Vhf-Uhf DIGEST

The Official Publication of the Worldwide TV-FM DX Association

JANUARY 2006

The Magazine for TV and FM DXers

WELCOME TO 2006!

WILL 2006 BE A MAKE OR BREAK YEAR FOR HD RADIO?

IS HD Radio Too Little...Too Late?

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High Definition AM/FM Clock Radio

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All Analog Television to End by February 2009!
DETAILS INSIDE

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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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Our website: **www.anarc.org/wtfda** Our forums: **www.wtfda.info**

JANUARY 2006

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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**.

CONTENTS

This month we have a few columns missing in action: FM North, TV East and TV West. One of our editors was away due to family problems and the other two had nothing (or next to nothing) to submit.

We've managed to find a couple of good articles on antenna stacking and we've put them in this issue. We hope somebody can make use of them.

Also the post office is raising their rates from 37¢ to 39¢ for 44 pages or less beginning with February, so just be aware that it's costing a little more to mail your VUDs. See you next month and enjoy this issue.

THE WTFDA FORUMS AT http://www.wtfda.info

This is the newest addition to WTFDA on the internet. The forums consist of a series of public forums for all TV and FM Dxers *plus* two forums just for WTFDA members; the eVUD forum and the Members-Only Forum. Register yourself and go take a look. It costs you **nothing more!**

THE WTFDA EMAIL LIST AT WTFDA.INFO

Due to popular demand, we've moved the list from Topica to the forums. The emails fly faster and you get subscribed faster! Just send an email to tvfmdx-subscribe@wtfda.info to be added to the list quickly. If you've had problems with Topica before, try us now and come onboard. Read on the web or by emails. Your choice!

The Mailbox

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

Hi folks and welcome to 2006, for better or for worse. In this issue we'll go over some of the changes to the WTFDA in 2005 and we'll try to figure out what lies ahead for the WTFDA and the TV and FM DXing hobby in the process. And if you don't agree, that's fine because we hope we're wrong anyway.

MEMBERS AND MORE

From 11/16 through 12/12 we received renewals from **James Roggentine** (CA), **Randall Trapp** (MN), **Wayne Benkinney** (MI), **Ed Norris** (IN), **Rod Thompson** (CA), **James Gould** (IN), **Ted Liscewski** (MJ), **Bob Seybold** (NY), **Les Prus** (VA), **Rick Shaftan** (NJ) and **Bruce Elving** (MN). We thank each and every one of you for staying for another year.

URGENT REQUEST

From Rich Wertman: As some of you know I've been working with numerous antenna manufacturers to try to bring back a 5-7 ft parabolic antenna. Yesterday I spoke with Wayne from Channel Master Andrew Corp in N.C. We spoke for about an hour. Seems he has been with the company thru thick and thin. When C.M. was bought by Anet back in the mid 90's decisions were made to cut a lot of the popular antenna lines. Like Quantums , Parascopes, Magnadynes, Channel Kings etc. They simply wanted to produce 18" dishes. Now, since being bought by Andrew corp. another large dish and cellular manufacturer, they had an influx of cash. There was rumor of bringing back the Parascope. However all those rumors can be put to rest as well as the Quantum line. Andrew Corp is not interested in producing anything that they can't build and sell at least 10,000 pieces. Also when the changeover happened all production was to move to Mexico. Well, that isn't happening either. But because the idea was to (move) they at N.C scrapped all the machines and tooling for parascopes. So I tried to buy the build plans for the parabolics from them. Guess what??? They can't find the stuff anywhere! So, I'm putting out a plea. Does anyone have a decent 6 or 7 ft parascope that I can get to copy the design and give to a friend in the aluminum business to reproduce this awesome product?

I will return it with no damage and I will pay for shipping. Even if you have an old broken down model we can still copy the design. Anybody that can help please e-mail me or phone me at 716-434-9216.

LOOKING BACK AT 2005

2005 saw the creation of the new WTFDA Forums, thanks to WTFDA member Chris Cervantez. Most of the sub-forums located there are for the use of WTFDA members and the DXing community in general, but the Members-Only Forum is restricted for use by WTFDA members only.

One change we made recently is to incorporate the eVUD Forum inside the Members-Only forum. What that move made possible is to allow any WTFDA member to read each and every eVUD if that member wishes. The result is that the eVUD will receive more exposure to the general membership than it did before.

We try to get the print VUD mailed as close to the 1st of the month as possible, but the eVUD is usually posted about the time the print version arrives at the printer, so eVUD readers get to see it days before the print version is mailed. And remember that an eVUD subscription is only $10 a year, great for those on a limited income. And besides, it has color.

We know most of you have computers, or at least have computer usage, so check out the forums, check out the eVUD and see what's going on there.

Another move we made in 2005 was to move our email lists (AM and TV/FM) from Topica.com and bring those to the wtfda.info server. All in all we've had one, maybe two people unhappy with the move, but on the other hand we've made a boatload of members happy. Topica was a good provider in the beginning, but in the past year they have degraded terribly and they still continue to slip.

FINANCIALLY SPEAKING

All of the checks I had were sent to Keith McGinnis around the middle of December and Keith should have a finance statement for you all in the February VUD.

FRANKLY SPEAKING

No doubt about it. Times are changing and the TV and FM bands are changing. There's a DX group down in Australia that has banned all DTV related posts from their reflector, but we've adapted. Once analog TV shuts down, DTV DXing will go on. The decision by Radio Shack a few months ago to mark down their Accurian set-top-box to just $85 meant that DTV Dxing was now affordable to many more members, and the digital world opened up to a large group of people. Analog TV DXing will live on for those looking for exotic Central and South American TV DX on low band VHF via Es in the summer. As many stations move off ch2-6, DXers will find new opportunities for logging rarely seen stations.

In FM DXing today there seems to be two distinct worlds; one with IBOC and one without. Those living in the IBOC world are finding FM DXing more difficult than ever. Some don't DX anymore. Every time a station goes HD, the DXer loses two adjacent channels. In urban areas where multiple stations have begun HD broadcasting, even a tuner retrofitted with 100khz filters can't help with the adjacent channels since the IBOC sidebands ARE the adjacent channels. Two antennas and a phaser like the Bolin phase box help reduce them, but don't eliminate them completely in most cases. Some of our members living in urban areas are either out of the hobby or hanging by a thread.

Those fortunate FM DXers who still live in their mostly non-IBOC world are still reporting aurora, meteor shower DX, tropo and plenty of E skip. These folks should be able to carry on as usual.

So, what to expect for the WTFDA in 2006? Well, read this post to the tvfmdx list by **Craig Healy**. Craig is an engineer with a number of radio station clients and he has a handle on the future:

"This will be a make-or-break year for IBOC. By this time in 2006, we will have a very good sense if it will be viable and growing, or stagnant and fading. FM IBOC does seem to work somewhat, though coverage is (to me) half the radius of listenable analog signal. That would change if/when it went to all digital. In a 50kw FM signal, the IBOC sidebands are a kw or so. No wonder it is inferior coverage.

AM will affect this quite a bit. Right now iBiquity and the associated groups are unwilling to separate AM from FM. Night use of IBOC will be problematic, as will many AM directional arrays. Some will never be able to be made broadband enough to pass an IBOC signal and maintain their monitor point readings. I can see the FCC requiring that these measurements be made on the adjacent frequencies used by IBOC, and possibly issuing separate limits for each sideband. It's the only real way to ensure the protections required. If AM IBOC fails, or cannot be implemented by a significant number of stations, the FCC will be forced to either sever AM from FM requirements, or make the whole thing voluntary. That would permanently lock in the so-called interim period with combined analog and digital transmissions. I doubt anyone would find that acceptable on a permanent basis. Were that to happen, I can see the receiver manufacturers bailing out en masse. That would kill IBOC.

Antenna and receiver research and improvements by the DX community will be crucial, especially being able to null interfering signals to a greater depth than happens now. The need to drop interference below the noise threshold is critical to being able to hear DX. One area that seems to be under-researched is the ability to null groundwave while allowing skywave to be heard. Nulling in a vertical plane, as well as the horizontal. Aiming antennas upwards at some angle, or perhaps vertically stacking yagi antennas and using something like the Bolin phase box may work."

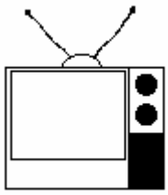
Doug Smith adds this: "How quickly can the industry swing to all-digital? It looks like TV will take 13-14 years. (1996-2009/2010) But TV has the advantage of cable and satellite operators downconverting digital signals for us. People own fewer TVs and since they're rarely used portable, cable/satellite/external STBs are practical. You won't use an external converter with your Walkman or the radio in your 2002 Ford. (even in TV we have yet to see what kind of ruckus we raise when we turn off the analog transmitters!)

I would think it would take *at least* 15 years for radio to transition to all-digital and quite likely much longer. "

The best scenario we see is for all analog radio to quickly pull the plug and go HD. If that happened we'd all have to get new radios, but the adjacent channels would open up clear again and FM Dxers could go back to DXing, but in HD. But that isn't about to happen.

All IBOC radios available now are hybrid sets and hybrid sets use the digital sidebands. And depending on the acceptance (or non acceptance) of HD, hybrid mode may be around for ten years or more, which means that this chaos on the FM band may be here for a long time to come (unless HD completely flops). Meanwhile, FM DXing takes a big hit in some parts of the country.

A couple of years ago we had a membership in the upper 270s. Now we are in the low 260s. All DX clubs are in the same condition and IBOC is not helping us. Whatever happens, rejection or acceptance, should happen quickly. The longer this takes, the worse off the hobby will be.



TV News

Douglas E. Smith
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http://www.w9wi.com

January 2006

DROP-DEAD DATE FOR ANALOG SET! See end of column...

Abbreviations:

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

CANADA:

British Columbia:

Revelstoke	*11*	*NEW*	*NS 50w, to relay CBUT 2*
Vancouver	***58***	***CBUT-DT***	***NW 30.5kw/615m***

Manitoba:

Winnipeg	35	CIIT-TV	XG; new coordinates unknown

New Brunswick:

St. Andrews	***26***	***CHCT-TV***	***NS, 100w/39m, 45-04-54/67-03-36***

USA:

Alabama:

Berry	51	WSFG-LP	PR<11.9kw, 33-41-33/87-49-45
Decatur	35	W56DA	QR from ch. 56, 150kw, 34-36-21/ 86-58-25, CL from Acton, TN dismissed
Florence	***14***	***WHDF-DT***	***NW 1000kw/431m***
Jasper	51	W66CN	QR from ch. 66, 7kw, 33-50-42/ 87-18-26 dismissed

Arizona:

Phoenix	***17***	***KPHO-DT***	***NW 1000kw/507m***
Phoenix	42	KVPA-LP	PR>25kw, 33-20-03/ 112-03-38
Safford	15, 21	KZOL-LP, K21GC	XG 32-39-01/ 109-50-53 (both channels)

Arkansas:

Forrest City	23	K59FB	QR from ch. 59, CL from Batesville dismissed
Fort Smith	33	K52FJ	QC from ch. 52, 23.2kw, 35-18-09/ 93-45-40
Jonesburo	33	K46EM	QR from ch. 46, CL from Batesville dismissed (spelling error, should be Jonesboro)
Searcy	26	K69GT	QR from ch. 69, CL from Batesville dismissed
Searcy	43	K54GT	QC from ch. 54, 150kw

California:

Bakersfield	31	KBTF-CA	Telefutura // KTFB-LP 4
Fort Dick	36	K28CU	QC from ch. 28
Fresno	22	KGMC-CA	Azteca // KMSG-55, KFAZ-8, KPMC-42
Inyokern	6	K06OL	QG from K61AJ, 3kw, 35-26-10/ 117-48-56
Lancaster	24	KTAV-LP	PC<8.7kw, 34-32-50/ 118-12-58
Los Angeles	25	KNET-LP	PG>2.8kw, 34-12-46/ 118-03-42
Mariposa	38	K38JC	QG from K27GZ, 2.8kw
Merced-Mariposa	17	KMPH-CA	PC<500w, 37-33-33/ 120-04-29
Monterey	27	K27IE	QC from K53DT, 22.1kw
Redding	42	KQSX-LP	NW 13.5kw, 40-53-12/

