

# Vhf-Uhf DIGEST

The Official Publication of the Worldwide TV-FM DX Association

DECEMBER 1999

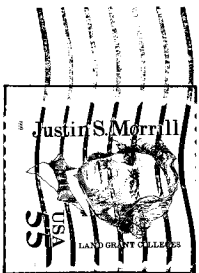
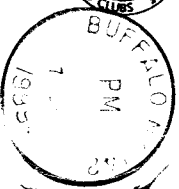
## F<sub>2</sub> SKIP RETURNS TO VHF!



## INTERCONTINENTAL TV DX OPPORTUNITIES ARE BACK...



WORLDWIDE TV-FM DX ASSOCIATION  
PO BOX 501 - SOMERSVILLE, CT 06072



OPINIONS EXPRESSED IN THIS PUBLICATION ARE THOSE OF THE INDIVIDUAL CONTRIBUTOR AND DO NOT NECESSARILY REFLECT THE VIEWS OF THE PUBLISHER OR BOARD OF DIRECTORS. WE RESERVE THE RIGHT TO EDIT MATERIAL TO MEET PUBLISHING STANDARDS, UNLESS PREVIOUSLY AGREED UPON IN WRITING. ALL MATERIAL SUBMITTED FOR PUBLICATION IN THE VHF-UHF DIGEST BECOMES THE PROPERTY OF W.T.F.D.A.

REPRODUCTION OF MATERIAL FROM THE VHF-UHF DIGEST WITHOUT PERMISSION OF W.T.F.D.A. IS PROHIBITED. INDIVIDUALS AND OTHER ORGANIZATIONS ARE GRANTED SUCH PERMISSION PROVIDING PROPER CREDIT IS GIVEN TO THE SOURCE.

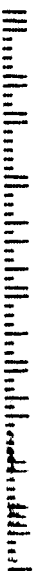
**ANNUAL DUES:** \$24/year: U.S. addresses

\$26/year\* to Canada

(payable in \$38/year\* for airmail service to all other U.S. funds) countries. (\*Payable in U.S. funds)

**first class mail**

11/2000  
BILL NOLLMAN  
11 HIDDEN OAK DR  
FARMINGTON CT 06032



## WORLDWIDE TV-FM DX ASSOCIATION

*Serving the VHF-UHF 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: TOM BRYANT, GREG CONIGLIO, BRUCE HALL, DAVE JANOWIAK, AND BILL THOMPSON.

Editor/Publisher: Bill Thompson

Circulation: Mike Bugaj Comptroller: Dave Janowiak

Editorial Staff: Tom Bryant, Greg Coniglio, Victor Frank, George W. Jensen, Jeff Kruszka, Russell Miller, Fred Nordquist, Doug Smith, Thomas J. Yingling, Jr., John Zondlo

ANARC Representative: Jim Thomas Back Issues: Dave Nieman

Original Cover Design: Harry Hayes

**FROM THE STAFF:** This column takes a holiday break. Next month, we'll bring you purchasing information for the club's long-awaited update of the 'TV STATION GUIDE'; along with WTFDA's new web address. From all the members of your Board of Directors, column editors, and other VUD contributors; best wishes for a wonderful holiday season!



### WTFDA MAILBOX

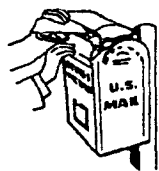
P.O. Box 501  
Somerville, CT 06072

Mike Bugaj

lkon@netcom.com

### NEXT STOP...THE YEAR 2000

Well, here we are...just a few weeks away from 2000. I'll wish everyone a Merry Christmas, a Happy Hanukah or a Happy Winter Solstice, whichever applies. We have one new member this month, and that member is **John Callerman**. John is an old-timer and rejoins after a few years absence. For renewals this month we have **Mr. Antenna Performance, Roger Gravelle, William Mitchell, Fernando Garcia, Mituhiro Hukunaga, Jeff Shultz, Chester Jaffee, Robert Delaney, George Hamer, FJ Issard, Joel Rosenberg, Ed Sirovy, Robert Fischer and Bill Nollman**. Here is a little from John Callerman. "I haven't done much AM or FM Dxing since 1984 when I got my ham license...but when I move back to Texas (after 30 years here) upon retirement in June, I plan to install a decent AM/FM setup to go along with the ham rig. The town where I'll live is Krum, just west of Denton. Preparatory to the move I'm examining the FCC transmitter site maps, the coordinates and the FCC distance and azimuth formula to see what my QRM within the first 200 miles will be." John is currently living in Mt. Vernon, IL. Also I got a short postcard from **Frank Merrill** that says that he's glad the convention date is a little later in 2000 than it was in 1999 because the odds of his attending are much greater now.

