't explain why KTTC also has problems - image interference doesn't work the other way around.

January 2005

This month we welcome new contributor Eric Bueneman of Hazelwood, MO!

Equipment: Alaron 12" B&W TV, Zenith SpeakeZ mono VCR, Radio Shack VU-210XR at 30 ft. AGL.



K38II-38 Jefferson City, MO
100 mi Tr seen 5/18/04
@2358 CT
"still showing old calls, K11TB"



KTVK-3 Phoenix, AZ
1255 mi Es seen 5/22/04
@1324 CT



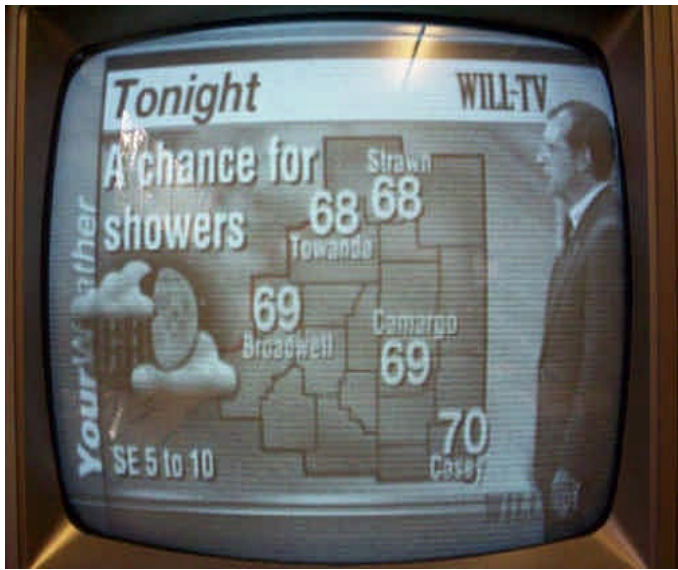
WDKA-49 Paducah, KY
155 mi Tr seen 6/13/04



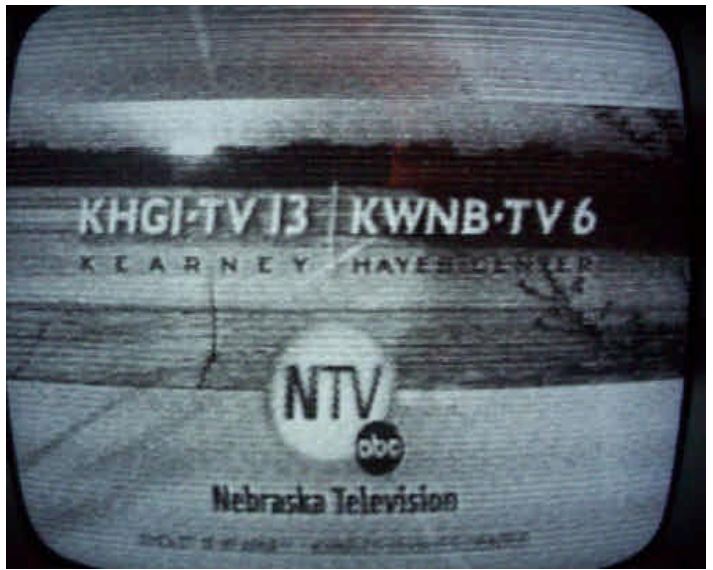
WCAX-3 Burlington, VT
970 mi Es seen 8/4/04
@1749 CT



W28BE-28 Springfield, IL
80 mi Tr seen 8/24/04
"local K28IK nulled"



WILL-12 Urbana, IL
155 mi Tr seen 8/24/04



KHGI-13 Kearney, NE
485 mi Tr seen 7/20/03



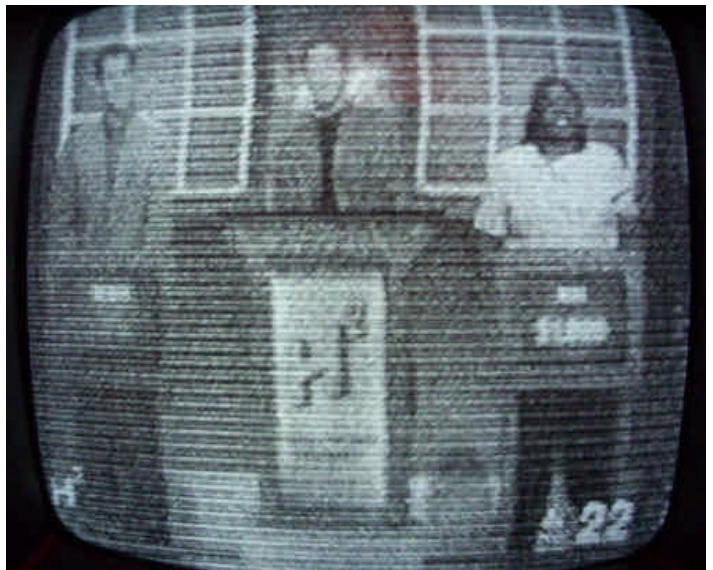
KWCV-33 Wichita, KS
400 mi Tr seen 7/19/03
@2230 CT



KOLN-10 Lincoln, NE
360 mi Tr seen 7/19/03
@1032 CT



KYW-3 Philadelphia, PA
820 mi Es seen 5/25/03

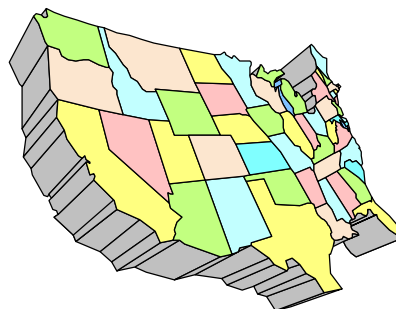


WKEF-22 Dayton, OH
340 mi Tr seen 8/25/03

The rest of Eric's photos next month. 73's, Jeff

WESTERN TV DX

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



Mike Cherry, VE7SKA, Salt Spring Is., BC
 CANADA

26 tr 0628 Little Rock 7, 16, 26 305
 29 tr 0659 WJSU 40 AL 385

December 7 Es 2134 KCBS 2 CA

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.