			122-31-19; PR<270w, 41-21-12/ 122-15-35
Sacramento	38	K38GE	QC from K61DW, 31kw, 38-34-50/ 121-29-33
Sacramento	47	KSTV-LP	QR from ch. 60, 50kw dismissed
San Bernardino	64	KSGA-LP	QC from ch. 59, 64.4kw, 34-01-20/ 117-17-46
San Jose	**11**	**KNTV**	**XC 37-41-07/ 122-26-01, 316kw/392m**
Santa Barbara	46	K46GC	OFF
Simi Valley	55	K55KD	PR>9.98kw, 34-14-38/ 118-40-23; CL from Oxnard
Stockton	***62***	***KTFK-DT***	***PC<195kw/935m***
Tulare	27	KFRE-CA	OFF
Ventura	17	KIMG-LP	QG from ch. 23, 9.83kw
Colorado:			
Basalt	9	K09AG	XR 39-21-11/ 107-05-34; XG
Cortez	6	K06JF	PC>1.16kw, 37-19-32/ 108-14-55
Crystal	40	K40IO	QG from K58AA, 500w, 39-25-24/ 107-22-32
Denver	36	KDVT-LP	PG>150kw, 39-23-07/ 105-02-52; PR<35kw
Greeley	***45***	***NEW-DT***	***open auction 64***
Lake George	29	K29GZ	QG from K58FY, 1.2kw
Parlin-Doyleville	36	K36GQ	NW 50w, 38-30-22/ 106-40-47
Pueblo	**48**	**NEW**	**open auction 64**
Redstone	18	K18GD	XC 39-14-20/ 107-13-02
Florida:			
Apalachicola	***3***	***NEW-DT***	***open auction 64***
Key West	***3***	***WDLP-DT***	***NW 1kw/54m***
Key West	39	W39AC	PR>400w
Miami	*44*	*WHDT-LP*	*Converted to digital, 15kw*
Naples	16	W16CJ	QG from W56DW, 77.3kw
Ocala	29	W29AB	FC to WKMG-6 (CBS)
Palm Beach	43	WTCN-CA	FC to WB, LMA'd by WTVX-34
Rock Harbor	64	W64AN	PG>25kw
Georgia:			
Dublin	35	W35BB	PG>150kw, 32-31-26/82-55-21
Waycross	45	W45CU	QG from W54CW, 19.8kw
Idaho:			
Malad City	27, 33	K46IM, K44AD	QR from chs. 46/44, 1.6kw
Soda Springs	33, 35,	K33HO, K35HD,	NW 1.14kw (chs. 33, 35, 39, 49, 51)
	39, 41, 43, 45, 47, 49, 51	K39GZ, K41GK, K43GP, K45GG, K47HF, K49HU, K51HM	1.19kw (chs. 41, 43, 45, 47), 42-37-48/ 111-41-00
Illinois:			
Quincy	69	W69EO	QG from W53BP, 150kw, 40-14-10/ 91-03-35
Iowa:			
Ames	**34**	**KEFB**	**NW 87.1kw/150m, 41-58-49/ 93-44-23; CC for NS**
Ottumwa	23, 25, 27	K23CI, K25DE, K27CV	PR<740w, 40-55-45/92-23-03 (all 3 channels)
Kansas:			
Derby	***46***	***NEW-DT***	***open auction 64***
Hays	**7**	**KBSH-TV**	**PG<112kw**
Independence	50	K50JG	QG from K54GC, 19kw
Topeka	**22**	**NEW**	**open auction 64**
Topeka	***28***	***KSNT-DT***	***NW 16kw/320m***
Kentucky:			
Glasgow	60	WKUW-LP	NW 6.9kw, 36-57-34/86-00-08
Lexington	***42***	***WKLE-DT***	***PG 45.8kw/258m***
Lexington	25	W24BT	QR from ch. 24, CL from Talbert dismissed
Louisville	**49**	**WDRB**	**PR>390m**
Louisville	***49***	***WDRB-DT***	***NW 1000kw/374m***
Louisiana:			
Alexandria	45	K45IY	QG from K64FT, 7.8kw
Alexandria	27	KWCE-LP	XR 31-18-24/ 92-24-12
Lafayette	52	K57GK	QR from ch. 57, CL from Alexandria dismissed
Lake Charles	38	K38EG	PR>150kw, 30-16-45/93-14-45, CL from Alexandria dismissed
New Orleans	51	W65DE	QR from ch. 65, CL from Meridian, MS dismissed
Maine:			
Skowhegan	4	WGCI-LP	PC>300w, 44-42-46/69-43-38; from no offset to minus
Michigan:			
Ann Arbor	48	W48BZ	PR>10kw, 42-16-41/83-44-41, CL from Sault Ste. Marie dismissed
Battle Creek	49	W21BS	QR from ch. 21, CL from Houghton Lake dismissed
Big Rapids	44	W18CB	QR from ch. 18, CL from Houghton Lake dismissed
Flint	**16**	**WSMH-DT**	**PR<19.3kw/348m,**

			43-13-31/84-04-33
Jackson	22	W24CG	QR from ch. 24, CL from Houghton Lake dismissed
Muskegon	26	W67DN	QR from ch. 67, CL from Houghton Lake dismissed
Minnesota:			
Bemidji	28	K28DD	PG>16kw
Duluth	**10**	**WDIO-TV**	**PC<299m, 46-47-15/92-07-21**
Duluth	**27**	**NEW**	**open auction 64**
St. James	*32*	*K32GX-D*	*Converted to digital, 40w, 44-06-25/94-35-44*
Willmar	28	K28IF	QC from K27CK, 1kw
Mississippi:			
Jackson	***9***	***WLBT-DT***	***NW 7kw/393m, 32-12-49/90-22-56***
Jackson	10	WBMS-CA	XC 32-12-47/ 90-22-54
Jackson	**51**	**NEW**	**closed auction 64 (5 applicants) (4 other applications dismissed)**
Natchez	27	W27CX	QG from W59DK, 16.3kw
Missouri:			
Joplin	26	KOZJ	XR 37-04-37/ 94-32-15, drop DA
Osage Beach	**49**	**NEW**	**open auction 64**
St. Louis	**24**	**KNLC**	**PR 1148kw/396m, 38-21-40/90-32-55**
St. Louis	28	KEFN-CA	QC from ch. 62, 50kw
Montana:			
Bozeman	40	KJCX-LP	FC: sold by TBN
Glendive	***10***	***KXGN-DT***	***NS 30kw/138m, 47-02-39/ 104-40-53***
Great Falls	50	KBGF-LP	NW 50kw, 47-32-19/ 111-15-41 (KTVH-12, NBC)
Whitehall	40	K40HL	NW 370w, 45-55-15/ 112-01-15
Nebraska:			
Lexington	**3, 26**	**KLNE, KLNE-DT**	**OFF due to plane crash**
Norfolk	21	K21HS	QG from K52ES, 1.9kw
Omaha	**42**	**KPTM**	**PC<4800kw, 41-04-14/96-13-33**
Nevada:			
Elko	19	K19FZ	QC from K52CF
Winnemucca	43	KPMP-LP	QG from ch. 2, 33.9kw, 41-00-40/ 117-46-04
New Jersey:			
Wildwood	**40**	**WMGM-TV**	**PR>955kw/112m**
New Mexico:			
Albuquerque	25	KQDF-LP	PR>150kw, 35-12-50/ 106-27-01; PG
Albuquerque	39	KTEL-LP	QG from ch. 53, 71.6kw
Albuquerque	47	K47JZ	QG from K56FB, 50kw
Clovis	2	K02PW	FC; sold to local church
Farmington	21	K21AX	PG>9.88kw, 36-40-17/ 108-13-53; from no offset to zero
Lordsburg	14	K14LO	QC from K63DU
Portales	46	K46IN	QG from K62EX, 5kw
New York:			
New York	42	WKOB-LP	QC from ch. 53, 50kw, 40-42-19/ 74-00-34
Rochester	***58***	***WHEC-DT***	***NW 415kw/135m***
North Carolina:			
Edenton	**2, 20**	**WUND-TV & DT**	**CL changed from Columbia**
North Dakota:			
Grand Forks	17	K17HG	NW 9.4kw, 47-57-52/97-01-46
Oklahoma:			
Grove	48	KELF-LP	QC from ch. 43, 9.69kw
Muskogee	25	K25GJ	PC>11.2kw, 35-41-48/95-18-26
Tahlequah	30	K30IX	QG from K52GX, 10kw
Tulsa	29	KTZT-LP	FC; sold to Daystar
Oregon:			
Bend	**51**	**NEW**	**open auction 64**
Cottage Grove	22, 42, 40, 46, 20, 48	K69AV, K56DK, K54CL, K58CT, K52CV, K60DO	QR from chs. 69, 56, 54, 58, 52, 1kw
Eugene	49	KAMK-LP	QR from ch. 53, 56.3kw, 44-00-11/ 123-06-48 dismissed
Florence	32, 35, 40, 43, 51	K54DG, K56DL, K58CW, K60DQ, K52DO	QR from chs. 54, 56, 58, 60, 52, 15kw
Grants Pass	36	K36HL	QC from K59DU, 1.1kw, 42-24-43/ 123-16-54
La Pine	5	K05JV	PC>350w
London Springs	27,3 3, 35, 43	K53FJ, K57GW, K55HE, K59FS	QR from chs. 53/55/57/59
Portland	42	KPXG-LP	QG from ch. 54, 100kw
Riley	19	K19GC	QC from K05HO, 5.5kw
Pennsylvania:			
Erie	**35**	**WSEE-TV**	***FC; adds UPN to CBS***
Johnstown	***34***	***WJAC-DT***	***PC>1000kw/386m***
Mansfield	20	W20CP	QG from W63AB, 1kw
Scranton	***13***	***WYOU-DT***	***NW 30kw/471m***
Stroudsburg	26	W26DE	QG from W66AL

Towanda	15	W15CO	QG from W69CE, 690w
Wilkes-Barre	***11***	***WBRE-DT***	***NW 30kw/471m, 41-10-58/75-52-26 (same tower as co-owned WYOU)***
South Carolina:			
Charleston	**36**	**WMMP**	**PC 1000kw/583m, 32-56-24/79-41-45**
Greenville	47	W31BU	QR from ch. 31, CL from Talbert, KY dismissed
Myrtle Beach	41	W41DA	QG from W49AN, 50kw, 33-35-28/ 79-02-55
Spartanburg	51	WSQY-LP	QC from ch. 66, 10kw, 34-56-29/ 82-24-41
South Dakota:			
Brookings	***18***	***KESD-DT***	***PC>127kw***
Lowry	***15***	***KQSD-DT***	***PC>82kw***
Martin	***23***	***KZSD-DT***	***PC>129kw, drops DA***
Tennessee:			
Belle Meade	55	W52CZ	QR from ch. 52, CL from Jackson dismissed
Columbia	34	W69DB	QR from ch. 69, CL from Acton dismissed
Cookeville	***52***	***WCTE-DT***	***NW 27.73kw/412***
Knoxville	58	W16BI	QR from ch. 16, CL from Talbert, KY dismissed
Texas:			
Beaumont	19	K55GT	QR from ch. 55, from Alexandria, LA dismissed
El Paso	***15***	***KFOX-DT***	***NW 1000kw/602m***
Harlingen	52	KTIZ-LP	FC? sold to Univision
Houston	21	KVQT-LP	PC<50kw, 29-34-15/95-30-37
Killeen	*31*	*KPLE-LP*	*req. flash-cut to DTV, 15kw*
La Feria	30	KFTN-LP	FC? sold to Univision
Laredo	47	KLMV-LP	QR from ch. 68, 150kw
Lubbock	31	K67HQ	QR from ch. 67
Lubbock	67	K67HQ	NW 10kw, 33-35-05/ 101-50-54
McAllen	32, 67	KLIA-LP, KSFE-LP	FC? sold to Univision
Quanah	27, 29, 31, 33	K27HM, K29FR, K31HC, K33HG	NW 750w, 34-12-41/99-44-05 (all 4 channels)
Victoria	17	KMOL-LP	FC to NBC
Victoria	**31**	**NEW**	**open auction 64**
Victoria	41	KXTS-LP	FC to UPN
Utah:			
Blanding & Monticello	47	K47JI	NW 350w, 37-50-22/ 109-27-42 (KUED-7 or KUEN-9)
Brian Head	35	K35HG	NW 3.2kw, 37-38-18/ 113-01-52
Mount Pleasant	48	K48IL	NW 1.8kw, 39-32-22/ 111-23-17
Tooele	65	K64FZ	QC from ch. 64
Tropic & Cannonville	29	K29GJ	NW 600w, 37-42-41/ 112-04-39 (KSTU)
Virgin	29	K29GY	QG from K64BE, 4.23kw, 37-13-45/ 113-13-45
Vermont:			
Windsor	21	W21CN	QG from W22CS, 6.65kw
Virginia:			
Danville	40	WYAT-LP	QG from ch. 55, 70kw, 36-42-00/ 79-51-07
Fairfax	6	W06CJ	QG from W42BE, 3kw, 38-53-45/ 77-08-08
Washington:			
Medical Lake	***51***	***NEW-DT***	***open auction 64***
Spokane	39	KHBA-LP	QG from ch. 52, 11.5kw
Spokane	43	K14IF	QC from ch. 14, 2.2kw, 47-34-45/ 117-17-51
West Virginia:			
Charleston	21	WOWB-LP	QC from ch. 53, 25kw, 38-22-34/ 81-39-24
Charleston	21	W26BK	QR from ch. 26, CL from Talbert, KY dismissed
Huntington	21	W69ED	QR from ch. 69, CL from Talbert, KY dismissed
Wisconsin:			
Beaver Dam	31	W48BY	QR from ch. 48, CL from Ludington, MI dismissed
Beaver Dam	56	W34BZ	QR from ch. 34, CL from Ludington, MI dismissed
Janesville	29	W29DC	QG from W65EE, 21.5kw
Waupaca	36	W36DH	QG from W66DC, 29.8kw
Wyoming:			
Greybull	50	K50JC	QC from K56GY, 44-24-47/ 107-59-49
Rawlins	51	K51IZ	QG from K56AV, 990w
Sheridan	***13***	***KSGW-DT***	***NW 50kw/372m***

Thanks to Bill Hale, Dennis Smith, Dave Sinclair, Ken Simon, Matt Sittel, and an anonymous contributor in Florida for information appearing elsewhere in this month's column...

Well, the big news this month... is that Congress has set a drop-dead date for analog TV.

The House and Senate had proposed similar bills bringing an end to analog TV either on the last day of 2008, or on April 17, 2009. (reportedly, the day after the end of the NCAA college basketball championships...)

The week before Christmas, the two houses agreed on ***Feb. 17, 2009*** as the end date. The comprimise legislation passed the House 212-206 and was expected to pass the Senate later in the day. The vote is not on a standalone bill, but on attaching the analog end date as part of a much larger budget bill. Commenters seem confident President Bush will sign the budget legislation.

Congress also appropriated $990,000,000 to provide digital-to-analog converters for the more than 17,000,000 American households that still rely on over-the-air reception. The money will allow households to request up to two $40 vouchers for converter boxes. As much as 10% of this money may be spent on administrative expenses and publicity.

Strangely enough.. the House had proposed allotting $1,500,000,000 for this subsidy; the Senate proposed $3,000,000,000; and they comprimised on $990,000,000... I guess math works differently in Congress<grin>! Seriously, Congress expects to come out ahead on the deal, believing that the auction of channels 52-69 will bring between $10,000,000,000 and $20,000,000,000 in revenue to the government.

The FCC has set a number of channel auctions for early this year. Most of them are "open auctions", meaning any qualified applicant may bid. However, channel 51 in Jackson, Miss. is a "closed auction" with bidding limited to five specified applicants.

Some of the auctions indicate NTSC channels while others indicate DTV. Even on those channels that indicate NTSC, the winning applicants will be free to build DTV stations instead. Since the auction process will likely be completed only a year or two before the final demise of NTSC, it seems likely all of these stations will be built as DTV. Note one of the auctions involves channel 3 in Florida.

SATELLITE NEWS

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Greetings and welcome to 2006. Not too many deletions this time around, but that will change in the coming months - hopefully they will involve only a change in format to digital/Digicipher. Now to the changes and additions.
AMC 7 at 137 West - All Denver channels have been deleted and are available only on Dish.
Satcom C4 (now AMC 10 at 134 West - most of the following are additions unless otherwise noted:-
250 - Cine Latino
251 - Cine Mexicano
450 - unknown Spanish
550 - Canal 52
580 - CNN Espanol
630 - Home and Garden TV West
650 - Discovery Espanol
651 - History Espanol
660 - Toon Disney En Espanol
661 - unknown Spanish
700 - Delete EyeNet and change to 801
802 - MTV Spanish
Galaxy 4 KuBand:-
400 - ADD - ESPN College
431 - Delete News World International and relocate to 581
580 - Bloomberg Business
Starz/Encore ANALOGUE ONLY feeds will soon be dropped
CNN services will go to Digital/Digicipher SOON
SciFi Channel will also soon drop analogue and be Digital/Digicipher
That's all for this time around - more to come as it happens. See you in 30.
'73's

FM NEWS
from the WTFDA

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JAN 2006

• Due to time and space constraints as well as a recent illness, this month's FM News will be shorter than normal. However, everything of importance is still included. A few states/provinces with no recent changes (Connecticut, Delaware, District of Columbia, Nebraska, Newfoundland, Puerto Rico, and Vermont) have been omitted from this report while U.S. Virgin Islands and Yukon have been specially included this month with changes.