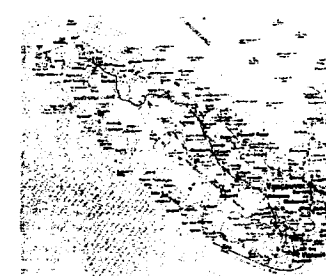


**MOVE OVER, BRUCE CARTER.** Here's something from Bill Nollman in reply to the article last month about installing ceramic filters: "Just a mailbag note. Can't find an email (address) for Bruce Carter, the guy who wrote the article on ceramic filters in the Nov '99 VUD, but one note I'd make is to pick up gold plated IC sockets and solder those into your radio, and then you can plug and unplug filters til your heart is content without burning the PCB by too much soldering/unsoldering. The gold plated contacts can be inserted over and over and over and over...believe me I've done it!"

The IC sockets are typically sold as 12, 18, 24 pin sockets and can be easily cut down to 3 pins (with some waste) with a very sharp knife. The sockets that I buy are made by a company called Augut (in MA) and can be bought at most electronic supply stores (not Radio Shack).

Also, filters by Toko are not as good quality as the ones made by Murata. Ninety-nine percent of the radios that I have opened have Murata filters as stock. I have experimented endlessly and have found the Murata filters to have better sound and less distortion. The Tokos seem to be extremely loose in their center frequency. Of course the Tokos are inexpensive and east to get, so you could simply buy a large quantity and (after installing gold sockets) experiment until you find the best ones in a batch.

**LOOKING FOR TROPO IN ALL THE RIGHT PLACES...** Mike Cherry weighs in with



his quest for Hawaiian tropo: "I have been vigilant in watching the Hawaii-mainland tropo duct and for many years now have traveled out to Pacific Rim National Park at Tofino, BC on the west coast of Vancouver Island to enjoy the beautiful coast and the killer tropo that occurs there (also referred to as Long Beach). If you study a map you will see that this location has an excellent shot at the coastlines of Washington, Oregon, northern Calif and Hawaii (and beyond). From Radar Hill in the Park (a 400 ft elevation right on the waterfront facing the Pacific) I have logged many stations in the western parts of these states - including 10w translators as far south as Coos Bay, OR (approx 430 miles). Best tropo yet from there has been reception at sea level of two Eureka, CA FM stations (585 mi)

on my Toyota truck radio with stock whip antenna. Over the years I have had Es2 from Hawaii on FM out there but never via tropo although I believe this is probable if one was there at the right time."

**ONKYO TUNER COMPARISON...** More from Neil Kazarov: "Near the front of the recent (Nov) VUD is a brief description of the benefits of my new Onkyo T4711 mod w/6 tighter filters I recently purchased from Ed Hanlon of APS. (He and Don Scott do the mods) Anyhow it is slightly more useful a DX machine than my older T4870 w/McVey filter board for a couple of reasons which I'll highlight. First of all both rx's are VERY sensitive and I can regularly listen to stuff past 250 miles out often with the 20 attenuators switched in. I have a somewhat (for NE IL) elevated QTH w/APS 13 and 14 antennas on my roof phased and sensitivity is not a problem here as it's next to impossible to aim an antenna in any direction and here dead air on any channel.

Baseline selectivity is actually a touch better on the T4870 w/McVey when one tunes right on the freq (which is all that the 4870 can do) However, by tuning .025 or .050 Mhz off freq I can effectively in most cases get better reception on adjacent channels when aimed at strong locals with the T4711. For example, it's much easier for me to listen to Lafayette IN stations next to Chicago locals at exactly the same direction on the T4711. The wide bandwidth on the 4711 has much better selectivity than the wide on the 4870. In general I prefer the audio on the 4711 as well.