November 2004

5 tr	1839	KLRT	16	AR	305
6 tr	0909	WTJP	60	AL	390
	1952	XHAB	7	TA	505
	2018	KEYE	42	TX	395
	2024	KEDT	16	TX	425
	2027	KVEO	23	TX	500
28 tr	1742	WRJM	67	AL	"UPN 67" 320
	1745	WJSP	28	GA	390
	1749	WHDF	15	AL	360
	1754	WHNT-DT	59	AL	
	1804	WAFF	48	AL	400
	1806	WZDX	54	AL	400
	1828	WHNT	19	AL	400
	2112	WRBW	65	FL	600
	2113	WUSF	16	FL	550
	2116	WFTS	28	FL	550
	2125	WVEA	62	FL	555
	2126	WBIF	51	FL	355
		WOPX	56	FL	655
	2136	WXPX	66	FL	560
	2254	WTOG-DT	59	FL	550
	2257	WFTT	50	FL	550
	2305	WFTX-DT	35	FL	620
	2307	<u>WZVN-DT</u>	41	FL	<u>645</u>
	2309	<u>WXPX-DT</u>	42	FL	<u>560</u>
	2312	<u>WEDU-DT</u>	54	FL	<u>550</u>
	2314	<u>WTTA-DT</u>	57	FL	<u>540</u>
	2315	<u>WKMG-DT</u>	58	FL	<u>605</u>
	2320	<u>WFTS-DT</u>	29	FL	<u>550</u>
	2323	WMOR-LP	63	FL	550
		WMOR	32	FL	550
	2328	<u>WFTT-DT</u>	47	FL	<u>550</u>
29 tr	0000	WFLI	53	TN	485
	0017	WLTZ	38	GA	390

November 2004

9 Es 1815 unID 2+ NE, probably due to
 auroral activity 2 nights before

14tr 2000 WWAZ 68 new call for WMMF

26Es	1630	WEAR	3	
		WKRg	5	
		WTVYt	4	
	1637	unID	2,	6
	1639	WDIQt	2	
	1647	WBRCt	6	
	1658	WRBLt	3	
	1709	KFDXt	3	
		KBTX	3	
		KPRCt	2	
	1714	KDFW	4	Live parade in Ft.

Worth

	1717	KXAS	5	
	1731	KAUZt	6	
	1742	unID	6	NBC
	1805	KCWC	4	
	1819	KTVXt	4	
	1830	KIDKt	3	
	1859	KTBS	3	Audio ID
28Es	0445	unID	2	NE, French
	0458	unIDs	3,	4 NE

Some Es activity late in the month made it a little more interesting—other than that, not much. It was difficult getting motivated to do some Dxing during the Leonids meteor shower, so I didn't see much.

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

<u>September 2004</u>				CT
17 tr	2358	KEDT	16	TX signoff 425
18 tr	0001	KORO	28	TX Uni 425
	0012	WMAV	18	MS 285
	0020	WCBI-DT	35	MS 265

<u>October 2004</u>				
19 tr	2230	KXAM	14	TX 445
		KXAN	36	TX 395
	2318	KEYE	42	TX 395
	2319	KWTX-DT	53	TX 365
	2328	KTBC	7	TX 395
	2335	KLRU	18	TX 395

A nice opening to FL in November! Lots of new DTV's back-to-back. Look for photos in a coming VUD.

Steven Wiseblood, Boca Chica Beach, Texas

Equipment: SANYO 20" Colour TV, stacked UHF antennas at 25'

<u>11-27 tropo</u>				
2225	33	WVLA	LA	Baton Rouge, "NBC-33" promo "Y-100.7 New Country", ID 500
2241	20	WHNO	LA	New Orleans, religion 540 preaching the gospel
2242	32	WLAE	LA	New Orleans, ID on screen PBS, documentary on the Navajo Nation 540
2242	26	WGNO	LA	New Orleans, ABC-26
<u>11-28 tropo</u>				
0849	33	KMSS	LA	Shreveport, FOX-BOX cartoons 500