• Update from December: Deborah Tate has been elected to the FCC and Michael Copps reinstated on Dec. 23.

• As promised last month to supplement recent Arbitron ratings, the first-ever released BBM ratings are included.

• ABBREVIATIONS NOTE: Some additional abbreviations to keep in mind this month include: **CSN** (Calvary Satellite Network - a Christian network based at KAWZ 89.9 Twin Falls, ID); **ROA** (request of applicant); and **(aux)** (auxiliary (backup) transmitter).

BBM Canada Major Market FM Ratings: Survey 4 2005

CALGARY		**MONTRÉAL FRANCO**		**REGINA**	
105.1 CKRY	13.7%	105.7 CFGL	12.8%	104.9 CFWF	15.1%
096.9 CKIS	11.5%	099.9 CKFM	12.3%	098.9 CIZL	13.1%
EDMONTON		**OTTAWA ANGLO**		**TORONTO**	
103.9 CISN	11.2%	100.3 CJMJ	11.8%	104.5 CHUM	9.1%
104.9 CFMG	9.5%	106.9 CKQB	9.7%	098.1 CHFI	9.0%
HALIFAX		**OTTAWA FRANCO**		**VANCOUVER**	
100.1 CIOO	24.4%	094.9 CIMF	26.9%	103.5 CHQM	8.8%
104.3 CFRQ	18.0%	104.1 CKTF	18.4%	096.9 CKLG	7.3%
MONTRÉAL ANGLO		**QUÉBEC**		**WINNIPEG**	
092.5 CFQR	17.9%	107.5 CITF	15.0%	104.1 CFQX	10.1%
095.9 CJFM	17.2%	098.1 CHOI	14.0%	103.1 CKMM	8.8%

INDEX OF 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-C5	change in status to that FM license class
DA	directional antenna
DE	station has been deleted
FC	format change
GA	granted amendment to 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 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 change occurred
QG	frequency change granted
QR	frequency change requested
RA	silent station 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 the air
XA	dismissed amendment to FM allocations
XC	transmitter site change occurred
XG	transmitter site change granted

UNITED STATES and CANADA

Alabama / AL

Hobson City 95.5 WHMA-FM / PC 530w/332m, 33-37-38/85-53-25; CL from Ashland

Munford 92.7 WTDR / PG 250w/481m, 33-29-06/85-48-32; CL from Talladega

Sheffield 89.9 WAKD / PG>12kw-V

Alaska / AK

Anchorage 89.9 NEW / NS (Anchorage School District)

Alberta / AB

Medicine Hat FM NEW / AF; call issued for further applications

Arizona / AZ

Bisbee 96.1 KBRP-LP / PG ?w/137m, 31-26-31/109-54-50

Coolidge 89.9 KCOO / FC; sold to K-Love

Fountain Hills 89.1 KLVK / PR>29.97kw/703m, 33-35-33/112-34-49 dismissed

Mammoth 88.1 KLTU / PR>1.5kw-V

Mayer 98.3 KKLD / PR>41kw/843m, 34-14-03/112-22-01; CL from Prescott Valley

Phoenix 89.5 KBAQ / PR 30kw/474m, 33-19-58/112-03-53 dismissed

Tucson 89.1 KUAZ-FM / PC>1.6kw/187m, 32-12-53/111-00-21

Yuma	88.9 KAWC-FM / PG 2.4kw/33m, 32-41-23/114-30-01

Arkansas / AR

Gould	102.5 KAFN / PG<54m, 33-58-11/91-32-58
Hot Springs	105.9 KLAZ / PG 100kw/299m, 34-19-55/92-39-55
Hot Springs	105.9 KLAZ / XG 34-19-55/92-39-55 rescinded, returned to pending
Hot Springs Vil.	92.9 KVRE / PC>25kw/100m
Huntsville	99.5 KAKS / PR>13.8kw
Murfreesboro	99.5 KMTB / PG 25kw/80m, 34-00-41/93-52-03
Nashville	105.5 KNAS / PG>6kw/62m, 34-00-41/93-52-03
Texarkana	104.7 KTOY / PC>3.1kw/138m, 33-25-45/94-07-11

British Columbia / BC

Hornby Island	96.5 CHFR-FM / QG from 91.5
Kelowna	91.1 NEW / AF 47.8w/-33m, religious

California / CA

Alpine	107.9 KRLY-LP / NW ?w/249m, 32-51-09/116-44-28
Arroyo Grande	103.7 KWOL-LP / NW 100w/-13m, 35-07-27/120-34-59
Bakersfield	103.5 KRHM-LP / NW 100w/24m, 35-16-02/119-01-49
Borrego Sps.	99.3 KKJD-LP / NW 100w/-223m, 33-14-39/116-22-30
Chester	98.9 KWLU / PG<12kw/740m
Chester	98.9 KWLU / PR<12kw/740m
Chico	107.1 KQIP-LP / NW 100w/-20m, 39-43-46/121-48-25
City of Angels	95.9 KBYN / PA from Arnold
East Sonora	89.5 KARQ / NW 1.3kw/507m, 38-03-46/120-14-45 (K-Love)
Eureka	98.1 KMKE-LP / NW 100w/-6m, 40-47-29/124-10-27
Guerneville	95.1 KGGV-LP / NW 100w/-95m, 38-30-32/122-59-44
Laytonville	90.3 KLAI / PG>500w-V/741m (to drop H)
Los Angeles	104.3 KBIG-FM / AF 54kw/883m, 34-13-42/118-01-01 (aux) dismissed ROA
Modesto	107.9 KPSR-LP / NW ?w/50m, 37-38-31/120-59-49
Mojave	98.9 NEW / GA
Mountain Pass	99.7 KHYZ / PG 50kw/150m, 35-28-12/115-28-43
Mt. Shasta	107.9 KMJC-FM / PC>20kw/249m, 41-13-37/122-14-23
Nevada City	93.3 KYRR-LP / NW ?w/109m, 39-18-57/120-56-29
Occidental	107.3 KOWS-LP / NW ?w/197m, 38-24-15/122-58-44
Oxnard	101.5 KOCC-LP / NW 100w/1m, 34-11-55/119-09-16
Paradise	101.3 KRGR-LP / NW ?w/131m, 39-45-12/121-37-07
Pasadena	106.7 KROQ-FM / NW 6.5kw/204m, 34-09-50/118-11-46 (aux)
Pt. Reyes Station	90.5 KWMR / PR>230w/328m
Prunedale	89.7 KLVM / PG>520w
San Diego	106.5 KLNV / AF 530w/562m, 32-41-48/116-56-10 (aux)
San Diego	107.5 KHHS-LP / NW ?w/48m, 32-52-40/117-12-44
Santa Maria	89.7 KHFR / NW 2.45kw/569m, 34-54-37/120-11-08 (Family R.)
Shasta Lake	93.9 KIHP-LP / NW ?w/179m, 40-45-00/122-18-10
Sunnyvale	104.9 KCNL / PR>-24m
Trona	97.3 NEW / GA from 98.9
Ukiah	105.1 KMEC-LP / NW 100w/-181m, 39-09-15/123-12-24
Visalia	101.5 KVLP-LP / NW 100w/26m, 36-20-32/119-17-01
Yuba City	104.7 KCYC-LP / NW 100w/16m, 39-06-03/121-37-04
Yucca Valley	97.1 KJSM-LP / PG 136m, 34-05-56/116-23-30; NW

Colorado / CO

Brush	106.3 KPRB / PG>25kw/80m, 40-10-33/103-29-49
Carbondale	90.5 KVOV / NW 450w/775m, 39-25-08/107-22-10 (Public R. of Colo.)
Colona	89.9 KTMH / NW 4kw/498m, 38-23-15/107-40-31
Eaton	88.9 KLCQ / FC? sold by K-Love
Grand Junction	89.5 KPRN / PC>19.83kw/402m
Greenwood Vil.	102.3 KCUV-FM / PC<64m, 39-39-55/104-51-38; CL from Strasburg
Gypsum	91.3 KLRY / NW 110w-H/10w-V/859m, 39-46-30/106-50-45 (K-Love)
Kremmling	106.3 KZMV / PC 50kw/150m, 40-07-12/106-14-13
Loveland	102.5 KTRR / PC 17kw/234m, 40-38-31/104-49-03
Security	105.5 KSKX / PG>1.65kw/676m
Steamboat Sps.	88.5 KTAH / FC; sold to KUNC
Walsenburg	101.3 NEW / NS 95.5kw/305m, 37-47-20/104-29-12

Florida / FL

Cross City	88.5 WWLC / PR>100kw/103m, 29-31-35/83-14-17
Fruit Cove	94.1 WSOS-FM / GA from St. Augustine
Gainesville	107.7 WPZM-LP / PG 52m
Greenville	90.3 WYJC / NW 330w-V/56m, 30-23-56/83-39-24
Lafayette	99.9 WEGT / PG>91m, 30-29-38/84-13-57
Lecanto	88.3 WLMS / PC 4.1kw/73m, 28-53-01/82-31-21 (Diocese of St. Petersburg)
Marco	91.7 WMKO / PC 6.9kw/113m
Miami	99.1 WEDR / AF 40kw/214m (aux)
Miami	99.1 WEDR / NS 40kw/214m (aux)
Ocala	100.7 WJND-LP / program test authority reinstated after suspension for failing to respond to inquiry
Pensacola	101.5 WTKX-FM / PG>417m, 30-35-16/87-33-13
St. Marks	91.1 WUJC / NW 7kw/95m, 30-08-32/83-54-58 (CSN)
Stock Island	89.1 NEW / AF dismissed
Tampa	88.5 WMNF / PR 6.65kw/469m, 27-49-10/82-15-39
Tampa	90.5 WBVM / AF 2kw/294m (aux)
Tampa	90.5 WBVM / NS 2kw/294m (aux)
Tampa	90.5 WBVM / NW 2kw/294m (aux)
Tampa	90.5 WBVM / PC<77kw/294m, 27-50-53/82-15-48
Titusville	98.1 WNUE-FM / PC 100kw/145m, 28-50-52/80-51-50; NW 100kw/139m (aux)
Titusville	98.1 WNUE-FM / XG 28-50-52/80-51-50

Georgia / GA

Boynton	103.7 WBFC-LP / PR 4w/156m, 34-55-35/85-05-45 dismissed
Boynton	103.7 WBFC-LP / PR>156m, 34-55-35/85-05-45
College Park	100.5 WWWQ / PC 12.5kw/298m, 33-45-34/84-23-19
Folkston	89.3 WECC-FM / PC>30kw/149m
Gainesville	106.7 WYAY / NW 55kw/478m (aux)
Gainesville	106.7 WYAY / PC 77kw/505m, 33-52-02/83-49-44
Greenville	104.1 WALR-FM / GA from LaGrange
Nashville	95.3 WJYF / PC>29kw
Omega	107.5 WTIF-FM / PC>4kw
Savannah	88.1 WLXP / PC>5.5kw/104m, 32-03-48/81-02-56
Springfield	93.1 WEAS-FM / XC 32-02-45/81-20-27; CL from Savannah
Statenville	97.5 WHLJ / NS 1.5kw/57m (aux)
Swainsboro	100.5 WXRS-FM / PG>25kw/84m
Waverly Hall	95.7 WKZJ / GA from Greenville, class C3 to A
Wrightsville	107.9 WDBN / PR>25kw

Hawai'i / HI

Honolulu	89.3 KIPO / PG>26kw/529m, 21-20-12/157-49-03
Kealakekua	101.5 KAOY / PC 6.5kw/909m, 19-43-15/155-55-16
Wahiawa	103.5 KHAI / FC; sold to K-Love

Idaho / ID

Pocatello	90.3 KZJB / NW 910w/314m, 42-51-46/112-31-03 (CSN)

Illinois / IL

Belvidere	104.9 WXRX / NS 3.46kw/107m (aux)
Bloomington	103.3 WEWT-LP / NW 23w/62m, 40-29-21/89-00-23
Champaign	94.5 WLRW / NS 17.5kw/124m (aux)
Champaign	94.5 WLRW / PC>138m
Heyworth	97.9 WBBE / NW 5.4kw/105m, 40-27-08/88-57-48
Ottawa	88.9 WWGN / PC<1.4kw/148m, 41-18-05/88-57-11
Pekin	104.9 WXCL / XR 40-38-34/89-32-38
Salem	91.3 WSLE / NW 770w/47m, 38-37-34/88-56-41 (AFR)
St. Anne	106.5 NEW / NS 1.95kw/141m, 41-00-20/87-41-42
Urbana	104.5 WRFU-LP / NW 100w/20m, 40-06-41/88-12-25

Indiana / IN

Brazil	92.7 WSDM-FM / QC from 97.7
Delphi	102.9 WXXB / NW 3.7kw/127m (aux)
Fishers	93.9 WISG / NW 500w/133m, 39-48-01/86-04-39 (aux)
Greenfield	88.1 WFCI / PA from 89.5, from Franklin denied
Indianapolis	103.3 WRZX / NW 4.76kw/227m, 39-46-11/86-09-26 (aux)
Indianapolis	94.7 WFBQ / NW 12.9kw/227m, 39-46-11/86-09-26 (aux)
Jasper	91.7 WKJR / NW 2.6kw/84m, 38-25-23/86-49-47
Lafayette	90.7 WQSG / NW 17kw-V/100m, 40-22-14/86-30-32 (AFR)
Lowell	88.5 WTMK / NW 1.5kw/51m, 41-04-59/87-10-47 (CSN)
Madison	100.9 NEW / GA from 101.1
Morristown	100.3 WJCF / PA from 88.1 denied
Plymouth	89.3 WRXH / NW 400w/76m, 41-20-51/86-20-23 (AFR)
Richmond	101.3 WFMG / GA from class B to B1
Spencer	97.7 WCLS / QC from 92.7, 6kw/100m, 39-13-22/86-38-40

Iowa / IA

Carroll	93.7 KKRL / PC 100kw/84m, 42-02-57/94-53-03
Chariton	105.3 KELR-FM / PG 50kw/150m, 40-53-10/93-01-21
Clear Lake	103.7 KLKK / PG>100m, 43-07-15/93-11-36
Keokuk	90.9 KMDY / FC; sold to WLWJ
Perry	105.5 KDLS-FM / PG 25kw/100m, 41-43-23/94-00-27