I have some tighter filters to experiment with further tightening of selectivity on the 4711 but haven't yet as it seems very adequate in the few cases I need to tune .025 or .050 away and Ed warns that the audio may get choppy if I tighten too much more.

In addition, the 4711 has a better S meter than the idiot lights on the 4870 and that makes for easier phasing. I'd still prefer a good analog S-meter like my ICR7000 has. It's a shame that the ICR7000 is SO GOOD (every word from Cleveland on 61) for TV audio .. and yet stinks when compared to a great tuner for FM".

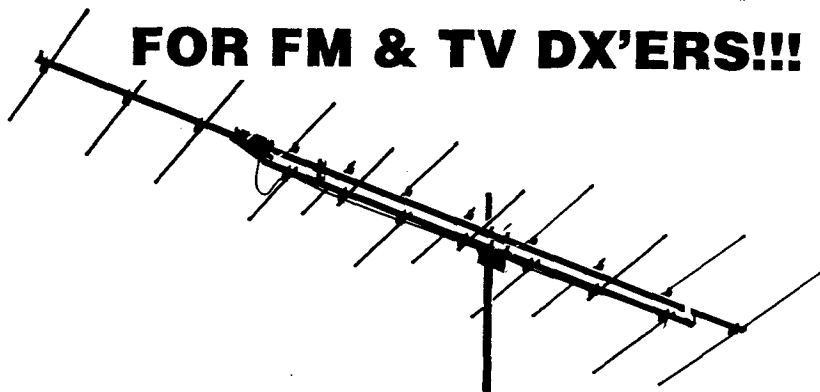
**CHEAP AND EASY F2 TV TUNER.** Here's a neat trick from Bill Hepburn. "With the F2 Season upon us...and reports of North Americans hearing video "buzz" from Australia, New Zealand & Europe..I thought I'd pass on something that I stumbled upon by accident when going through the junk in my basement. Before I start..I should mention that I already have a small cheap foreign standard PAL receiver..but it has a weird automated tuning system that starts scanning when there's no signal...not very DX friendly. Plus..my video inputs on my TV all have the dreaded and undefeatable blue screen..even though the TV tuner does not (I wouldn't have bought it if it did). Although this setup should be OK when signals are actually in...it is next to useless for monitoring for any signs of weak F2 signals or QRM..

Now the solution...I came across an old Archer (Radio Shack) Model 2A5 Cable Converter. This converter up-converts VHF & Mid-Band Cable signals up into the UHF range. It adds 557 MHz to the signals..and has a +/- 3 MHz fine tune control. I hooked it up to my antenna..and I can see Channel 2 on UHF Channel 38 (that's with the fine tune control set off to the side at +560 MHz). This makes Channel 37 show 48-54 MHz and Channel 36 show 42-48 MHz. Now I can actually "see" what is happening in those frequency ranges without the annoying blue screen. Of course, the good old neighborhood 49 MHz baby monitors can be found there...but at least I can fine tune just beneath them to check out 48 MHz.

This is an offbeat way of trying for F2 DX. If you don't have a TV receiver that tunes below 54 MHz..you may have one of these old style cable converters around that could do the trick. UHF signal bleedthrough is not a problem as nearby CITS-TV 36 is completely filtered out..so the converter has a decent lowpass filter. As an added bonus..there even seems to be an extra "kick" to the Low-VHF signals..as they appear a bit stronger than those on my regular tuner. I have no problem getting steady sync'd signals from 200-mile Channels 2 & 4 Detroit. So..sensitivity in the 42-54 MHz range shouldn't be a problem. It's also kind of neat tuning down lower..as I can both "see and hear" shortwave signals on UHF Channels 30-32. Channel 29 (0-6 MHz) is black. I also know now that other TVs/VCRs that I've fine tuned below Channel 2 didn't go low enough (perhaps only to 50 MHz). As well..I've previously tested my TV with 50 Hz vertical-sync signals and it syncs just fine with them. This might not help anyone out there..but perhaps it will. At least I have a new toy to DX with."