0909 27 WRDQ FL Orlando, gardening \$1005 "Home Talk Television", mention of Central Florida, and "The University of Florida", "VOOM" TV promo, ID @ 1100, "Action-27 News" promo; 2100 back in, "Action News-27" at 2103, mention of extra Security at Orlando airport.	0858 24 KLPB LA Lafayette, "LPB" dragon cartoon	445
0924 25 WXXV MS Gulfport, "FOX-25" ads600 0930 ID, "Woman to Woman";back again @ 1625 w/"Saints" football promo	0901 18 KLTL LA Lake Charles, "LPB" //24 w/dragon cartoon	395
1106 28 WFTS FL Tampa, ABC 935 ABC Golf @ 1536; 1934 ads, //5 Weslaco "Extreme Make-over Home Edition"	0910 33 WVLA LA Baton Rouge, NBC 500 0930 local weather, "NBC-33", mention of Baton Rouge.	
1142 27 WTXL FL Tallahassee, ABC 865	0955 40 WTWC FL Tallahassee, 865 "Tony Danza", ads, "NBC-40", "40" superimposed lower right corner PSA "Tallahassee Habitat for Humanity", "Community Callender" @ 0958	
1458 16 WAPT MS Jackson, ABC golf 620 "ABC-16 WAPT", ID	1010 27 WTXL FL Tallahassee, ABC 865 "The View"	
1539 20 WBBH FL Ft. Meyers, "NBC-20" 970 NBC Ice Skating, //23 Brownsville	1042 15 KADN LA Lafayette, "FOX-15" 445 mention of Louisiana, "Tony Danza" show	
1622 32 WNCF AL Montgomery, ABC-32 805 ABC golf, Tiger Woods	1625 25 WXXV MS Gulfport, "FOX-25" 600 mention of Ocean Springs, ads <u>12/7 tropo</u>	
1626 38 WNOL LA New Orleans, WB-38 540 "WB's BIG Sunday" promo	1737 15 KADN LA Lafayette, "FOX-15" 445 ID @ 1843 "KADN FOX-15"	
1631 18 KLTL LA Lake Charles, "LPB" 395	1750 33 WVLA LA Baton Rouge, NBC-33 500 NBC Nightly news	
1638 26 WGNO LA New Orleans, ABC-26 540 ABC golf w/Tiger Woods	1757 18 KLTL LA Lake Charles, "LPB" 395 promo "Baton Rouge Blues" @ 1800	
1640 24 KLPB LA Lafayette, "LPB" 445 cooking show //27	1800 16 WAPT MS Jackson, "WAPT-16" 620 ID superimposed lower-right screen. weather report with talk of storm damage	
1640 20 WHNO LA New Orleans, religion 540	1806 26 WGNO LA New Orleans, ABC-26 540 "ABC-26 news at 6", weather and sports	
1642 15 KADN LA Lafayette, "FOX-15" 445 FOX football	1808 38 WNOL LA New Orleans, "WB-38" 540 ads, The Simpsons	
1659 32 WMOR FL Lakeland, "Cheers" 970	2104 40 WDBD MS Jackson, "WB-40" 620 ID lower right corner of screen	
1703 40 WTWC FL Tallahassee, NBC 865 superimposed ID lower-right corner,	2108 25 WXXV MS Gulfport, "FOX-25" 600 ID upper right corner of screen	
1716 20 WCJB FL Gainesville, news 960 Florida weather forecast, sports, ID	<u>12/9 tropo</u>	
1731 46 WPCT FL Panama City, religion 780 program preaching about Jesus	0858 16 WAPT MS Jackson, WAPT-16 620 local news and weather	
1839 21 WMPV AL Mobile, TBN 660	0859 18 KLTL LA Lake Charles, "LPB" 395 "LPB kids club" Happy Birthday	
1925 18 WKCF FL Clermont, WB 985 "Charmed" very good at times, "WB's BIGSunday" "WB-18" ID @ 2032, car ads; promo "High School Reunion-3"; 2100 promo morning show live from Orlando.	0912 15 KADN LA Lafayette, "FOX-15" 445 "Divorce Court" @ 1100, ID, mention of Lafayette	
1939 35 WOFL FL Orlando, FOX 1005 ads @ 1945, Xmas cartoon	0918 35 WUFX MS Jackson, "FOX-35" 620 0919 43 KEJB AR El Dorado, "UPN-43" 580 Beverly Hillbillies to 0930	
<u>11/29 tropo</u>	0922 24 KLPB LA Lafayette, "LPB" //18 445 0929 39 KMCT LA West Monroe 555 "Victory TV" preacher, "There is Victory in Jesus"	
0459 42 WIAT AL Birmingham, CBS-42 830 Theme song from Cheers, begin "Russ and Dee" show" simulcast on FM 101.1 from the heart of Dixie"	0931 48 WNTZ MS Natchez "FOX-48" 535 "Judge Mathis"	
0513 41 WIIQ AL Demopolis, "APT" 735 Color Bars with "APT" in middle	0940 29 WMPN MS Jackson, PBS 620	
0515 40 WJSU AL Anniston, ABC news, 880 "ABC-40", "Good Morning Alabama" weather @ 0547	0943 31 KLAX LA Alexandria 480 "ABC-31" ads, "Montel"	
0517 40 WTWC FL Tallahassee, NBC news "NBC First Business", local announcements. 865	0944 15 WXVT MS Greenville, CBS 645 "WXVT-15" ID @ 0944	
0527 33. WCFT AL Tuscaloosa, 33-ABC 780 Golf course promo	0952 50 K50FI LA Opelousa, TBN 455 0953 66 KCTL-LP TX Port Arthur 345 ads, promo "KD morning show 101.7"	
0530 32 WNCF AL Montgomery ABC-32 805 "Good Morning Montgomery"; 0800 still in with "Good Morning America"	0957 33 WVLA LA Baton Rouge, NBC-33 500 into "Tony Danza" at 1000	
0534 28 WJSP GA Columbus, "GPB" 885 cartoons, "Georgia Public Broadcasting" 0600	1253 49 K49DE LA New Iberia, TBN	
0541 26 WAIQ AL Montgomery, "APT" 805 Color Bars w/"APT" in middle	1304 40 KAJN-LP LA Lafayette, "FV" 445 "Family Vision" network, program "At Home-Live", preacher from First baptist church of Lafayette, Louisiana	
0542 27 WTXL FL Tallahassee, news, 865 local weather	1412 44 WGMB LA Baton Rouge, "FOX-44" 500 "The Peoples Court"	
0555 unIDs on 21 & 29 with paid programming ads	1626 25 WXXV MS Gulfport, "FOX-25" 600 1918 54 WUPL LA New Orleans, UPN 540	
<u>12/1 tropo</u>		

Smackdown	1515 32 WLAE LA New Orleans,	540
1924 42 WEIQ AL Mobile, "APTV"	discussion program	
promo "APTV", show with Mexican mariachi	2008 21 WMPV AL Mobile, TBN	660
vocalists	2013 15 WPMI AL Mobile, NBC	660
1939 20 WHNO LA New Orleans, religion	ID @ 2015, NBC-15" news promo	
1940 26 WGNO LA New Orleans, ABC-26	2019 55 WBPG AL Gulf Shores, "WB-55"	665
promo "Desperate Housewives"	promo "WB-55"	
	2030 27 WRDQ FL Orlando, movie	1005
<u>12/11 tropo</u>	ID lower right corner, promo "WRDQ Action News	
1800 33 XHVCA MEXICO Veracruz, Cerro Azul	at 10",	
	begin "Action News" at 2100	
documentary program on Merida, Yucatan,	2033 27 WLPB LA Baton Rouge, "LPB"	500
RTV slogan superimposed lower right corner,	membership drive	
looks like this:	2037 18 WDHN AL Dothan, ABC	815
http://www.comsocialver.gob.mx/gobierno/images/RaTeVe.gif	ABC promos, "Desperate Housewives"	
ID "Radio Television Veracruz" @ 1830	2046 22 WHLT MS Hattiesburg, CBS	620
1851 33 KBPX-LP TX Houston "PAX"	"Survivor"	
religious group to 1900, lots of promos for PAX-49	2057 27 WTXL FL Tallahassee, ABC	865
	excellent @ 2153	
<u>12/12 tropo</u>	2134 20 WHNO LA New Orleans, religion	540
0540 15 KAMU TX College Station, PBS	preaching	
1134 15 KADN LA Lafayette, FOX-15", ID	2145 28 WFTS FL Tampa, "ABC"	935
1137 16 WAPT MS Jackson, "WAPT-16"	promo "ACTION NEWS"	
religious preaching	2156 30 WAWS FL Jacksonville, "FOX-30"	1010
1140 18 KLTL LA Lake Charles, "LPB"	"FOX-30" news, sports	
1144 25 WXXV MS Gulfport, "FOX-25"	2207 18 WKCF FL Clermont, "WB-18"	985
preaching religion; in again 2043, ID lower right	18 in a circle lower right corner	
corner	2213 45 WLCB FL Leesburg	975
1152 33 WVLA LA Baton Rouge, "NBC-33"	"727" area code, christian preacher	
1438 38 WNOL LA New Orleans, "WB-38"	2225 25 WJXX FL Orange Park, news	1000
slogan lower right corner	"WJXX-25 First Coast News". sports; excellent!	
	2238 56 WFSG FL Panama City, PBS	775
	pledge drive	

73's de Steve ABGP

HD Radio Transmission Via Satellite Tested

WUMB(FM) at the University of Massachusetts in Boston has hosted what participants say are the first tests of satellite transport of HD Radio encoded audio with program-associated data. Ibiquity, Broadcast Electronics, and the Public Radio Satellite Services teamed up to demonstrate that point-to-multipoint Studio-to-Transmitter-Links are ready for digital radio.