Kansas / KS

Enterprise	90.5 KBMP / FC; sold by AFR
Independence	91.9 KARF / FC; sold by AFR
Pittsburg	89.9 KRPS / AF 14kw/243m dismissed ROA (aux)
Topeka	94.5 WIBW-FM / PR 100kw/354m, 39-01-34/95-55-01

Kentucky / KY

Corbin	88.5 WEKF / NW 21kw/152m, 37-01-13/84-23-41 (WEKU)
Erlanger	101.1 WIZF / GA from 100.9
Hodgenville	107.3 WKMO / PA from 106.3 denied
Horse Cave	106.5 WHHT / PA from 106.7 denied
Lebanon	100.9 WLSK / GA from class C3 to A
Lebanon Jct.	102.7 WAKY-FM / PA from Springfield
Lebanon Jct.	99.3 WTHX / PA from 107.3 denied
New Haven	102.7 WAKY / PA from Springfield denied
New Haven	107.3 WTHX / PA from Lebanon Junction
Salt Lick	97.7 WAXZ / PR 3kw/143m, 38-10-33/83-24-28; CL from Georgetown, OH
Springfield	100.9 WLSK / PA from class C3 to A, from Lebanon
Springfield	100.9 WLSK / PA from Lebanon denied

Louisiana / LA

Alexandria	96.9 KZMZ / PG<98kw/321m, 31-01-59/92-30-08
Dubach	97.7 KPCH / GA from class C1 to C2
Hornbeck	101.7 NEW / GA, class A
Houma	107.5 KCIL / PG>69kw
Natchitoches	97.5 KDBH-FM / GA from 97.3, class C3 to A
Natchitoches	97.5 KDBH-FM / PR<6kw
Natchitoches	97.5 KDBH-FM / QG from 97.3, 6kw; 73.203(a) waived
New Orleans	98.5 WYLD-FM / PC>97.8kw/300m
Oil City	101.1 KRMD / GA from Shreveport
Shreveport	91.3 KSCL / PR 2.6kw/56m, 32-28-51/93-43-51

Maine / ME

Howland	103.9 WVOM / NW 450w/315m, 44-39-31/68-36-17 (aux)
Oakland	88.9 WMDR-FM / NW 600w-V/175m, 44-42-48/69-43-39

Manitoba / MB

Winnipeg	104.7 NEW / AF 10kw/206m, 49-45-20/97-07-52, ethnic
Winnipeg	106.3 NEW / AF 897w/88m, ethnic (African)
Winnipeg	106.3 CIJA-FM / AF 897w/88m, 49-53-13/97-08-24, ethnic (African) (replaces unknown temporary sta.)

Maryland / MD

Cambridge	94.3 WINX-FM / PA from class A to B1, CL from St. Michaels, denied, but FCC indicated a B1 upgrade could be approved without a city-of-license change.
Cambridge	94.3 WINX-FM / PR>21.6kw/107m dismissed
Newark	94.9 NEW / GA, class A (instead of 94.5 as originally requested)
Stockton	94.3 NEW / PA, class A, denied
Westminster	100.7 WZBA / PG 25kw/210m, 39-26-50/76-46-48

Massachusetts / MA

Brockton	97.7 WILD-FM / PG 1.7kw/173m, 42-12-42/71-06-51
Greenfield	107.9 WLPV-LP / NW 100w/-11m, 42-36-28/72-35-57
Holyoke	104.9 WREA-LP / NW 48w/43m, 42-11-15/72-38-30
Newburyport	91.7 WNEF / PC>1kw

Michigan / MI

Atlanta	104.3 NEW / PA, class C3, dismissed
Augusta	90.9 980810MB / AF dismissed (AFR)
Benton Harbor	105.3 WVBH-LP / PR<19m, 42-06-33/86-26-30
Benton Harbor	105.3 WVBH-LP / PG<19m, 42-06-33/86-26-30
Benton Harbor	96.5 WBHC-LP / NW 100w/16m, 42-06-55/86-27-13
Caseville	101.3 NEW / PA, class A, counter-proposal to 105.7, withdrawn
Caseville	105.7 NEW / PA, class A, withdrawn
Grand Ledge	92.9 WJZL / QR from 92.7, 4.6kw/114m, 42-43-58/84-33-13; CL from Charlotte
Grand Rapids	89.9 WAYG / PG 4kw/74m
Harbor Beach	99.1 NEW / PA, class A, withdrawn

Harrisville	93.1 NEW / PA, class A, dismissed
Lapeer	103.1 WQUS / PC 2.6kw/104m, 43-04-43/83-11-24
Lexington	99.1 NEW / GA, class A, counter-proposal to Harbor Beach
Muskegon	103.7 WUVS-LP / PC<26m
Pigeon	101.3 NEW / GA, class A, counter-proposal to Caseville 101.3
Presque Isle	93.3 NEW / PA, class A, dismissed
Rogers City	96.7 WVXA / PC>42kw/162m
Three Oaks	106.7 WRHC-LP / NW ?w/41m, 41-48-04/86-36-52
Vanderbilt	92.5 WFDX / PA from Atlanta dismissed, would delete only operating station there.
West Branch	105.5 WBMI / XG 44-17-57/84-15-54

Minnesota / MN

Bemidji	92.3 KBJI-LP / NW ?w/37m, 47-33-21/94-48-04
Crookston	97.1 KYCK / PR>113m, 47-49-20/96-49-13
E. Grand Forks	104.3 KZLT-FM / PR>140m, 47-48-49/96-55-48
Grand Marais	88.7 WMLS / NW 6kw/194m, 47-46-04/90-20-47 (MN Public Radio)
Grand Portage	96.9 NEW / GA, class C0
Virginia	99.9 WUSZ / PC 100kw/162m, 47-22-24/93-00-48 (sharing antenna w/WTBX 93.9)

Mississippi / MS

Forest	91.7 WSQH / FC; sold to AFR
Forest	91.7 WSQH / NW 15kw/145m, 32-23-57/89-05-02 (AFR)
Gulfport	96.7 WUJM / PR 4.27kw/119m, 30-27-31/89-04-46
Natchez	95.1 WQNZ / PC>317m
Ocean Springs	103.1 WOSM / PG>100kw/204m, 30-36-21/88-38-51
Tylertown	107.3 WFCG / PG 2.2kw/168m, 31-04-39/90-04-46
Yazoo City	89.5 WYAZ / NW 25kw-V/158m, 32-48-04/89-56-32 (AFR)

Missouri / MO

Clayton	90.3 KWUR / PC<29m, 38-38-55/90-18-28
Eminence	103.1 NEW / PA, class C3, dismissed in favour of 104.1A
Eminence	104.1 NEW / GA, class A
Lebanon	103.7 KJEL / GA from class C to C0
Linn	97.5 NEW / GA from 103.1
Malta Bend	103.9 KRLI / PG>12kw
Moberly	104.3 KZZT / AF 28.9kw/82m, 39-27-10/92-21-58 (aux)
Potosi	97.7 KHZR / GA from class C3 to C2
Rolla	103.1 KDAA / GA from 97.5

Montana / MT

Butte	88.1 KFRD / QC from 88.3, 850w
Columbia Falls	95.9 KKMT / PR 53.5kw/711m dismissed ROA
Helena	90.1 KHLV / NW 3.5kw-V/202m, 46-46-07/112-01-21 (K-Love) (has some H power but less than 5 watts. H antenna is 5m lower than V...)
Joliet	105.9 NEW / PG 100kw/134m, 45-39-31/108-34-14
Missoula	94.9 KYSS-FM / PG>63kw/729m, 47-01-57/113-59-30
Poplar	96.9 KPLR-LP / NW ?w/165m, 48-17-28/105-15-09 (Poplar Schools)
Whitefish	105.1 KWOL-FM / NW 62kw/733m, 48-30-43/114-22-13

Nevada / NV

Elko	94.5 KOYT / NW 36kw/463m, 40-55-18/115-50-58
Hawthorne	90.1 KQMC / NW 480w-V/957m, 38-27-28/118-45-52
Mesquite	88.5 KEKL / PG 30kw/563m, 36-36-04/114-35-06

New Brunswick / NB

Amherst	99.1 CITA-FM-2 / NS 50w
Moncton	105.9 CITA-FM / PG> (new facilities unknown)
Saint John	103.5 CFHA-FM / PG>, XG, new facilities not given
Sussex	107.3 CITA-FM-1 / NS 48w

New Hampshire / NH

Campton	105.7 WLKC / PC>622m
Claremont	106.1 WHDQ / PC>1.6kw
Mt. Washington	94.9 WHOM / NW 20.5kw/1160m (aux)

New Jersey / NJ

Belvidere	107.1 WWYY / PR 1.05kw/230m, 40-56-56/75-09-29
Burlington	97.5 WTHK / PC<13kw/130m, 40-11-22/74-50-47
Dover	105.5 WDHA-FM / PC>1kw
Manahawkin	100.1 WJRZ-FM / PC>1.7kw
Medford Lakes	90.5 WVBV / NW 21kw-V/138m, 39-33-20/74-44-48
Newark	105.9 WCAA / AF 25kw/99m, 40-49-35/74-04-34 (aux)
Newark	105.9 WCAA / NS 25kw/99m, 40-49-35/74-04-34 (aux)

New Mexico / NM

Chama	96.1 KZRM / PG>25kw/92m
Dexter	96.1 NEW / NS 50kw/150m, 33-23-55/104-22-30
Socorro	102.1 NEW / NS

New York / NY

Albion	102.1 WJCA / FC; sold to WJFM
Auburn	106.9 WPHR-FM / AF 500w/284m, 42-48-05/76-26-14 (aux)
Dannemora	97.9 NEW / NS 18kw/253m, 44-46-30/73-36-48
Honeoye Falls	95.1 WFXF / AF 2kw/135m (aux)
Jamestown	94.1 WIHR-LP / NW ?w/84m, 42-05-42/79-14-38
Johnson City	101.7 WLTB / PG 580w/312m, 42-03-22/75-56-39
New York	101.9 WQCD / NS 6.2kw/408m, 40-44-54/73-59-10 (aux)
New York	98.7 WRKS / NS 6.2kw/408m, 40-44-54/73-59-10 (aux)
Newport	106.1 WKUY-LP / QC from 105.9, 58m, 43-14-42/74-59-50
Rochester	100.5 WVOR-FM / AF 2kw/135m (aux)
Rochester	100.5 WVOR-FM / NS 2kw/135m (aux)
Rochester	91.5 WXXI-FM / AF 4.4kw/130m (aux)
Watertown	90.1 WWJS / FC; sold to K-Love

North Carolina / NC

Dallas	91.7 WSGE / PC>6kw/260m, 35-24-26/81-07-48
Wilmington	89.7 WDVV / PG>13.5kw-V/106m

North Dakota / ND

Grand Forks	101.3 KOBT-LP / NW 100w/28m, 47-53-12/97-02-20

Nova Scotia / NS

Halifax	89.7 CKRH-FM / AF 1.925kw-H/218m, 44-39-03/63-39-28, French community (replaces temporary st.?)
Halifax	89.9 CHNS / QR from AM 960, 100kw-H/224m, 44-39-03/63-39-28

Ohio / OH

Archbold	89.5 WBCY / PC<96m, 41-28-59/84-16-58
Beavercreek	103.9 WXEG / NW 1.5kw/133m, 39-43-36/84-12-23 (aux)
Belpre	91.9 WLKP / PR>5.2kw
Bowling Green	93.5 WRQN / PR>7kw

Cincinnati	101.9 WKRQ / AF 16kw/190m (aux)
Cincinnati	101.9 WKRQ / NS 16kw/190m (aux)
Cincinnati	101.9 WKRQ / NW 16kw/190m (aux)
Eden	88.7 980406MC / AF dismissed
Hamilton	103.5 WGRR / NW 6.1kw/232m (aux)
Harrison	104.3 WNLT / NW 6kw/88m (aux)
Lancaster	90.9 WFCO / PC>1.2kw/78m
Norwood	100.3 WIFE / GA from class B to A, CL from Connersville, Ind.
South Webster	94.9 WSNA / FC; sold to K-Love

Oklahoma / OK

Atoka	102.1 KHKC-FM / PR 3.38kw/135m dismissed (for second time; had been dismissed once & then reinstated)
Frederick	95.9 KYBE / PR>25kw/53m, 34-18-16/99-04-42
Grandfield	89.9 KWKL / PG>45kw
Holdenville	100.9 NEW / GA, class A
Pauls Valley	101.1 NEW / PA, class A, counterproposal to Holdenville 265, denied because proposed site wouldn't cover the community
Sapulpa	107.7 KPOP-LP / NW ?w/40m, 36-00-46/96-06-42
Tulsa	107.9 KJZT-LP / NW 76w/34m, 36-04-03/95-55-41

Ontario / ON

Chatham	89.3 NEW / AF 16.7kw/182m, 42-27-00/82-05-00, religious
Hamilton/Burl.	94.7 CIWV-FM / PG>21.4kw
Little Current	102.1 CJTK-FM-n / NS, 1.3kw, to relay Sudbury contemporary Christian station
Toronto	103.9 NEW / AF 50w/132m, 43-42-20/79-23-44, BLGT (gay/lesbian) oriented st. w/adcon/pop music; co-owned w/2nd adjacent CIDC 103.5
Toronto	98.7 NEW / AF 1kw/277m, 43-38-56/79-22-55, Caribbean/African oriented station

Oregon / OR

Ashland	101.9 KCMX-FM / PC>448m, 42-17-55/122-44-53
Ashland	101.9 KCMX-FM / PG>448m, 42-17-55/122-44-53
Cottage Grove	100.5 KCGR / PC>10.5kw/154m, 43-45-40/123-02-07
Gleneden Beach	97.5 KSHL / PG<14kw/259m, 44-45-24/124-02-53
Medford	93.7 KTMT-FM / PC<27kw/980m, 42-04-52/122-43-09
Medford	93.7 KTMT-FM / PG<980m, 42-04-52/122-43-09
Portland	93.9 KPDQ-FM / QG from 93.7, 50kw
Veneta	105.5 KEUG / PR>12.5kw dismissed

Pennsylvania / PA

McConnellsburg	88.7 WWCF / NW 10w/364m, 39-54-58/77-57-25
Palmyra	92.1 WWKL / PG 1.5kw/183m, 40-23-28/76-43-31
Philadelphia	98.1 WOGL / NW 9.6kw/338m, 40-02-30/75-14-11 (aux)
Philadelphia	98.1 WOGL / PC 9.6kw/338m, 40-02-30/75-14-11
Pittsburgh	99.7 WSHH / PG 15.5kw/274m

Prince Edward Island / PE

St. Edward	97.5 NEW / NS 1.88kw-H/108m, 46-53-34/64-08-56, // CBAF-FM-15, Première Chaîn (CBC network)
Urbainville	106.9 NEW / NS 173w/121m, 46-27-38/64-03-14, // CBAF-FM-15, Première Chaîn (CBC network)

Québec / QC

Chibougamau	96.9 NEW / AF withdrawn at request of applicant

Rhode Island / RI

Coventry	91.5 WCVY / signs time-sharing agreement with "Educational Radio for the Public of the New Millennium", applicant for new station. Will share time - WCVY operating 2pm to 10pm on school days, new station using all other hours.