**LAST BUT NOT LEAST...** Allan Dunn wrote that the call letters WATD (95.9) in Marshfield, MA stand for **We're At the Dump**..the location of their transmitter. Something you always wanted to know. Also the WTFDA list is up to the mid 70s as of this date (11<sup>th</sup>). And remember, IRC chat is still groovin' along on IRCNET at 10pm Eastern Time Tuesday and Friday nights on channel #wtfdx. See you next month and write! -Mike

## W.T.F.D.A. -- THE CLUB FOR FM & TV DX'ERS!!!



# PHOTO-NEWS

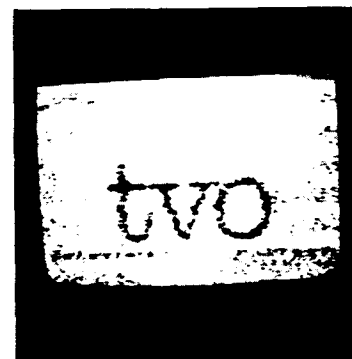
Jeff Kruszka, Editor  
5024 S. Braxton Ave.  
Baton Rouge, LA 70817  
JTKruszka@worldnet.att.net

December 1999

This month features more photos from Roy Barstow, Teaticket, MA, including Roy's first ever high-band meteor scatter ID!

**Equipment:**

VHF: CM 1110 @22 ft., Titan II amp, .875 hardline. UHF: 7' dish, RDX Labs amp, .750 hardline, 30' above ground. Sharp VCR.

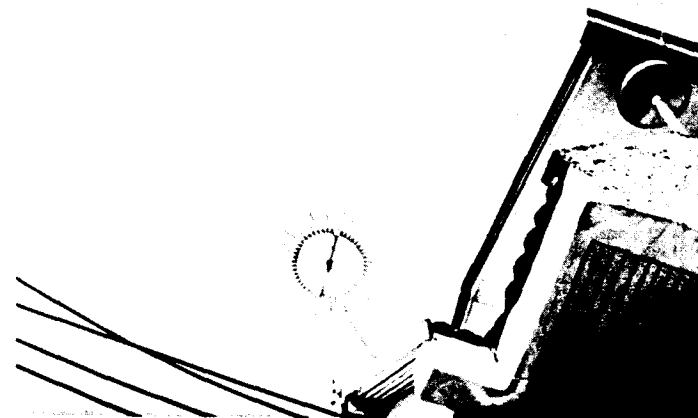


CICA-12 Owen Sound, ON  
562 mi Ms seen 3/7/99  
@0443 ET



WEPX-38 Greenville, NC  
562 mi Tr seen 4/8/99  
@ 2100 ET  
"Pax"

Now for some interesting photos from the collection of Jeff Kadet, Macomb, IL. First is a strange antenna spotted in Thailand:



...continued on page 29



WA	Vancouver	KPDX 49=>48	WI	Milwaukee	WITI 6=>33
WI	Appleton	WACY 32=>59			WISN 12=>34
	Eau Claire	WQOW 18=>15			WMVT 36=>35
		WEAU 13=>39			WDJT 58=>46
	Green Bay	WGBA 26=>41		Wausau	WHRM 20=>24
	Kenosha	WPXE 55=>40	WV	Lewisburg	WVXS 59=>48
	Milwaukee	WCGV 24=>25		Martinsburg	WWPX 60=>12