The WUMB-FM public radio network operates five transmitter sites in Eastern Massachusetts, and applications for more are pending at the FCC. The cost of terrestrial point-to-point leased data circuits for WUMB's STLs has reached break-even with the space-segment costs of a satellite distribution system, and funding has been acquired to purchase and install an uplink at the studio, and five downlinks at the transmitter sites, said participants. But there was a problem.

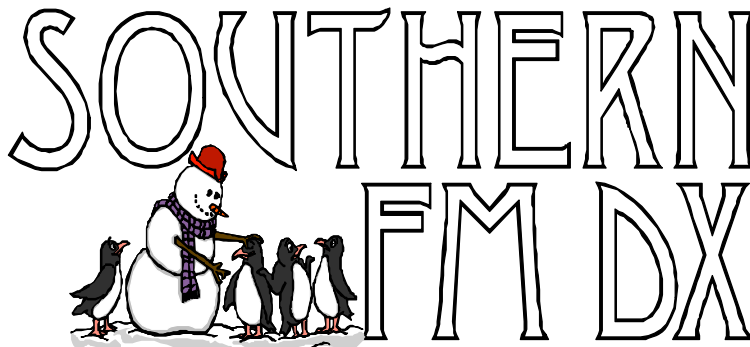
"Using today's standard satellite technology, we'd have to encode our STL audio using MPEG 2 at 128 kilobits per second to get through the satellite, and then re-code using the HD encoder at each transmitter," says Grady Moates, chief engineer for WUMB. "While that might be acceptable if all of our source material is linear, close to 40% of our programming comes to us through the Public Radio Satellite, which adds a third coding. I am convinced that a single HD encoder at our studio, with satellite distribution of the HD signal, is the answer."

Mike Kirk with PRSS research the issue and suggested a live test of the concept spanning half the continent using an off-the-shelf "satellite Ethernet modem" technology. Moates and Kirk designed the test to emulate a fully-digital broadcast of a live classical music NPR program, from the network all the way to the listener.

Kirk came to Boston for final assembly of the downlink equipment on Dec. 16. Moates said, "At first, it didn't work. After about an hour of head-scratching, as well as a break to attend the WUMB staff holiday party, we called BE's Dave Kroeger to get help with configuration of the IP addresses of the various components in the system. This worked.

The engineers said the tests show that HD + PAD can fit inside a standard 200 kHz digital SCPC channel on a satellite transponder, reducing distribution costs while improving audio quality through reduction of transcoding errors. In the 20 hours that the test was conducted, the modem counted zero data errors in the satellite link, they said.

Thanks to CPB funding, WUMB says it was the first public station in New England to broadcast with HD Radio. The Department of Commerce/PTFP is funding WUMB's plans to build the up-and-down-link sites in spring of 2005. WUMB expects to be on-the-air with HD Radio at its other four transmitters by summer.



John Zondlo
 4009 Driftwood Circle
 Yukon, OK 73099
 sfm@fmdxweb.com
 Deadline: 15th

For DXers in AL, AZ, AR, CA, CO, DE, DC, FL, GA, HI, KS, KY, LA, MD, MS, MO, NV,
 NM, NC, OK, SC, TN, TX, UT, VA, WV, Cuba & Mexico

January 2005

Joe Kureth – 2900 Uniontown Road –
 Uniontown, MD 21158

2000 Saturn car radio, DX-398

7/4 Es

1340 KXOR 106.3 LA Thibodaux, "Eagle 106.3,"
 Cajun Potato Chips ad
 1351 WJNF 88.3 FL Marianna, "WJNF, the
 Rock...?"

7/5 Es

1605 CHSJ 94.1 NB St. John, calls
 1613 WEZQ 92.9 ME Bangor, calls, 1st ME
 1616 CBHY 92.1 NS Yarmouth, wx, "can.com"
 mention
 1620 WCXU 97.7 ME Caribou, k
 1623 CJXL 96.9 NB Moncton, calls, k
 1628 CBHA 90.5 NS Halifax, RDS "CBC R 1"
 1630 CJBR1 89.5 PQ Riviere du Loop, FF nx
 1631 CJSE 89.5 NB Shediac, EE nx
 1637 CJFX 98.9 NS Antigonish, calls, r
 1639 CKBW 98.1 NS Bridgewater, calls, NS nx
 1641 CKEN 97.7 NS Kentville
 1651 CKPE 94.9 NS Sydney, "K-94," wx

7/6 Es

1014 WJPT 106.3 FL Fort Myers Villas
 1014 WBTT 105.5 FL Naples Park, "The Beat"
 1015 WDUV 105.5 FL New Port Richey, "The
 Dove"
 1016 WHQT 105.1 FL Coral Gables, "5-105"
 (meaning the songs in a
 row)
 1020 WQOL 103.7 FL Vero Beach, "Treasure
 Coast" ads
 1022 WJGO 102.9 FL Tice
 1024 WMBX 102.3 FL Jensen Beach
 1027 WCZR 101.7 FL Vero Beach, "Real Radio
 101.7"
 1033 WGNX 99.7 FL Vero Beach, "GNX"
 1034 WPOI 101.5 FL St. Petersburg, "The
 Point"
 1036 WALC 100.5 SC Charleston, "Alice," Hilton
 Head ads, 500 miles!
 1040 WCNK 98.7 FL Key West, "The Conch"
 1043 WCGO 98.3 GA Midway, Savannah ads, o
 1046 WRTO 98.3 FL Goulds, SS, Miami ads,
 RDS "SALSA"
 1048 WKGC 90.7 FL Panama City, RDS
 "WKGC FM," relog
 1049 WWWK 97.7 FL Marathon, "The Wave"
 //105.5