Saskatchewan / SK

Moose Jaw	101.9 NEW / AF 46w/13m, religious
Moose Jaw	103.9 NEW / AF 100kw/258m, adcon
Moose Jaw	99.9 CKVY-FM / AF 100kw/204m, 50-35-44/105-04-09, adcon
Moose Jaw	99.9 NEW / AF 100kw/204m, adcon
Tisdale	103.1 NEW / AF withdrawn, will be heard later

South Carolina / SC

Clearwater	98.3 WSLT / AF 6.2kw/148m (aux)
Clearwater	98.3 WSLT / NS 6.2kw/148m (aux)
Clearwater	98.3 WSLT / NW 6.2kw/148m (aux)
Dillon	91.1 WWHW / CX, DE ROA
Gray Court	100.5 WSSL-FM / PC>381m, 34-34-18/82-06-44
Lexington	98.5 WLXC / PC<99m, 33-53-59/81-13-30
Parris Island	103.1 WGZO / PR 9.5kw/127m, 32-13-36/80-50-53

South Dakota / SD

Ipswich	107.7 NEW / NS
Rapid City	89.9 KQFR / NW 2.3kw/562m, 44-19-42/103-50-03 (Family Radio)

Tennessee / TN

Alamo	93.1 WWGM / XR 35-43-28/89-03-35 (suspect correction only)
Belle Meade	97.1 WRQQ / PA from Goodlettsville denied
Chattanooga	96.5 WDOD-FM / GA from class C to C0
Goodlettsville	92.1 WQQK / PA from Hendersonville denied
Halls Crossrds.	96.7 WXJB / GA from 96.5, from Harrogate
Hendersonville	99.7 WWTN / PA from Manchester denied
Lake City	96.7 NEW / PA denied in favour of Halls Crossroads
Lewisburg	94.3 WJJM-FM / PG>6kw
Millersville	106.7 WNFN / PA from class A to C3, from Belle Meade denied
Smyrna	94.1 WFFH / PG>138m
Union City	88.9 WTNN / NW 860w/190m, 36-24-48/89-08-59 (K-Love)

Texas / TX

Abilene	92.5 KULL / PR 27.5kw/202m, 32-16-35/99-35-38
Austin	90.5 KUT / AF 6.3kw/183m (aux)
Austin	90.5 KUT / NS 6.3kw/183m (aux)
Beaumont	97.5 KFNC / AF 4kw/156m, 29-46-06/94-01-04 (aux)
Beaumont	97.5 KFNC / NS 4kw/156m, 29-46-06/95-01-04 (aux)
Brookshire	107.9 KQLC-LP / PC>38m
Carrizo Springs	93.5 NEW / NS
Corpus Christi	107.9 KXVR-LP / NW ?w/31m, 27-46-44/97-36-48
Corpus Christi	95.5 KZFM / PR>451m dismissed ROA
Dallas	90.1 KERA / AF 31.3kw/474m, 32-32-35/96-57-32 (aux)
Dallas	90.1 KERA / NS 31.3kw/474m, 32-32-35/96-57-32 (aux)
Dallas	90.1 KERA / NW 31kw/474m, 32-32-35/96-57-32 (aux)
Gainesville	94.5 KSOC / PC>100kw
Gainesville	94.5 KSOC / PG>100kw

George West	100.9 NEW / KEPG requests deletion of vacant Class A channel
Groesbeck	107.7 NEW / PA, class A
Helotes	101.1 KONO-FM / NS 1.3kw/273m (aux)
Houston	102.9 KLTN / AF 27kw/225m, 29-45-26/95-20-19 (aux)
Houston	102.9 KLTN / NS 27kw/225m, 29-45-26/95-20-19 (aux)
Jourdanton	95.7 KLEY-FM / PR>11.23kw/316m, 28-54-57/98-39-39
Kerrville	88.7 KKER / PC>52kw/174m, 30-03-30/99-03-50
La Porte	103.7 KIOL / AF 10kw/156m, 29-46-06/95-01-04 & 100kw/555m, 29-56-09/94-30-39 (both aux)
La Porte	103.7 KIOL / NS 10kw/156m, 29-46-06/95-01-04 & 100kw/555m, 29-56-09/94-30-39 (both aux)
Lewisville	107.9 KESS-FM / NW 5kw/2m, 32-49-15/96-52-18 (aux)
Longview	107.9 NEW / GA from 97.3
Madisonville	91.5 KHML / PG>27kw
Missouri City	104.9 KPTY / AF 3.2kw/225m, 29-45-26/95-20-19 (aux)
Mt. Enterprise	94.1 NEW / GA
Nacogdoches	107.7 KTBQ / GA from class C2 to C3
Nacogdoches	107.7 KTBQ / PG<13kw/122m, 31-34-50/94-40-15
Palestine	89.1 KYFP / PR>100kw/148m
Pasadena	92.9 KKBQ-FM / NW 55kw/513m, 29-34-06/95-29-57 (aux)
Pearsall	95.3 KVWG-FM / PR>3kw/100m, 28-53-23/99-13-11
Prairie View	91.3 KPVU / AF 9.8kw/128m (aux) (use old main as aux)
Rankin	102.5 NEW / PA, class C1 dismissed, applicant withdrew interest
San Antonio	100.3 KCYY / NS 1.31kw/273m (aux)
Sanderson	102.7 NEW / GA, class C1
Silsbee	101.7 KAYD-FM / NW 110w/113m, 29-59-19/94-14-41 (aux)
Stanton	88.1 KFRI / NW 100kw/139m, 32-05-44/101-48-47 (K-Love)
Tennessee Col.	107.9 NEW / PA, class A, withdrawn
Terrell Hills	106.7 KELZ-FM / NS 6.2kw/276m (aux)
Three Rivers	100.9 NEW / Counterproposal to KEPG upgrade request, dismissed at request of applicant
Tom Bean	97.5 KLAK / PG 32kw/188m, 33-28-30/96-26-45; CL from Durant, OK
Victoria	100.9 KEPG / PA from class A to C3
Victoria	99.5 KETI-LP / NW ?w/34m, 28-48-46/96-59-45
Waskom	97.3 KQHN / GA from 107.9, CL from Oil City, LA
Waskom	97.3 KQHN / QG from 107.9, CL from Magnolia, Ark. via Oil City, La.; PG>42kw; 73.203(a) waived
Waskom	97.3 KQHN / QR from 107.9, 42kw, CL from Oil City LA (or Magnolia AR)

U.S. Virgin Islands / VI

Frederiksted	103.5 WAXJ / NW 6kw/-10m, 17-43-28/64-53-03

Utah / UT

Elsinore	97.7 KCYQ / QC from 97.5, 43kw/879m, 38-32-30/112-03-31
Price	100.1 KWSA / QR from 100.9, 3kw/41m, 39-32-42/110-48-56
St. George	106.1 KSNN / PR>100kw
Woodruff	100.7 KEGH / PR 89kw-H/647m, 40-52-16/110-59-43, CL from Brigham City

Virginia / VA

Chincoteague	94.5 NEW / GA, class A
Culpeper	89.9 WPER / PR 41kw/127m dismissed
Deltaville	92.3 WSRV / PR 4.8kw/112m
Glade Spring	100.5 NEW / PA from 102.7
Marion	102.5 WOLD-FM / PA from 100.5
Narrows	101.3 WZFM / PC>210w/366m, 37-17-54/80-48-36; petition for reconsideration of cancellation of license for remaining off the air for more than a year granted
Weber City	102.7 WVEK-FM / PA from Cumberland, KY; from class A to C3
White Stone	104.9 WNDJ / PR>100m, 37-43-26/76-23-27
Williamsburg	100.9 WYOU-LP / NW ?w/43m, 37-16-37/76-45-07
Winchester	91.3 WTRM / PC 5.6kw/427m, 39-11-02/78-23-15

Washington / WA

Bellingham	102.3 KMRE-LP / PG>-24m, 48-45-07/122-28-45
Bellingham	102.3 KMRE-LP / PR>-24m, 48-45-07/122-28-45
Long Beach	99.7 KAQX / QG from 94.3, 6kw
Seattle	100.7 KQBZ / PR>71kw/707m
Seattle	107.7 KNDD / PR>71kw/707m
Seattle	98.1 KING-FM / PR>72kw/707m
Seattle	99.9 KISW / PR>71kw/707m
Tacoma	103.7 KMTT / PR>71kw/707m
Yakima	91.9 KDNA / AF 180w/270m (aux)
Yakima	91.9 KDNA / NS 180w/270m (aux)

West Virginia / WV

Blennerhassett	88.7 981006MK / NS 9kw/114m, 39-14-06/81-53-16

Wisconsin / WI

Amery	95.7 WPCA-LP / PG 50w/42m, 45-19-02/92-20-27
Fond du Lac	91.7 WLWR / FC; sold to K-Love
Milwaukee	102.1 WLUM-FM / PG<8.8kw/257m, 43-06-42/87-55-50
Plymouth	104.5 WXER / PR<95m
Shawano	94.5 NEW-LP / NS ?w/36m, 44-46-51/88-37-52
Stevens Point	89.9 WWSP / PR>30kw/98m

Wyoming / WY

Cheyenne	106.3 KLEN / PC>6kw/99m, 41-03-09/104-49-55
Kemmerer	107.3 KAOX / PC<13.5kw
Rock Springs	99.7 KSIT / PC 100kw/493m, 41-26-00/109-07-02
Sheridan	88.1 KPRQ / NW 450w/341m, 44-37-26/107-07-02 (MT St. U - Billings)
Sheridan	88.9 KOHR / NW 500w-V/25m, 44-47-54/106-55-51 (YNOP religious)
Sheridan	89.3 KWCF / NW 1kw/293m, 44-36-10/106-55-42 (CSN)

Yukon / YK

Destruction Bay	98.1 VF2147 / PG>10w
Tsiigehtchic	90.5 NEW / AF 10w, to relay CHON 98.1 Whitehorse

Sources

Corporations:	BBM Canada
Government:	Canadian Radio-Television and Telecommunications Commission (CRTC), Federal Communications Commission (FCC)
Internet Media	FMQB

This report includes 419 changes to the FM dial.

-Chris Kadlec
FM News Editor

PHOTO-NEWS

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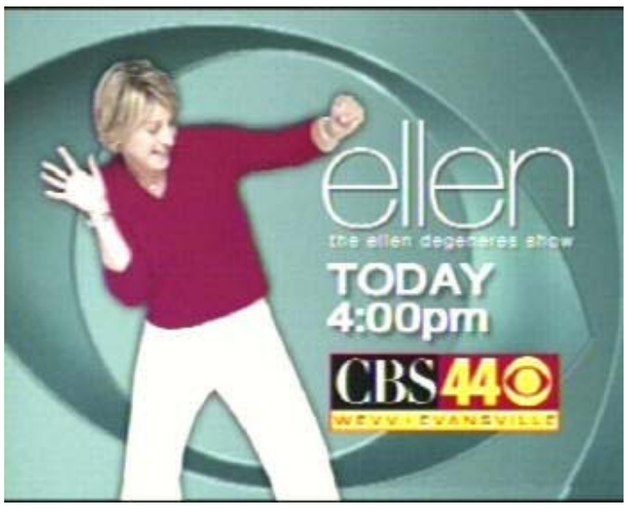
January 2006

Since this is now the digital age, I've finally brought the Photo News logo into the digital age as well with a digital camera capture. We continue with more pics from Girard Westerberg, Lexington, KY. You can see all of his DX photos and a lot more at www.dxfm.com.

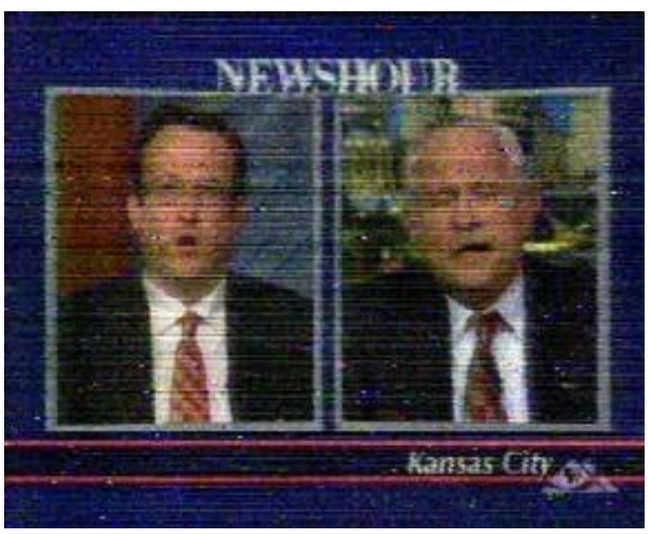


WEVV-DT-45 Evansville, IN
168 mi Tr seen 9/19/05

WDEF-DT-47 Chattanooga, TN
202 mi Tr seen 7/25/05

KBSD-6 Ensign, KS
856 mi Es seen 6/20/05

WAKA-8 Selma, AL
423 mi Tr seen 10/9/05



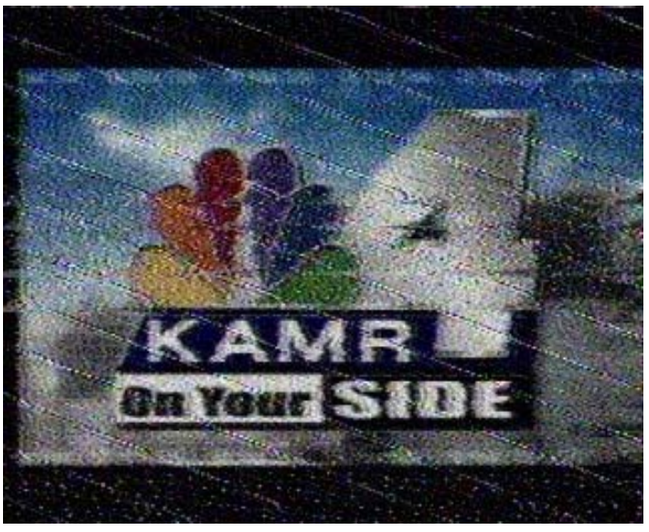
KRMA-6 Denver, CO
1121 mi Es seen 6/21/05
"Rocky Mountain PBS logo LR"

Here's more from Joe Veldhuis, of Grand Haven, MI. Joe also has a nice DX website at www.electroblog.com:8090/radio/index.shtml.