### Construction permits granted for new stations

St	Ch	ERP	HAAT	City	Call	Latitude	Longitude
CA	68 <sup>+</sup>	200	922	Riverside	KRCA 62	34-12-48	118-03-41
CA	19 <sup>+</sup>	383	418	San Francisco	KBWB 20	37-45-19	122-27-06
CA	12 <sup>+</sup>	8.9	834	San Jose	KNTV 11	37-06-40	121-50-34
FL	15 <sup>+</sup>	215	419	Fort Myers	WBBH 20	26-49-30	81-45-55
IL	59 <sup>+</sup>	200	494	Aurora	WEHS 60	41-52-44	87-38-10
NE	25 <sup>+</sup>	680	425	Lincoln	ROLN 10	40-48-11	97-10-52
NJ	8 <sup>+</sup>	4.5	221	New Brunswick	WNJB 58	40-37-17	74-30-15
NJ	18 <sup>+</sup>	50	333	Newton	WNBC 63	41-00-43	74-35-32
NJ	66 <sup>+</sup>	200	280	Vineland	WHSP 65	39-44-07	74-50-29
TN	48 <sup>+</sup>	5000	196	Tazewell	Tazew. Bcstg	36-27-44	83-35-58
TX	18 <sup>+</sup>	220	535	Fort Worth	KTXA 21	32-32-35	96-57-32
UT	12 <sup>-</sup>	275	659	Logan	L. Ch. 12 LLC	41-47-06	112-13-55

### New-station permits expired, dismissed, etc.:

St	City	Ch	# permits	St	City	Ch	# permits
MI	Ironwood	24	1	TN	Tazewell	48	6
MI	Ishpeming	10	2	UT	Logan	12	1
NH	Silver City	6	1				

### Applications to change existing stations

St	Ch	ERP	HAAT	City	Call	Latitude	Longitude
AL	20z	2667	623	Montgomery	WCOV-TV	31-58-32	86-09-46
CO	21z	1000		Colorado Springs	KXRN-TV		
DC	20+	5010	233	Washington	WDCA		
FL	29+		458	West Palm Beach	WFLX		
GA	69z	5010	338	Atlanta	WUPA	33-45-29	84-19-49
MA	44z	1100	374	Boston	WGBX-TV		
OR	11z		192	Coos Bay	KCBY-TV		124-07-46
PA	35+		291	Erie	WSRE	42-02-16	80-03-44
WI	10+	251	327	Milwaukee	WHVS		

### Applications to change construction permits

St	Ch	ERP	HAAT	City	Call	Latitude	Longitude
AR	34+	457	188	Eureka Springs	KWBS-TV	36-26-30	93-58-25
FL	7 <sup>+</sup>	35	465	Tampa	WFLA-DT	27-50-32	82-15-45
KS	36+		329	Hutchinson	KSCC (1)		97-30-42
ND	26+	738	300	Bismarck	KNDX	46-35-23	100-47-39
NJ	62-		296	Atlantic City	WACI	39-37-53	74-22-12

SD	36+	2630	230	Sioux Falls	KAUN	43-30-19	96-34-19
WA	24+	3390	380	Pullman	KBGC	46-51-43	117-10-26
WA	56z	4000	695	Tacoma	KWDC	47-30-17	122-58-06
WY	11+	15.8	331	Jackson	KBEO	43-27-40	110-45-06

(1) This is probably a correction; the originally-granted HAAT was 733m. I don't know of any mountains that tall in southeast Kansas!

### Changes granted to existing stations

St	Ch	ERP	HAAT	City	Call	Latitude	Longitude
CA	20-	5010	473	San Francisco	KBWB		
FL	35+	5000		Orlando	WOFL		
GA	6+		489	Augusta	WJBF	33-24-18	81-50-15
KS	11z		294	Topeka	KTWU		
KY	34-	5000	447	Campbellsville	WGRB	37-31-51	85-26-45
MA	2+	72.4	395	Boston	WGBH-TV		
MI	50-	5000		Detroit	WKBD		
MN	8z		295	Duluth	WDSE-TV	46-47-30	92-07-21
MT	12z	210	706	Helena	KTVH		
NC	11+	309	615	Durham	WTVD		
NE	4+		609	Superior	KSNB-TV		
NV	21+		368	Las Vegas	KVWB	36-00-28	115-00-24
OR	10z		524	Portland	KOPB-TV	45-31-21	122-44-45
PA	2-		295	Pittsburgh	KDKA-TV		
SC	16+	5000	349	Greenville	WGGG-TV		
SD	17-	2025	445	Sioux Falls	KITW	43-31-14	96-34-54
TN	53z	5000		Cleveland	WFLI-TV		
TX	65z		526	El Paso	KKWB	31-48-19	106-28-59
TX	68z		541	Arlington	KPKD	32-35-19	96-58-05
TX	62z	1650	553	Killeen	KARW	30-43-33	97-59-24
WI	18z	911	280	Eau Claire	WQOW-TV	44-48-00	91-27-57

WUNI [27] Worcester, MA has corrected its coordinates to 42-20-09N/71-42-57W.