1051 WDJR 96.9 AL Enterprise, "Country 96.9"
 1055 WMMK 92.1 FL Destin, "K-92.1," k
 1058 WQNZ 95.1 MS Natchez, k
 1059 WAOY 91.7 MS Gulfport
 1100 WRGM 93.7 AL Geneva
 1105 WOAB 104.9 AL Ozark, calls, swap shop
 program
 1106 WYOK 104.1 AL Atmore, "Hot 104"
 1110 WKCN 99.3 GA Lumpkin, "Kissin' 99.3,"
 Governor Dan Lee
 political ad
 1118 WBAM 98.9 AL Montgomery, calls, again
 at 1814
 1125 WZBQ 94.1 AL Carrollton
 1127 WKWX 93.5 TN Savannah, TN #1
 1130 WSYE 93.3 MS Houston, relog
 1132 WQST 92.5 MS Forest, rel, AFR.net
 1137 KBKH 92.9 TX Shamrock, local rel talk pgm
 1145 WGFxt 104.5 TN Gallatin, Nashville ads, "The
 Zone," sports talk
 1148 WRVR 104.5 TN Memphis, "The River"
 1153 KABZ 103.7 AR Little Rock, "The Buzz"
 1156 KDEZ 100.5 AR Jonesboro
 1159 KJSM 97.7 AR Augusta
 1200 WCVK 90.7 KY Bowling Green, 1st KY
 1202 unID 106.3 ?? ??, SS, "Super ex-ee-toh,"
 nx
 1205 KIBZ 106.3 NE Lincoln
 1213 KBBX 97.7 NE Nebraska, SS, "La Zeta"
 1216 KSRZ 104.5 NE Omaha
 1228 WJCT 89.9 FL Jacksonville, "Turning
 Point" pgm, calls
 1300 WCNO 89.9 FL Palm City, calls, very weak
 1320 WAYJ 88.7 FL Fort Myers, "Way FM"

During the 4 hours of no skip activity I went to get
 the mail....and there was the July VUD lamenting
 the lack of Es on the front cover!

1719 WNSP 105.5 AL Bay Minette, calls
 1721 unID 107.9 ?? ??, sounded like WAYW
 1724 WXRg 105.9 MS Pascagoula, Bay St. Louis
 ad
 1725 WNRQ 105.9 TN Nashville, "The Grav
 105.com"
 1733 WRBO 103.5 MS Como, calls, Memphis wx
 1743 WLLEt 94.7 KY Mayfield, "Western KY's
 double Q" calls?
 1746 WBVR 96.7 KY Auburn, "BVR"
 1748 KHPQ 92.1 AR Clinton, "Q-92"
 1750 WKYQ 93.3 KY Paducah
 1755 unID 101.7 ?? ??, k, "The Hope"

1756 WEBQ	102.3	IL	Eldorado, IL Lottery ad, only 2 nd IL
1758 KBRQ	102.5	TX	Hillsboro
1758 KSMU	91.1	MO	Springfield, calls
1800 KSUI	91.7	IA	Iowa City, calls
1800 KASU	91.9	AR	Jonesboro, calls
1801 KIOA	93.3	IA	Des Moines
1802 KGGO	94.9	IA	Des Moines
1802 KRNA	94.1	IA	Iowa City
1804 WMT	96.5	IA	Cedar Rapids, "Mix 96.5"
1805 WKSR	98.3	TN	Pulaski
1808 KGMV	100.5	MO	Aurora, "My Country," k
1810 KHCA	95.3	KS	Wamego
1812 KNDY	95.5	KS	Marysville, calls
1817 WXS	101.5	FL	Quincy
1821 WMOC	88.7	GA	Lumber City
1824 KXKU	106.1	KS	Lyons, "Kix 106"
1828 WBTV	106.3	AL	Sheffield
1837 KDEX	102.3	MO	Dexter, "K-Dex"
1839 KZMP	101.7	TX	Azle, SS, Dallas metroplex ad
1842 WSRR	98.1	TN	Millington, Memphis ads
1844 KFCM	98.3	AR	Cherokee Village
1845 KQUS	97.5	AR	Hot Springs
1846 KDEW	97.3	AR	DeWitt, "Country 97.3"
1850 KTHS	107.1	AR	Berryville
1901 KOMS	107.3	OK	Poteau, "Big Country"
1902 KEZA	107.9	AR	Fayetteville
1905 unID	103.5	??	??, "Cool 103.5"
1906 KJEL	103.7	MO	Lebanon, "K-Jel"
1909 unID	97.3	??	??, Sean Hannity pgm
1912 WBKR	92.5	KY	Owensboro, wx warning
1919 KKIX	103.9	AR	Fayetteville, "Kix 104"
1920 KRZK	106.3	MO	Branson, Gospel
1921 WHOP	98.7	KY	Hopkinsville
1923 KFUP	99.1	MO	Clayton
1929 KGND	107.5	OK	Ketchum
1933 WXGL	107.3	FL	St. Petersburg, "The Eagle"
1934 KBMV	107.1	MO	Birch Tree, "The Point," Ozarks' Junior Fair ad
1937 WAOA	107.1	FL	Melbourne, "A One A"
1939 KFIN	107.9	AR	Jonesboro, "K-Fine"
1949 KQSM	98.3	MO	Columbia, "Sam 98"
1953 KCLR	99.3	MO	Boonville
2005 KFXJ	104.5	KS	Augusta
2026 KMEM	100.5	MO	Memphis, ID, St. Louis Cardinals baseball
2034 KKPR	98.9	NE	Kearney, "Power 99"
2036 unID	98.3	??	??, "Wow FM," Michael Savage program
2038 KHAK	98.1	IA	Cedar Rapids, calls
2050 KYIS	98.9	OK	Oklahoma City, "Kiss FM," TV 9 weather
2059 KOSU	91.7	OK	Stillwater
2102 KBTN	99.7	MO	Neosho
2104 unID	99.3	??	??, "X-FM"
<u>7/9 Es</u>			
1159 KRVS	88.7	LA	Lafayette, relog
1205 KLSA	90.7	LA	Alexandria
1216 WITT	104.5	MS	State College
1216 KLAA	103.5	LA	Tioga
1218 KMJJ	99.7	LA	Shreveport, calls
1223 KAPB	97.7	LA	Marksville
1225 KPCH	97.7	LA	Dubach
1228 KVKI	96.5	LA	Shreveport
1232 KXOR	106.3	LA	Thibodaux, relog
1234 KUSJ	105.5	TX	Harker Heights
1239 KNUE	101.5	TX	Tyler
1256	87.7	TX	Temple, KCEN TV audio
1305 KUHF	88.7	TX	Houston, relog