KJRH-2 Tulsa, OK
701 mi Es seen 5/28/05
@2240 ET

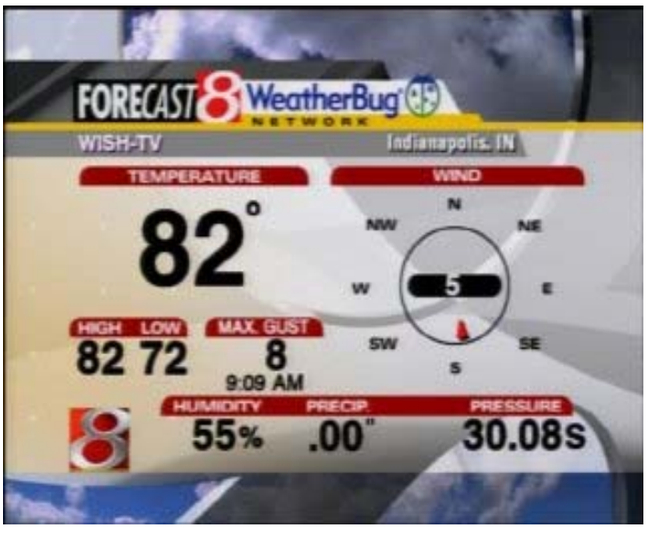
WEAR-3 Pensacola, FL
861 mi Es seen 7/31/05
@1853 ET
"ID text in sync bar at bottom"

KOTA-3 Rapid City, SD
861 mi Es seen 5/24/05
@1932 ET

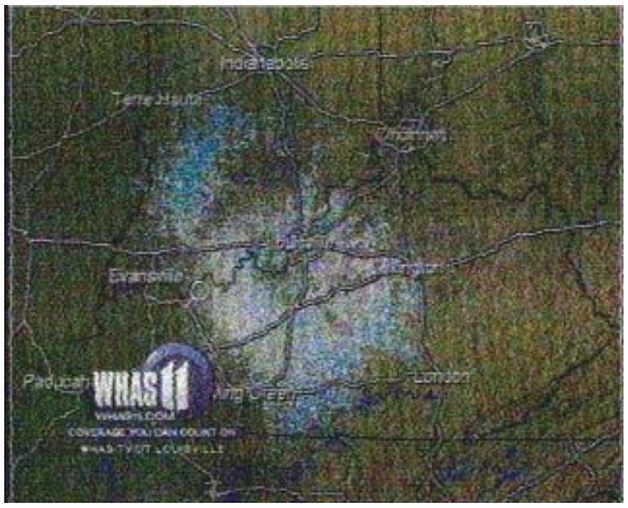


KAMR-4 Amarillo, TX
992 mi Es seen 5/20/05
@1759 ET

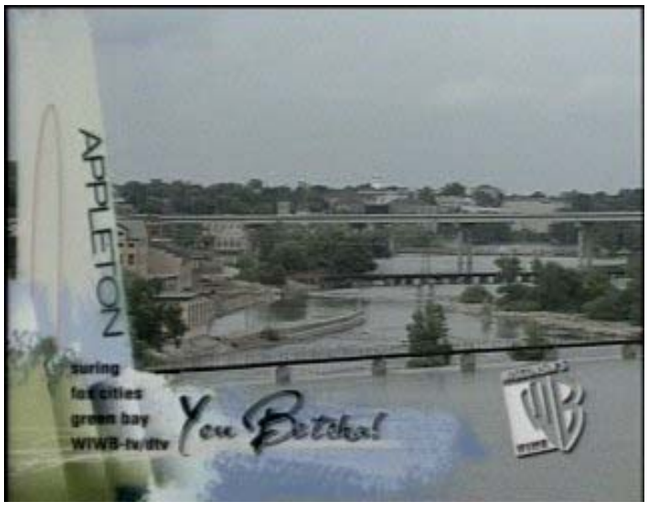
WCIV-4 Charleston, SC
779 mi Es seen 6/5/05
@1329 ET



WISH-DT-9 Indianapolis, IN
215 mi Tr seen 6/27/05
@1010 ET

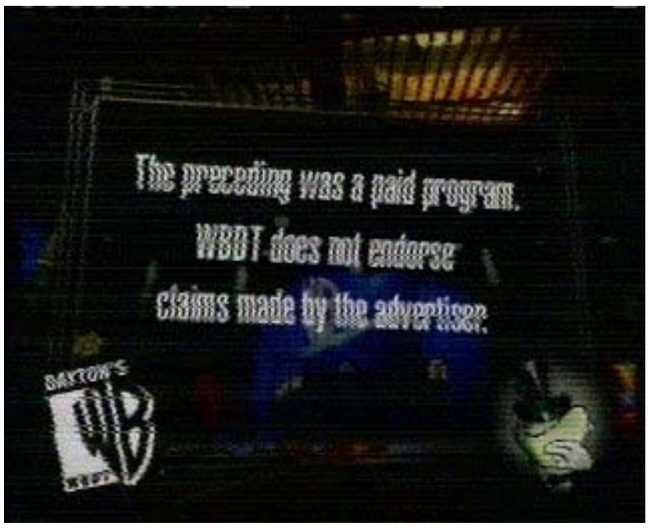


WHAS-11 Louisville, KY
321 mi Tr seen 7/24/05
@0428 ET



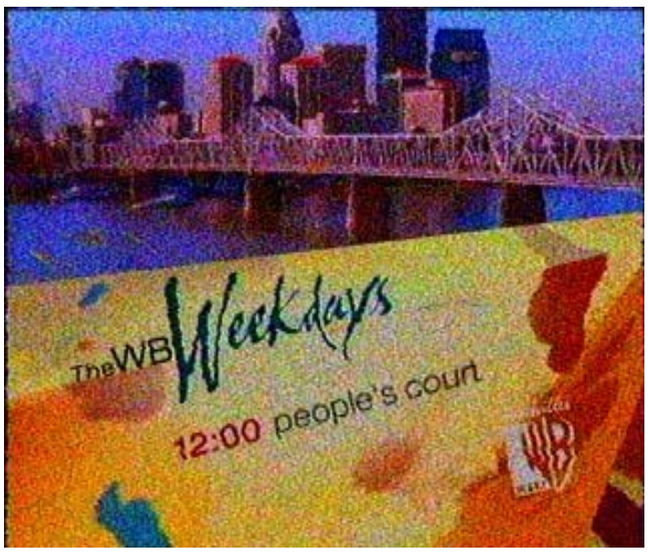
WIWB-14 Suring, WI
160 mi Tr seen 9/19/05
@0029 ET

WEWS-DT-15 Cleveland, OH
252 mi Tr seen 8/26/05
@0359 ET



WBDT-26 Springfield, OH
246 mi Tr seen 2/6/05
@0458 ET

WHWC-DT-27 Menomonie, WI
319 mi Tr seen 5/7/05
@0803 ET



WBKI-34 Campbellsville, KY
380 mi Tr seen 9/27/05
@0358 ET

More from Joe next month. 73's, Jeff

SOUTHERN FM DX

John Zondlo
4009 Driftwood Circle
Yukon, OK 73099
jzondlo@cox.net
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 2006

Fred Nordquist - 147 Travis Hill Rd – Moncks Corner, SC 29461 - nordquis@homexpressway.net.
Statistics Web Page: http://web.infoave.net/~fmjnordquist/statistics.html

Equipment: Denon TU-1500RD with 4 110khz IF Filter Mod & RDS Mgr, Ant: APS-13 at 25' AGL, CDR Rotor, CAC-11 coax lead-ins.

10/10 Gw
0756 W237AS 95.3 SC Florence, "Rock 102.9," multi-station ID 68

10/13 Tr
1316 WNCW 88.7 NC Spindale, ID, membership drive 218

10/15 Gw
2037 W206AR 89.1 SC Florence, //CSN webcast, rel 64
2225 W204BQ 88.7 SC Andrews, Sonlife //WJFM, rel 64
2225 W242AO 96.3 SC Elloree, dual frequency ID w/105.5 WLRE-LP, k
2310 W242AH 96.3 SC Sumter, //BBN webcast, rel 48

10/15 Tr
1538 WJYF 95.3 GA Nashville, "Your positive hit music station," //webcast 236

10/17 Gw
2026 W205BJ 88.9 SC Charleston, //CSN webcast, rel 29

10/18 Tr
0620 WRCM 91.9 NC Wingate, "Charlotte's #1 family friendly station," RDS PI 81CC 133
0719 WPRW 107.7 GA Martinez, "Power 107," local ads, hiphop & R&B 138
0729 WBMZ 103.7 GA Metter, local ad, "The Boomer" 134
1600 WJCT 89.9 FL Jacksonville, NPR, ID, pledge campaign 224

10/28 Tr
2120 WZBX 106.5 GA Sylvania, football, local ads 102
2159 WRBX 104.1 GA Reidsville, Gospel mx, ID 148
2255 WKXC 99.5 SC Aiken, SID, continuous k, local ad 117

10/29 Gw
1002 W240AX 95.9 SC Columbia, ID, //WYFV, rel 82

10/30 Tr
2147 WOKA 106.7 GA Douglas, k, "You are in Dixie Country 106.7" 200

10/31 Tr
0735 WYFG 91.1 SC Gaffney, BBN // webcast, rel 167
0910 WTCQ 97.7 GA Vidalia, local ad, "98-Q" 160
1613 WZLA 92.9 SC Abbeville, ad, dual city ID 151

10/31 Gw
0800 WSIM 93.7 SC Bishopville, "Kool 93.7," ID, nx, ABC Good Time Rock & Roll 82
1045 WAAW 94.7 SC Williston, Gospel music, ID, call in program, Bob & Sherry 82
2250 WYNN 106.3 SC Florence, many local ads 82

11/1 Tr
1538 WMUU 94.5 SC Greenville, classical, rel, ID 184

11/2 Gw
1035 WHLZ 100.5 SC Marion, "Wheels 100.5," k 84

11/4 Tr
2200 WETS 89.5 TN Johnson City, bluegrass mx, PRI, ID, TN #1 254
2140 WQUT 101.5 TN Johnson City, ID, local ad 254

11/5 Gw
0815 WWNQ 94.3 SC Forest Acres, k, "Country Legends 94.3" 82

11/9 Tr
0900 WPMX 102.9 GA Statesboro, ID, nx, local ads, wx 128

12/2 Tr
1217 WMIT 106.9 NC Black Mountain, ID, holiday mx, "The new 106.9 WMIT" 218

12/4 Tr
2353 WKUB 105.1 GA Blackshear, RDS PI 7119, PS=WKUB, k 192

12/5 Tr
0017 WGLF 104.1 FL Tallahassee, "Gulf 104 35 year of rock" 305

12/8 Ms
0100 WPFF 90.5 WI Sturgeon Bay, first Ms logged in SC, RDS PI 7CCB 898

Totals now at 302

6 Meter/2 Meter Amateur DX

Peter Baskind, N4LI
3225 Forest Hill-Irene Rd
Germantown, TN 38138
N4LI@ARRL.net

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6 meter and 2 meter conditions have been a good news/bad news sort of thing lately. The bad news, of course, is the quiet. There has been almost nothing unusual on the band lately via tropo or E_s. The good news is that, most likely, by the time you are reading this, we should have enjoyed some nice mid-Winter E_s, what some folks call "The Second Season."

Here in Memphis, November brought very little. I heard a few scattered sporadic-E signals, but nothing noteworthy. Hopefully, things will ramp up quickly. Quentin Davis in Indiana, WA9WME (who I worked in 2004 for the difficult short-haul grid of EM78), wrote a note with a couple of loggings. He reports a quick opening on December 4th with contacts to K0IKY/EM25 in Oklahoma and Bill, W5WVO in Albuquerque (Bill's a good guy; he and I often chat when the path from Memphis to New Mexico is strong).

Here's hoping 2006 brings you that needed grid, state, or station you have been looking for!

Loggings

Bill Smith, WA1NYV, 56 Locust Street, Douglas, MA 01516 FN42

A few short openings [in November]. Probably missed a few as they didn't last long.

5 Nov. '05

1505	W5HEZ	EM40	1522	KG4AQW	EM75
1509	KC5PIA	EM51	1536	N4JDB	EM64
1515	KE4IDW	EL96	1540	KE4WBO	EL96

6 Nov. '05

1440	KD4CMV mobile	EL89	1450	KI4EDJ	EM90

27 Nov. '05

0111	NV4I	EM92
0038	WB4GMB	EM91

Here is another card from the collection Morris Sorenson sent. This 2002 reception was a 6m station near Fairbanks, AK.

STACKING WINEGARD OFF-AIR ANTENNAS

For improved directivity, stacking antennas can significantly reduce or eliminate most types of off-air television interference.

Multiple outdoor television antenna arrays, reminiscent of the *SOs,*are making a comeback in some areas. Proper stacking of the sophisticated off-air antennas of today significantly improve reception, boosting directivity and selectivity as well as gain. Stacking eliminates a lot of reception problems found with multiple high-rise buildings and heavy users of electrical power, both of which cause television interference (TVI) problems. Typical TVI problems (ghosts, electrical noise, interfering radio signals, picture breakup) can also be caused by ground reflections, moving reflectors such as trucks and airplanes, and ignition noise. Stacked antennas will overcome many of these reception problems.

Winegard Chromstar and Prostar off-air antennas are designed to provide high gain, sharp directivity and excellent front-to-back ratio on a single VHF TV channel. These Yagi-type antennas are adaptable for stacking – horizontally and vertically. This type of antenna, the most commonly used type for television reception, "sees" electromagnetic radio waves in a manner similar to the way we see. Our eyes see in the general direction we point our head. And the antenna "sees" in the general direction in which its boom is pointed. Viewed from the top, a Yagi-type antenna resembles an arrowhead, tapering from front to rear (figure 1).