### Changes granted to construction permits

St	Ch	ERP	HAAT	City	Call	Latitude	Longitude
ND	24z	740	213	Minot	KXND	48-03-14	101-26-03

### Changes expired, dismissed, etc.:

St	City	Ch	Call	St	City	Ch	Call
TX	Kingsville	46	K46DL	WI	Appleton	32	WACY

### LPTV Displacement Applications

AZ	Phoenix Parks	KDTP-LP 39=>35z	MI	Alpena	W31BO=>32+ or 42+
		K64AP=>47-	NC	Goldsboro	W59BA=>63+ or 67z
CA	Modesto	K57FD=>49-	OH	Masury	W31BW=>17+
	Sacramento	K21DP=>22+ or 56z	TN	S. Pittsburg	W36BG=>7+
FL	W Palm Bch	W57CX=>55+			

### LPTV Displacements Granted

CO	Aurora	K23ET 38=>23	AR	Pine Bluff	K45FP 36=>45n
AL	Dothan	WJLN-LP 69=>5z	AZ	Phoenix	KDRX-LP 64=>48
AR	Little Rock	KHUG-LP 46=>44+	CA	Anderson	K38FQ 20=>38+

CA	Redding	KRVU-LP 22=>21	NM	Sheridan	K45FM 69=>45+
CO	Denver	KSBS-LP 18=>67z	OH	Eastlake	W36CT 67=>36+
	Glenwood Spr	K42EV 65=>42	OK	Elk City	K29EI 52=>29
FL	Ft. Myers	WEVU-LP 7=>4		Guymon	K30FY 61=>30
	Sebring	W23BT 54=>23+			K57HY 65=>57
	Tampa	WSVT-LP 14=>18z		Norman	KDSA-LP 46=>11+
	(Moves from Bradenton)			Nowata	K25GR 60=>25+
GA	Savannah	W32CC 69=>32n		Tulsa	K51FR 65=>51+
ID	Rexburg	K59GN 63=>59z	OR	John Day	K26FQ 68=>26n
KY	Corbin	WVTN-LP 48=>61	PA	Clarks Summit	W14CO 32=>14z
	Murray	WQTV-LP 46=>24+	SC	Hilton Head I.	W53BX 18=>53
LA	Shreveport	K59GO 65=>59-		N. Charleston	W22CN 69=>22-
MA	Boston	W40BO 54=>40-	TN	Knoxville	WEZK-LP 34=>28z
ME	Bangor	W03UT 20=>9-		Nashville	WVIE-LP 10=>20
		W36CK 17=>36	TX	Bastrop	KHPB-LP 16=>45+
MN	Bemidji	K34FC 26=>34		Beaumont	K25GP 46=>25z
	Grand Rapids	K29EB 18=>29-		Corpus Christi	K12PH 13=>12z
	Rochester	K58GC 21=>58z			KCCX-LP 50=>25-
MO	St. Louis	K51FT 40=>51		Fort Stockton	K25GO 30=>25+
MT	Missoula	K46FP 61=>46z		Keene	KGSW-LP 24=>46+
NC	Apex	WACN-LP 57=>34-	UT	Riverdale	KTLE-LP 39=>51
ND	Grand Forks	KCPM-LP 39=>35		Salt Lake City	KEJT-LP 48=>50z
	(Moves from Fisher, MN)				K68FY 31=>68
		K49FF 22=>49z		Spanish Fork	K52GC 21=>52
NE	Benkelman	K33FO 12=>33+	VA	Bridgewater	W31CE 30=>31
NM	Datil	K48GM 68=>48-		Lynchburg	W46CX 19=>46z
	Gallina	K48GD 61=>48+	WA	Everett	K29ED 27=>29+
	Santa Rosa	K30FP 74=>30+	WI	Milwaukee	W41CI 46=>41-
	This is the former K74BO.		WY	Laramie	K36FH 61=>36