1312 KTPB	88.7	TX	Kilgore
1322 KHKS	106.1	TX	Denton
1327 KLLI	105.3	TX	Dallas, "Live 105.3"
1332 KOAI	107.5	TX	Fort Worth, "Smooth Jazz"
1333 KDXX	107.1	TX	Benbrook, SS, "La Amor"
1402 KYNZ	107.1	OK	Lone Grove
2031 KKCK	99.7	MN	Marshall, calls
2044 KNBZ	97.7	SD	Redfield, calls
<u>7/11 Es</u>			
1316 KAXF	88.3	TX	Conroe, calls, rel
1327 WWOZ	90.7	LA	New Orleans, jazz, 504 area code
1345 unID	97.7	??	??, "Super Hits 97.7"
1347 KWRW	9.7	TX	Rusk
1348 unID	98.1	??	??, "Eagle 98.1," r
1513 KVRN	90.7	AR	Marvell, calls
<u>8/4 Es</u>			
1905 KBPN	88.3	MN	Brainerd, relog
1920 KDAL	95.7	MN	Duluth, Super L Foods ad, "Magic 95.7"
1926 KQDS	94.9	MN	Duluth, "KQ-95"
1927 KNOX	94.7	ND	Grand Forks, k, "The Rooster," 1 st ND
1928 KUPK	94.1	MI	Marquette 1 st MI
1931 WIZM	93.3	WI	LaCrosse, "Z-93, Tri-State's Country Leader," 1 st WI
1931 WSCD	92.9	MN	Duluth, lake warning wx
1938 KQHT	96.1	MN	Crookston, "The Fox"
1942 KXXR	93.7	MN	Minneapolis, Excel Energy ad
1944 WHSA	89.9	WI	Brule, WI Public Radio
2002 KKXL	92.9	ND	Grand Forks, "XL-93"

Conditions on 7/6 were extraordinary, to say the least. Haven't seen such intense skip since May and June 1972. Most interesting is the skip was coming from all over the map with many unusual (for me) short hops. Now my shortest Es and longest tropo are from the same state and same frequency; WSSL and WALC, 100.5 in SC. Season was exceptional for me with 140+ new logs being tropo....poor season at this QTH for inversions. Added 6 new states: ME, TN, KY, ND, MI and WI. Total 586.

Leslie J. Prus, 8502 Camden St,
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Denon TU-1500RD tuner & APS-13 FM antenna, finally on the roof (25 ft AGL), fixed south until I complete rotator connections. Over the rest of the winter I'll do a survey of non-DX stations received regularly from my location -- high atop Mount Vernon J. All loggings below are new, all groundwave, EST.

12/17 Gw

1458 HHOV 88.1 VA Hampton, ID 125

12/18 Gw

1950 WESM 91.3 MD Princess Anne, ID 83
2014 WRVQ 94.5 VA Richmond, ID "Q-94" 92
2053 WMXB 103.7 VA Richmond, "New Mix" 88
2055 WGRX 104.5 VA Falmouth, w/RDS 40
2100 WRAR 105.5 VA Tappahannock, ID 62

FMDXWeb.com

TELEVISION: THE TECHNOLOGY THAT CHANGED OUR LIVES

BOB COOPER
PART FOUR

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"RCA described (at the hearings) a color system which was not sequential but could be called simultaneous." Where CBS was breaking up the origination point's TV image into an repeating series of red-blue-green images and "time sharing" the transmitted wave giving each of the colors 1/3rd of the total transmission time, RCA had a different approach. Brown continued:

"This consisted of four separate radio transmitters, one for each primary color and one for the accompanying sound. The arrangement needed a 14 megacycle band but the RCA lawyers insisted that if CBS could crowd its (color) signal into twelve megacycles so could RCA.

"The lawyers won this round, convincing the engineers they had to find a way to be no wider than CBS in spectrum usage. The crowding into 12 megacycles was made possible by the 'Principle of Mixed Highs' which had been espoused by (RCA's) Alda Bedford. Bedford's studies showed that for very fine picture detail the human eye distinguishes changes in brightness but fails to sort out changes in color. As a result, the high-frequency components of red, green and blue signals could be mixed together and added to the green signal. Hence the green transmitter (one of the four total) would transmit at full bandwidth while the red and blue would be spectrum limited, thus saving precious spectrum space." In 'Basic Television' written by Grob of the RCA Institute (1948), the system is explained as follows:

"A separate carrier is employed for each of the color signals with the green signal used to provide a standard 6 Mc/s channel with the FM sound." A diagram illustrates the green carrier at 519.6 Mc/s, FM audio subcarrier at 524.1, blue subcarrier at 526.3 and red subcarrier at 528.2 Mc/s. At the transmit end, the system required three separate (filtered) pickup tubes, three parallel chains of amplifiers and very complex synchronization to insure each image was in sequence and properly timed. In the accompanying complex receiver, three cathode ray tubes each fed by

a separate chain of IF (intermediate frequency) amplifiers, video amplifiers and then fixed filters to a housing mounted mirror which somehow was expected to focus all three images properly as a converged display on a transparent frosted screen.

RCA's Brown had no fond memories of this approach.

"I doubted the three UHF transmitters bearing the information regarding the three primary colors could be made to function as described by RCA. My opinion was not solicited but I am sure my disapproval was in evidence."

RCA elected to demonstrate this kluged system on January 29, 1947 at the Princeton (NJ) laboratory. Brown:

"Small low-power transmitters fed into antennas on the roof. The demonstration scene, the 'Penn's Neck Community Club', was about one mile distant. The demonstration was less than impressive. The receiver used three picture tubes and a lens to project the picture onto a frosted glass screen. The pictures were fuzzy with color fringes due to poor registration (registration: the challenge of making each of the three projection tubes be in exact overlay with the other two, a problem still not resolved with many consumer brand projection TVs).

"Part of the demonstration was designed to show compatibility, the ability to view the color signal in black and white on a black and white receiver. Of course a (UHF to VHF) frequency converter was the first requisite but RCA soft pedaled this point. The signal from the full 6 Mc/s bandwidth green transmitter was the one to be shown in black and white. The effect was not bad when a slide of a green parrot was used for then the black and white picture had a rather good grey scale. Before long, some enemy sneaked into camp with a slide of a brilliant red parrot, a parrot completely lacking a single green feather. The result on a black and white receiver was a coal-black parrot with no shades of grey and no trace of detail.

"Then came the demonstration of the mixed highs. The audience viewed the color pictures on the receiver while a switch was thrown at the studio on command by telephone from the meeting room. The reaction was mixed. Some viewers were impressed by the addition of fine detail while others did not feel the improvement to be astounding. Some days after the demonstration, we found a defective switch had failed to insert mixed highs at any time!"

This had two immediate effects. First of all, as the red, blue and green were being transmitted simultaneously (as opposed to sequentially), the TV transmitter and the TV receiver now required totally separate signal processing "chains" for each of the component color parts. Where a black and white receiver required only one video amplifier "string" the RCA "field simultaneous" receiver required 3 strings as a minimum. What had been a 26 tube receiver suddenly became a 40+ tube receiver. They were bigger, used far more electricity, and created new challenges for field servicing. But this was a prototype system and perhaps it would be improved.