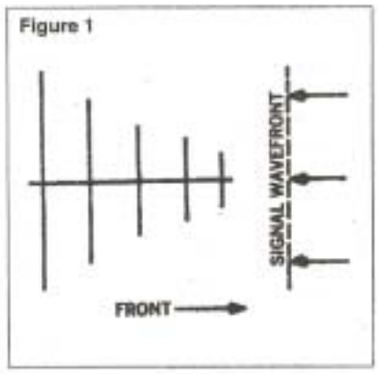


Figure 1: Top view of typical Yagi antenna.

This taper is more pronounced in broadband antennas than in single channel antennas. The arrowhead (narrow end) of the antenna should, generally, point in the direction of the signal transmitter. Ideally this should be a straight-line path, with the antenna "seeing" nothing above, below or on either side, but even the best antennas "see" undesirable signals from an angle off the axis of the antenna. These signals can cause ghosting and other interference patterns.

A Yagi-type antenna is designed with many parallel elements on a common axis, oriented toward the signal source. Length, spacing and phasing of each element in relation to others determines how voltages introduced in individual elements reinforce (add) at the antenna terminals. The elements are arranged and spaced so the signal wavefront reaches each element *sequentially* – and the voltage induced in each antenna element combines at the antenna terminals with voltages from the other elements to yield an optimized voltage which produces maximum gain over the desired bandwidth.

If the signal comes from a source *above* or *below* the horizontal plane of the antenna, *all* elements receive it at the same time instead of sequentially. Under these conditions, the combined voltage at the antenna terminals will be something less than the optimum for which the antenna was designed.

Vertical Stacking

Vertical stacking improves both gain and vertical directivity. This helps reduce airplane flutter and attendant picture roll, plus certain types of ground noise and ground reflections

Stacking two identical antennas on a common vertical mast significantly (30%) narrows the *vertical* beam-width angle. Vertically stacked antennas reject the interfering signals *above* or *below* their horizontal plane more effectively than a single antenna. It's as though they were looking through a mini-blind. Because there's nothing mounted to the side of either antenna, their horizontal vision is virtually uneffected. In the process, gain increases about *2.5* dB over that of a single antenna.

The basic principle of stacked antennas involves the difference in the time of arrival, and therefore the phase, of signals intercepted by the antenna combination. If a pair of identical Chromstar antennas are mounted one above the other a wavelength apart on a common vertical mast and are both pointed toward the signal source, any TV signals traveling horizontally and arriving from any direction will be intercepted simultaneously by both antennas. And those signals received on axis from the direction in which the antenna is pointed (figure 2B. page 2) will be the strongest.

Because the antennas are identical, the generated signal voltages arriving at the output terminals shared by the antennas will be in phase, causing them to add directly. Theoretically, there should be a 3 dB increase (double) in signal power over that of a single antenna, but because of losses in the coupler and cable, the actual gain increase will be somewhat less than 3 dB.

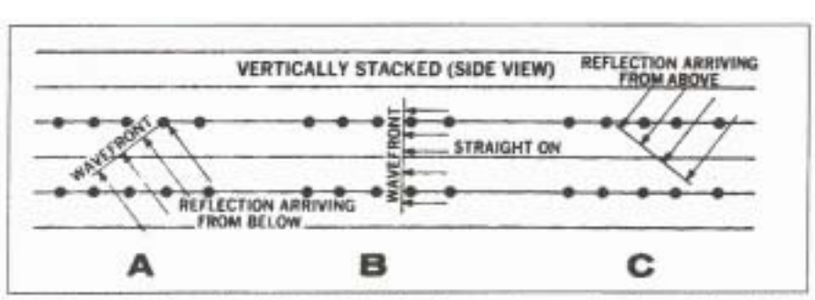


Figure 2: Side views of vertically stacked Yagi-type antennas showing relationship of antenna elements and arriving signals. (A) Signal reflected from below. (B) Signal received straight from source. (C) Signal reflected from above.

An important point to remember is that regardless of the azimuth angle between the antenna orientation and the signal source, the arriving signal will strike any given identical points on the two antennas simultaneously. If the signal is arriving from a source *above* or *below* the horizontal plane of the antenna, this is no longer true. For example, if the wavefront is from a source below the plane of the antenna (figure 2A), the signal will arrive first at the lower antenna and the signal voltage from the top antenna will lag the signal from the lower antenna. The signal voltages at the antenna output terminals will no longer be in phase, and partial cancellation will take place. The opposite is true if the signal arrives from above (figure 2C).

Figure 4

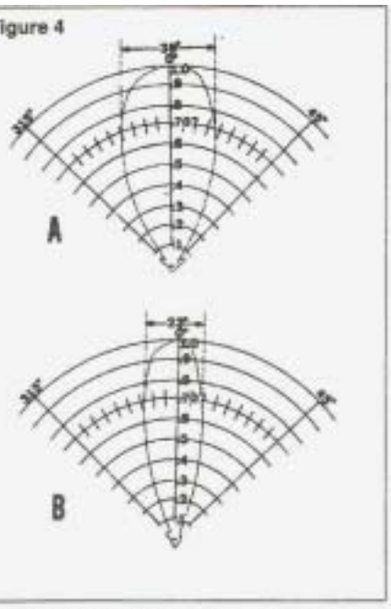


Figure 4: Polar patterns showing the effect of the horizontal stacked antennas in figure 3. (A) Pattern for a single CA-0000. (B) Narrower pattern produced by horizontally stacking two CA-0000 antennas one wavelength apart.

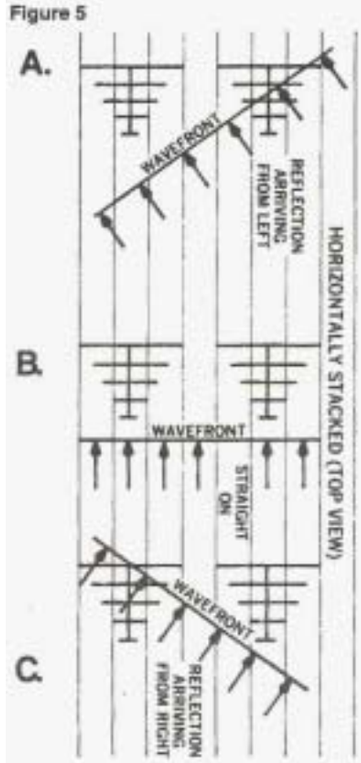
The angle of arrival and the resultant difference in arrival time causes a phase difference which reduces the magnitude of the combined voltages. You should begin to see now why two vertically stacked, identical antennas have a more restricted "vision" to signals arriving from a point above or below the horizontal plane than does a single antenna.

Horizontal Stacking

Stacking two identical antennas side by side in a horizontal plane significantly narrows the *horizontal* beamwidth angle (figure 4). This antenna combination, like a horse wearing blinders, "sees" fewer interfering signals arriving from the sides while its vision vertically is virtually unaffected. in the process, gain increases approximately *2.5* dB over that of a single antenna.

If two identical antennas are arranged side by side in a horizontal plane and the signal wavefront arrives directly from the front (figure SB), each antenna "sees" the same wave or field at the same time. if the wavefront arrives from a source above or below, the same is still true, except that the individual antennas are not operating as efficiently. However, if the wavefront arrives from one side or the other (figure 5A and C), the antenna on the side the signal is coming to will "feel" the signal *first,* causing the voltages induce in each antenna to be out of phase. This causes partial cancellation of the antenna voltages when they are combined.

Figure 5



The vertical "vision" of a horizontal stack is comparable to that of a single antenna, but its side-to-side "vision" is more restricted.

Quad Stacks

Stacking four identical antennas, two vertically and two horizontally in a rectangular or diamond pattern, restricts the vision of this combination is all directions off the axis. Called a quad stack, it "sees" as through it were looking through a tube pointed in the direction of the transmitting antenna. Gain increases approximately 4 to *5* dB over that of a single antenna.

Techniques for stacking antennas

Before putting up an antenna array, check these basic considerations that apply to dual and quad stacking.

1. Stack only identical antennas.
2. Maintain approximately one wavelength spacing (at lowest channel frequency) between antennas.
3. Cut phasing lines or connecting cables to *equal* lengths, ±1/8".
4. Length and phase of twinlead interconnecting harnesses is critical.
5. Horizontal supports should be nonmetallic.
6. Avoid running interconnecting cables horizontally.

Vertical stacking is easier than horizontal stacking simply because vertical stacks mount on the same mast and spacing is easily adjusted.

Horizontally stacked antennas also must be spaced so booms are separated by a distance equal to more than one-half wavelength of the lowest channel frequency. This spacing is needed to prevent the tips of the longest reflector elements from touching. Horizontal supports must be *nonmetallic* – cypress, redwood or treated wood 2" x 4"s are commonly used.

SPACING & CABLE LENGTHS

Channel	Vertical Spacing	Coax Length
2	145"	85.0"
3	130'	76.5"
4	120"	69.5"
5	105"	60.5"
6	100"	56.0"
7	48"	52.0"
8	46"	51.0"
9	44.5"	49.5"
10	43.5"	48.0"
11	42.25"	46.5"
12	41"	45.0"
13	40"	43.5"

Spacing

For optimum performance, stacked antennas must be properly spaced. If you do not space vertically and horizontally stacked antennas more than one-half wavelength apart, they will adversely "load" each other. Loading is caused by the elements of one antenna reradiating some of their received energy into the element of the other antenna, with consequent reinforcement and cancellation of fields and voltages. **Optimum and** minimum spacing is 0.94 and 0.60 wavelength, respectively, at the lowest frequency received. Spacing exceeding one wavelength reduces the performance of the stack. (See Winegard's Spacing & Cable Lengths Chart.)

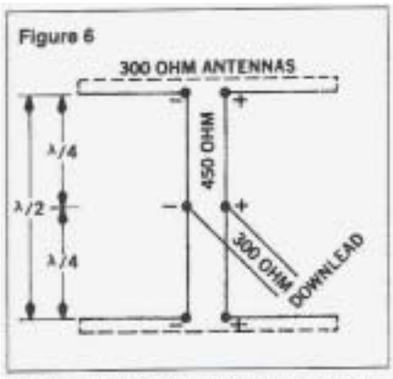


Figure 6: Harness arrangement for vertical stacking. Using a phasing harness to couple 300 ohm stacked antennas eliminates a coupler and avoids losses but can only be optimized for one channel. A harness is also susceptible to noise and is more time consuming to install. Phasing harnesses, made from balanced transmission line, must be precisely dimensioned, properly phased and carefully positioned to achieve satisfactory performance. Vertically stacked single channel 300 ohm antennas are connected in parallel using two quarter-wave lengths or 450 ohm transmission line. Phasing polarities must be strictly observed. In absence of polarity marking on antenna, consider corresponding right and left terminals on identical antennas as same polarity.

In a horizontal stack with elements tip-to-tip and the longest element, the minimum practical spacing will be some distance over .6 wavelength, to prevent the longest element of one antenna from touching the tip of the corresponding element of the other antenna. Recommended spacing is 0.94 wavelength between booms at the lowest channel involved.

Because of restrictions on space (usually height), there will be times when it is not practical to space antennas a full wavelength apart. But it should never be less than .6 wavelength. At less than .6 wavelength, performance deteriorates and advantages of stacked antennas are lost.

All parts of the antenna supporting structure should be made of wood or plastic. Horizontal metallic supporters act like antenna elements, and can cause unusual voltage/frequency effects from the antenna array. If using wooden supports subject to weather, use redwood or treated wood.

Interconnections

Connecting the antennas properly is as important as spacing and orienting them. Getting the individual voltages from each antenna to the point where they are combined without: 1) Combining out of phase, 2) Adding extraneous signals and noise through improper positioning, dimensioning and coupling of antennas, harness and/or connecting cables.

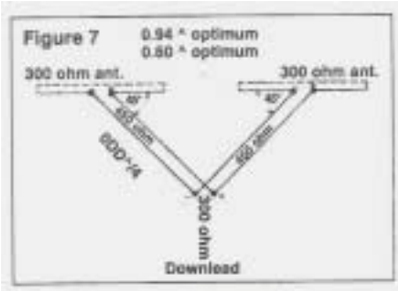


Figure 7: Harness arrangement for horizontal stacking. Two horizontally stacked, 300 ohm single-channel antennas require two equal lengths of 450 ohm balanced transmission line cut to an odd multiple of a quarter wavelength at the center frequency of the channel to be received and positioned at 45 ° to the horizontal. Phasing polarity must be strictly obseved. To connect a phasing harness, a quad stack (2 x 2) is seen as two separate vertical stacks, each preconnected and arranged in a horizontal stacked pattern. Connect the output of each vetical stack as you would each output of identical antennas in a horizontal stacked arrangement.

Antennas may be coupled by a phasing harness made from balanced transmission line (figures 6 and 7) or may be coupled with a hybrid antenna coupler (figures 8, 9, 10, p.4). Antenna couplers are simpler to hook up and are less critical and more durable than phasing harnesses. Harnesses must be cut to the precise length for a single channel frequency, kept straight and untwisted and, for horizontal stacking, must be installed and maintained at a 450 angle to the horizontal. The harness connections at the antenna and the combining point must be phased properly or the performance will be less than that from a single antenna. Along the length of any transmission line there will be voltage maximums and minimums. If the lines are to be interconnected, cut and connect them at points at which the voltages are maximum, or at odd multiples of a quarter wavelength. If the transmission lines are of different lengths, connect them at a point where their signals are in phase (multiples of a whole wavelength, longer or shorter) so the voltages will add.

Because wavelength changes with frequency, wiring harnesses are only practical for single-channel antennas. Multiple-band and wide-band antennas should always be connected with *broadband hybrid couplers.*

Antenna couplers simplify the interconnection of stacked antennas with *75* ohm coaxial cable, as shown in figure 10. Because of cable loss, cables should be kept as short as possible and of equal lengths. They can be taped to the metal boom or mast. But because cable is a metallic conductor, horizontal lengths parallel to antenna elements should be avoided; the cable shield might act as an antenna element, reradiating energy into the antenna and causing cancellation and ghosts.