Secondly, by combining all of the colors in the "wideband" green signal simultaneous stream RCA had laid the foundation for "compatible color." What was missing in the CBS system was that when CBS switched their color "on," every black and white TV set in the land went to squiggly lines on the screen; no picture at all. There would be a solution to this, but it would add expense to new receivers and the increasingly larger universe of black and white sets would be required to spend money to receive the CBS color programs in black and white. RCA's "Mixed Highs" approach for the first time offered the possibility that color could be "compatible" with black and white - that color sets would have color, and, black and white would have black and white of the same telecasts. In 1946 - 1947 it was not quite to that point - yet - but it was coming closer, without requiring existing black and white sets to spend money for a "black and white translator."

Goldmark had designed a prototype dual-purpose receiver - black and white at low band (channels 1 through 6) and color at UHF. He said, "this will be slightly more expensive than color alone" but gave no indication of what "slightly more" might mean. He also produced but did not demonstrate a "converter" which he said would allow the existing universe of black and white sets to view CBS color in black and white.

CBS came out of the demonstrations very buoyant; so enthused that Paley ordered CBS to return the four FCC granted construction permits which the corporation held for to-be-built VHF network stations in such major cities as Chicago and Los Angeles. Paley told the press, "We are so certain that full color using UHF is the right way to go that we are giving up all but our presently operating New York City channel and when the FCC will accept our applications, applying for UHF channels in the same markets." It would be a decision he would live to regret.

CBS's Stanton was considered a clairvoyant when it came to reading FCC actions in advance of their announcements. Immediately after the demonstrations for Chairman Denny and his staff Stanton, according to Goldmark, "thought we were in." But RCA had a few unused weapons in their arsenal. First, they told the press, "There are 250,000 sets in America at this time. These set owners who wanted to receive CBS color programs would have to buy an 'inefficient, ugly and expensive' converter to view color broadcasts on their black and white sets."

In fact there were not even 25,000 TV sets in America but nobody bothered to challenge RCA's pronouncement.

The FCC on January 30, 1947 met and then voted later in March on the CBS petition which if passed would have allowed UHF 12 Mc/s channel widths and color TV for the first time. CBS was shocked when the FCC said, "no - the CBS color system is premature" and then they reaffirmed the old black and white standards and VHF only.

Radio Craft for May 1947 reported it this way:

"Color television is not yet ready for commercial exploitation, the Federal Communications Commission has decided. The FCC decision came after several hearings in which Columbia Broadcasting System led the proponents of immediate color television and RCA spoke for those who believe color is not yet ready for the public. Both sides backed their arguments with showings of color television.

" 'The Commission cannot escape the conclusion,' " the FCC said in a fourteen page decision, " ' that many of the fundamentals of a color television system have not been adequately field tested, and that need exists for further experimentation.' "

"Television broadcasters and manufacturers interpreted the ruling as giving a green light to black and white television and some predicted that greatly expanded production would result almost immediately."

Six months later, mid-1947, there was political fallout as well. Goldmark notes:

"We felt we had been dealt a foul blow. Everyone in the CBS camp noted cynically that six months later (FCC Chairman) Denny accepted a post as vice-president of NBC, which is wholly owned by RCA. A subsequent Congressional investigation of the affair resulted in a change of FCC rules and an amendment of the Communications Act, prohibiting a commissioner from representing a company before the commission for a year after resigning from the FCC."

Seemingly, this would be the end of the color TV story but in fact it is merely a seventh inning stretch. It was March 1947 when the FCC said, "go back into the field and perfect the system." At that very point in time, according to the RMA 29,890 TV sets were in public hands. And according to *Televiser Magazine*, 9 cities had 11 operating television stations (New York, Philadelphia, Chicago, Detroit, Los Angeles, Washington [D.C.], Schenectady, Cleveland and St Louis). If CBS had a "plan B" beyond their haughty promise to not pursue television unless it was UHF color, it was not evident.

Through 1947, an additional 7 commercial TV stations would begin operation and at year end, 150,000 TV sets would be in public hands with 18 TV stations. AT&T would begin the task of interconnecting stations and markets using a combination of coaxial cable and 4,000 Mc/s terrestrial microwave repeaters. ABC, which had begun modest TV production in 1946, would cease programming during 1947 to concentrate on getting TV stations on the air; they had none at the time! In terms of advertising revenue and program production, NBC would lead followed by DuMont but neither would be profitable in their television network operations (DuMont's 1947 financial statement showed \$775, 235 as cost to operate its TV broadcast and network operation, not well offset by \$71,184 in income; a loss of \$704, 051).

RCA made it clear it was not abandoning color research. Dr. C.B. Jolliffe, VP in charge of Princeton's RCA Labs, told the press in March 1947:

"We propose to carry on with our research and development work in monochrome and color with all of the resources at our command, regardless of the status of operations, manufacture or non adoption of standards." Prior to the FCC decision turning down CBS color, he had made an almost identical statement peppering it with, "If the FCC does approve the petition, we shall still carry on with our research to perfect a 'compatible' color system."

Goldmark of course believed the FCC had seriously erred, and responding to allegations the weakness of his system was the mechanical rotating color disc required for both the transmit and receive ends of the circuit, he said:

"The CBS sequential color method is a universal one which functions not only with the single tube pickup and single tube reproduction methods in operation today, but will also function interchangeably with three tube methods, either pickup or reproduction, in the event future development should prove them to be workable and economically desirable."

George Brown wrote about RCA's attempts to make the rotating plastic disc into a workable system, "The color disc mounted in front of the image orthicon camera tube was almost seven inches in diameter. At the receiver, a disc twenty-two inches in diameter carried six color filters (2 for each color) and rotated at 1200 revolutions per minute (20 times per second) in front of a 9 inch kinescope picture tube."

With some slight variance, the receiver picture tube disc was a device 2.444 times the diameter of the picture tube. Thus a 20 inch tube, available from DuMont, required a disc 48.9 inches in diameter - more than four feet. As the picture tube size grew, so did the disc size. At the same time the horsepower of the electric motor required to rotate the disc grew proportionately and the noise of the rotating color disc plus the rapidly spinning armatures of the motor became quite objectionable. And none of this reduced the "flicker effect" which was inherent and basic to the flawed Goldmark design. That the FCC came close to approving this system in 1947 seems quite depressing; that they would in fact actually approve it for commercial use in 1950 is almost beyond belief. But we are getting ahead of our time line.