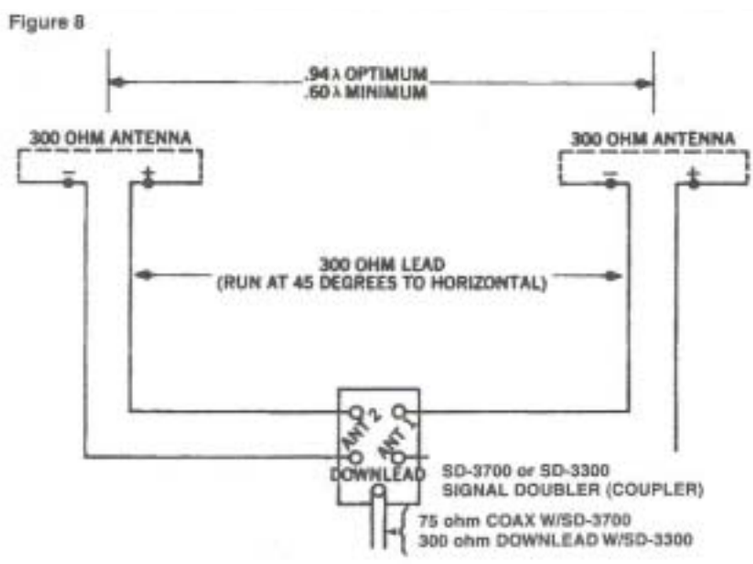
Winegard offers two different series for stacking applications: the SD signal doubler and the CC multi-set couplers. CC multi-set couplers, although designed and sold principally for coupling two TV sets to a single antenna downlead, also function well as antenna couplers.

In figure 8, SD signal doublers combine signals from any two identical 300 ohm antennas and provide either a balanced 300 ohm output (SD-3300) or a coaxial *75* ohm output (SD-3700).

Because SDs have only 300 ohm inputs, they are not recommended as highly for horizontal stacking as the CC-7870 which have *75* ohm inputs.

When connecting stacked antennas, correct phasing must be achieved or a null signal (no picture) will be produced at the coupler. If a null is observed, put a half twist in one of the 300 ohm lines to reverse the phase at the coupler terminals.

The CC-7870 channel multi-set coupler (figures 9 and 10) is preferred over SDs for coupling identical, stacked antennas. When used as an antenna coupler, the individual antennas are coupled into the “TV set” (output) terminals of the CC and the output is taken from the “antenna downlead” (input) terminal. The device simply separates or combines



signals. It doesn't know its input from its output and is only concerned with the *impedance* of the devices connected to its terminals.

Because *75* ohm coax cable is recommended for interconnecting stacked antennas and for downlead, coupler choices are CC-7 870 two set coupler (for dual stacks) and a 75 ohm four-splitter in a weatherproof housing (for quad stacks).

Cautions to be observed when coupling stacked antennas include cutting the coaxial interconnecting cables into equal lengths, observing the correct phase, and installing cables away from antenna elements.

If 300 ohm antennas are used, impedance matching transformers such as TV-2900 (figure 10) are recommended to adapt the antenna output to the *75* ohm coax cable.

When using this or some other matching transformer, you must have correct *phasing* on the *300 ohm* side. You can easily measure for continuity between the threaded (shield) portion of the coaxial connector and one conductor on the 300 ohm side. The conductor that is determined should always be connected to a corresponding right or left screw terminal on each of the identical antennas for in-phase connections, or reversed for out-of-phase connections.

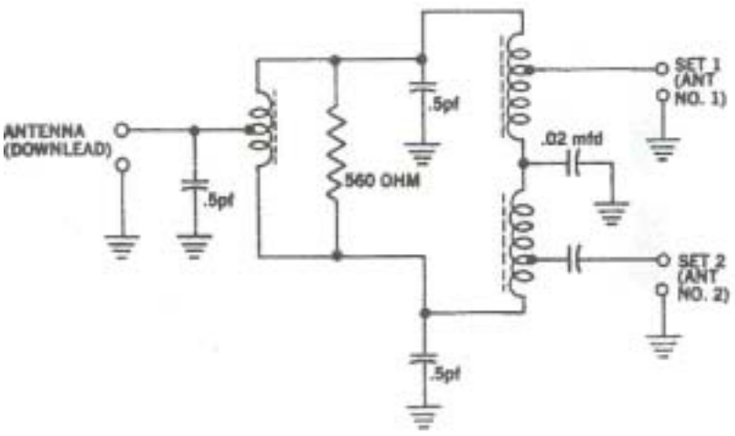


Figure 9: Photo and schematic diagram of Winegard CC-7870. This two-set coupler is designed for connecting two televisions to single download. It can also be used to combine the outputs of two stacked antennas.

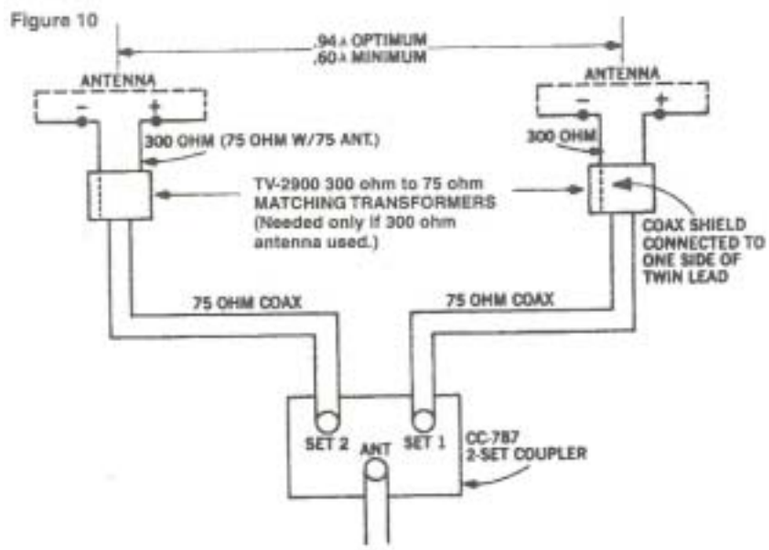


Figure 10: Method of using CC-7870 two-set coupler to combine the outputs of two horizontally stacked antennas. Coupling stacked antennas with a hybrid coupler and 75 ohm coax cable simplifies installation. Coaxial cable routed along the boom and metal supports causes no adverse effects. Phasing doesn't need to be considered except to make sure the coax shield is directly connected through the matching transformer to the corresponding antenna terminals. A simple ohm meter check on the matching transformer will show which side of the 300 ohm output lead is directly connected to the coax shield. Connecting antennas to a coupler using 300 ohm transmission line – an alternate method – does require careful attention to phasing.

Preamplifiers…

MODEL	INPUT			OUTPUT	AVERAGE GAIN		AVERAGE NOISE FIG.		MAXIMUM TOTAL INPUT# (MICROVOLTS)	
	VHF	UHF	82 CH.		VHF	UHF	VHF	UHF	VHF	UHF
AP-2870	75	75		75	17 dB	19 dB	2.9 dB	2.9 dB	110,000 µV	93,000 µv
AP-2880	75	75		75	29 dB	19 dB	2.9 dB	2.9 dB	29,000 µV	93,000 µV
AP-3700	75 or		75	75	17 dB	By-Passed	2.6 dB	N/A	110,000 µV	N/A
AP-3800	75 or		75	75	29 dB	By-Passed	2.9 dB	N/A	29,000 µV	N/A
AP-4700		75	or 75	75	By-Passed	19dB	NA	2.9dB	NA	93,000 µV
AP-4800		75	or 75	75	By-Passed	28 dB	N/A	2.7 dB	N/A	30,000µV
AP-8275			75	75	29 dB	28 dB	2.9 dB	2.8 dB	29,000 µV	30,000 µV
AP-8283			300	75	29 dB	28 dB	2.9 dB	2.8 dB	29,000 µV	30,000 µV
AP-8700			75	75	17 dB	19 dB	2.8 dB	2.8 dB	110,000 µV	93,000 µV
AP-8703			300	75	17 dB	19 dB	3.9 dB	3.9 dB	110,000 µV	93,000 µV
AP-8733	300	300		75	17 dB	19 dB	3.9 dB	3.9 dB	110,000 µV	93,000 µV
AP-8780			75	75	17 dB	28 dB	2.9 dB	2.7 dB	110,000 µV	30,000 µV
AP-8783			300	75	17 dB	28 dB	3.9 dB	3.9 dB	110,000 µV	30,000 µV
AP-8800			75	75	29 dB	19 dB	2.7 dB	2.8 dB	29,000 µV	93,000 µV
AP-8803			300	75	29 dB	19 dB	3.9 dB	3.9 dB	29,000 µV	93,000 µV
AP-8833	300	300		75	29 dB	19 dB	3.9 dB	3.9 dB	29,000 µV	93,000 µV

Output capability is stated for 7 VHF and 5 UHF channels at -46 dB cross modulation.

VERTICAL STACKING WINEGARD CHROMSTAR FM ANTENNAS

Stacking two CA-6065 FM antennas is an excellent way to increase gain, improve directivity and increase capture area.

When **gain** is an important factor, stacking FM antennas can provide enough boost in signal to establish a much better signal-to-noise ratio in the first amplifier.

Good **directivity** in an FM antenna can eliminate many reception problems such as airplane flutter, reflected signals and noise pickup from ground level sources. Vertically stacking two FM antennas can also narrow vertical beam width directivity up to 30%.

By increasing capture area of the CA-6065, fading problems of very weak signals can be eliminated. There can be up to 40% improvement (3 dB extra gain) when using more than one antenna.

For vertically stacking two Chromstar FM antennas on a tower, the following procedure allows the array to be assembled in steps as the mast is raised up out of the tower top.

Equipment required:

1. Two Chromstar FM antennas.
2. One CC-7870 coupler.
3. Two (2) pieces coax, *52"* long.
4. Masting 10' long.
5. Mount
6. Coax downlead.

Assembly instructions:

1. Unfold both antennas.
2. Install terminal board/housing.
3. Insert coax up through boot and install F-connector on coax, then attach coax to cartridge housing. Slide boot onto boot collar.
4. Mount upper antenna on mast.
5. Mount CC-7870 coupler approximately 36" below upper antenna.
6. Connect coax cable from upper antenna to "set 1" jack of coupler and tape cable to mast.
7. Connect coax cable from housing bottom for lower antenna to "set 2" jack on coupler and tape to the mast.

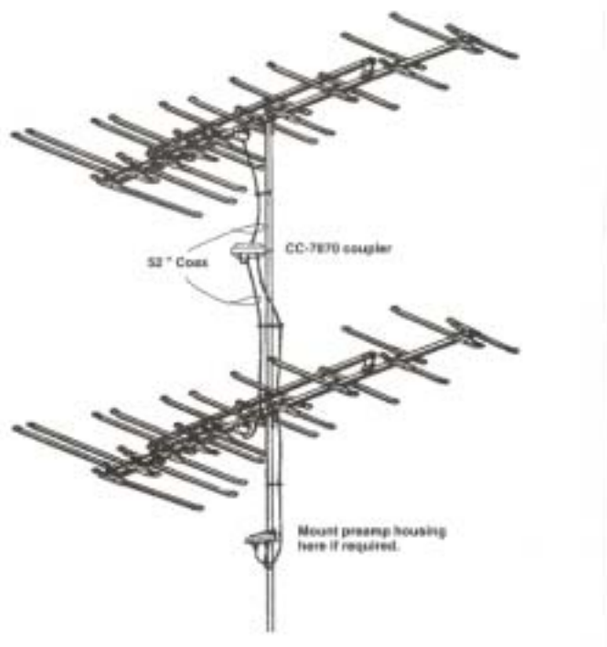
NOTE 1: If preamplifier is not required, the downlead should be connected to the "antenna" jack on coupler at this point.

NOTE 2: If a preamp is required, a third length of coax cable must be attached to "antenna" jack on coupler and taped to mast at lower antenna.

8. Mount lower antenna on mast approximately 72" below upper antenna.
9. Secure coax to mast.

This completes assembly if preamplifier is not used. **Go to step 10 if preamp is used.**

10. Mount preamplifier housing below bottom antenna.
11. Slide boot over loose end of coax cable and install connector. Attach to "antenna" jack of coupler.
12. Attach other end of coax to "input" on preamplifier.
13. Run coax downlead to "input" on power supply.
14. Hook up jumper to jack marked "To TV" and plug into power source.



Selecting preamplifier..

In metropolitan areas or where strong local TV signal is present, use **AP-3700** (FM trap out-position).

For medium to weak reception areas, or where no strong TV or FM stations are present (FM trap out position), **AP-3800.**

And now...more of

The Mailbox

CHRISTMAS E SKIP!

E skip has two seasons. The season we all know is the major season which begins around May and ends around the end of August.

The other skip season, which we either neglect, ignore of just plain forget about, is that one which occurs in late November, December and possibly into January. Sometimes winter Es never shows up; sometimes all we get is one or two weak openings but sometimes it shines!

This is being written on Christmas Day 2005, and on this day much of North America is experiencing winter Es to some extent, even into FM in some locations. One picture that just appeared on the WTFDA list today is a screen capture of WTWC-HD-2 in Tallahassee, viewed by Greg Barker in Greensburg, IN.

Congrats on a nice catch, Greg. And remember, Es doesn't stop just because it's winter.

From **Bob Cooper**: Setting aside the apparent decision to turn off USA analog(ue) in 2009, it might provide some relief to know the balance of the world is in no better shape regarding digital transition. Only the UK appears to have a precarious handle on it (2012) and their justification is the rapid take-up of what is called "FreeView" - 30 + channels of digital TV, FTA (free to air). Australia's conversion has been - is - a disaster - under 6% after four years. Sweden and Denmark claim to be doing better but they are handing out STBs willie-nillie. New Zealand continues to debate the merits of transferring everything to satellite digital rather than rebuilding several thousand (!) terrestrial analog transmitters for digital (for a country of 4 million, we have the most TV transmitters per capita in the world - because of the very rugged terrain and the frequent use of 10-100 watt translators each of which requires its own AC powered mountain top/side site). Japan, India, China - everyone is in a state of indecision. Scott is dead right - the government logic in each case is by abandoning present analog space, and selling it on the open market, all will be well at the end. What I fear is that with compression algorithms improving each month or two, that bandwidth as we know it will disappear as a commodity long before such sales are actually held. Certainly here in NZ spectrum planners retain an analog mindset about bandwidth during a period in history when data crunching into more and more efficient "packets" is improving at a logarithmic rate. An example: Our local ambulance, police and fire services have for decades all operated individual VHF-FM (160 MHz region) FM systems for two-way and for this volunteer supported area (fire, ambulance) sending alerts to supporters. Now they are combining their need into a single 160 MHz transmitter (which coincidentally is to be side mounted on our FM transmitter tower in my side yard) using digital packets. They calculate under 2% total time use meaning the same RF system will support dozens of similar transmitter-share users without priority problems since a typical fire or ambulance (10-20 word text) call alert for example takes 0.4 seconds to go to all pagers connected to their system. This is where we are all headed - data packets shared between divergent users freeing up significant chunks of spectrum worldwide.

SIGN UP/Renewal form

Name_____

Address_____Apt #_____

City_____ State/Prov___ _____Zip_____

Country_____ Interests: TV ( ) FM ( ) 30-50( ) Weather( )

email address_____

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
Make your checks/money orders payable to: WTFDA
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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