RCA apparently was more interested in the future that UHF held than some specialized

use of color TV there. This was driven by the FCC which by the fall of 1947 was increasingly concerned that the original channels 1 - 13 were inadequate to provide a true national service of even one TV channel for every home. This "squeezing of the megacycles" would be exacerbated early in 1948 when the commission eliminated TV channel 1 (44 - 50 Mc/s) from those available to television in a trade that kicked non-TV users out of channels 7 - 13 reserving these upper channels (previously shared with other services) for TV only, coast-to-coast. The spectrum for TV channel 1 had always been controversial, subject as it was to long distance "skip" interference and badly corrupted in metropolitan areas by motor cars and electrical systems. Late in 1946, NBC's WNBT and Don Lee's W6XAO had already converted off of channel 1 (WNBT to TV channel 4 - 66 - 72 Mc/s and Don Lee to channel 2 - 54 - 60 Mc/s) so the loss of channel 1 was no special hardship except to stations in markets such as Riverside (California) and Lancaster (Pennsylvania) where the FCC had assigned channel 1 as the only available TV channel.

At CBS, Chairman Paley was frying new fish. He with the help of tax advisers had worked out a clever scheme that allowed prominent radio personalities (Jack Benny, for example) to establish their own production companies. Then he changed the corporate policy at CBS to allow these self-centered one-man corporations to create and produce their own radio shows without direct CBS involvement and to own the shows. Then on a one by one basis, if the one-man owners "sold" their new corporations to CBS, they would be taxed at the much lower capital gains rate than as ordinary income. What this meant was he was able to attract to CBS radio (and later to CBS-TV) many of the NBC radio stars of the day and for a brief period of time tip the radio audience scale in favor of CBS. For Jack Benny, it was as much as 50% more money in his pocket and at pay scales approaching \$50,000 a week for a single 30 minute radio show, 50% was a heap of cash. Paley was apparently so pleased with himself that he momentarily ignored the tremendous growth going on under his nose in the television world. NBC, at the same time, did not expect the CBS tax avoidance scheme to pass IRS muster (it did) and while silently chortling about the hot water CBS would -they believed - suddenly find themselves bathing in, was betting that it would only be a year or two before radio was a has-been medium. In a nutshell, CBS was betting on radio "today" and NBC had their money on television

"tomorrow."

Midyear 1947. The FCC may have passed on color at UHF but not on UHF itself. As new stations were signing on the air, a new type of unexpected problem was appearing; interference between stations on the same (such as channel 4) and adjacent (such as channel 3 to 4) channels. Same channel interference was called "co-channel" or CCI for short. When the FCC elected to assign 13 channels to television service in 1941, some assumptions had been made about the minimum mileage separate (distance) between stations operating on the same channel, or on adjacent channels. The assumptions were based upon knowledge gathered in the 1930s using television transmitters of relatively low power (5,000 watts was high power at the time) and often with TV transmitting antennas located only a few hundred feet above ground. Moreover, TV receivers were very insensitive because they lacked some of the refinements that would be discovered during World War Two. Now, in mid-1947, it was increasingly evident that some serious errors had been made with those assumptions. Stations as close as Detroit and Cleveland (105 miles apart and most of that across Lake Erie which readily propagated the TV stations in both directions) or Washington to Lancaster (only 90 miles apart) had been assigned the same VHF channels. If you lived in downtown Detroit or downtown Lancaster, everything worked fine. But if you lived in between two cities using the same channel, your TV screen was more often than not a blurry mess of horizontal lines as the two TV signals fought it out inside of the TV receiver to "dominate" the receiver's signal processing circuits.

The FCC decided to do what they did best at the time - schedule a hearing to take "expert testimony." One of the proposals FCC engineers were floating at the time was the concept of closing down VHF totally and moving all TV to UHF - where, they believed, this sort of interference would be far less troublesome.

Brown found the FCC's plan disturbing.

"...the (FCC) Commissioners still clung to their respective fantasies of making UHF 'equal' to VHF" and "as late as June 1956 the Commission stated it was convinced it should undertake an analysis of the possibility of improving and expanding the nation-wide television service through the exclusive use of the UHF band without the concomitant use of the VHF channels. They were still dreaming.

WTFDA MEMBERSHIP LIST 12/20/04

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Note: This list is accurate as of December 20, 2004. Any new memberships or renewals received after that date are not included in this list. Some fields may be left blank if information about an individual is unknown. This list shows all members, VUD and eVUD. Total membership on December 1, 2004 was 268 members, with 16 receiving only the eVUD. Every effort has been made to keep email addresses current, but accuracy is not guaranteed.



OUR MAN IN MONTREAL

This smiling mug belongs to none other than Charles Gauthier (St. Lambert, QC), otherwise known on WTFDA chat as Charly-QC. Why is Charly smiling? It's because a) he just hit the lottery or b) TV Es is up to ch13 again. And that would make anybody smile. ☺

THIS MONTH'S COVER

This month's cover comes to us in two ways. Originally, Jim Thomas sent me photos of old DX gas stations. And since DX is what we deal with on a daily basis, what better way to keep DX in our minds in the winter than to look at a picture of DX on the VUD cover.

Jim also included a URL (www.gassigns.org) in his email, so I went there and checked it out. I found the photo I was looking for. If you have some time, I'd recommend a visit.

This visit led to an email to the webmaster, John Cirillo, asking for permission to use the photo. John emailed back and said

the following: "Please credit me as the photographer and note that it is copyrighted by me. There is no fee except that I request a copy of the issue bearing this photo. As I used to do a lot of FM Dxing, maybe reading through the magazine could inspire me to pick up this hobby again. I still have an 8-foot Winegard and rotor sitting in the garage that I keep meaning to put back up since several moves ago. Who knows."

All I need to add is that a January VUD will be in the mail to John. And isn't it a small world!

AH, SUMMER!



Ahhh! Summer! Green grass and warm temperatures and stacked channel 2 yagis in your backyard just waiting for some E skip. Well, maybe not in your backyard, but that's the way it was in Guy Falsetti's backyard in Lockport, NY, last summer. Guy is probably looking at this photo right now and thinking "Yes, I DO have grass under all that snow. Thanks for reminding me." And for us poor old Northerners looking out our windows and seeing nothing but white, it's just a reminder that spring and summer are surely on the way and the pool covers eventually *DO* come off!

SIGN UP/Renewal form

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Sign me up/renew me for: 1 year () 2 years () More ()

Yearly dues \$24 (US), \$26 to (CANADA), \$10 (Electronic VUD)
(Students get a discounted rate of \$15 yearly for the paper VUD.)

Mail your dues to: WTFDA, P.O. Box 501, Somersville, CT USA 06072

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And *thanks* for your support of the WTFDA!

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

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