### Technical changes on the air

St	Ch	Call	City	What happened
AL	44+	WPHX	Gadsden	Increase power 1700=>5000kW & tower height 303=>340m; move about 25km west-southwest.
CA	2z	KCBS-TV	Los Angeles	correct coordinates to 34-13-55/118-04-18 and tower height from 1107m to 1097m.
CA	69z	KSWB-TV	San Diego	decrease power 4790=>4470kW.
CA	14+	KDFTV	San Francisco	Increase power 2570=>3980kW, tower height 381=>701m, move about 65km east-southeast.
CO	7z	KMGH-TV	Denver	Increase tower height 308=>310m.GA
GA	22z	WJCL	Savannah	correct coordinates to 32-03-29N/81-20-19W
IN	6z	WRTV	Indianapolis	decrease tower height 302=>279m.
IN	40z	WHMB-TV	Indianapolis	Increase power 2090=>5000kW.
MI	41+	WOTV	Battle Creek	Increase power 2000=>5000kW & correct coordinates to 42-34-15N/85-28-07W.
MN	7z	KCCO-TV	Alexandria	correct coordinates to 45-41-10N/95-08-03W & tower height 341=>355m.
MN	21+	KQDS-TV	Duluth	Increase power 44.7=>550kW & tower height 180=>305m.
MN	47-	KKLT-TV	Rochester	Increase power 107=>1510kW, tower height 104=>343m, move about 40km southwest.
MN	17z	KTCI-TV	St. Paul	Increase power 141=>331kW.
MO	12+	KODE-TV	Joplin	correct coordinates to 37-04-37N/94-32-15W.
ND	4-	KXJB-TV	Valley City	Increase power 97.7=>100kW, decrease tower height 619=>591m, move tower a few hundred feet west.

MO	4-	KMOV	St. Louis	Increase tower height 335=>343m.
NY	43+	WNYS-TV	Syracuse	Increase power 17.8=>776kW, tower height 35=>445m, move about 20km south-southeast.
OH	53z	WWHO	Chillicothe	Increase power 3240=>5000kW & tower height 207=>349m; move a few hundred feet northeast.
OH	26+	WBDT	Springfield	correct coordinates to 39-54-32N/83-51-39W & tower height 149=>154m.
TX	65z	KKWB	El Paso	Increase power 1000=>5000kW; decrease tower height 557=>526m; and move a few hundred feet southeast.
TX	48z	KNVO	McAllen	decrease power 3160=>3020kW & increase tower height 160=>288m.
TX	45z	KXLN-TV	Rosenberg	Increase power 2190=>5000kW.
TX	41+	KWEX-TV	San Antonio	Increase power 1000=>5000kW, tower height 152=>432m, move about 30km southeast.
VA	65+	WUPV	Ashland	Increase power 1580=>2690kW.
VA	15z	WHRO-TV	Hampton	Increase power 2630=>2880kW, decrease tower height 296=>294m
VA	10z	WSLS-TV	Roanoke	correct coordinates to 37-12-03N/80-08-54W.
WA	49-	KPDX	Vancouver	Decrease power 3160=>2950kW.
WI	55-	WPXE	Kenosha	Increase power 741=>5000kW, tower height 137=>144m, move about 25km north-northwest.
WI	58z	WDJT-TV	Milwaukee	Increase power 2820=>5000kW, tower height 163=>339m, move about 6km north
WI	14-	WIWB	Suring	Increase power 200=>1000kW & tower height 189=>201m; move about 30km southeast.
WY	33-	KKTU	Cheyenne	Increase power 251=>2950kW, decrease tower height 148=>134m.

### New stations on the air or requesting operating license

St	Ch	ERP	HAAT	Call	City	Latitude	Longitude
CA	68z	1100	402	KTLN-TV	Novato	38-09-00	122-35-31
FL	7*	19	465	WFLA-DT	Tampa	27-50-32	82-15-45
LA	11+	316	544	KAQY	Columbia	32-05-42	92-10-34
ME	23-	5000	331	WMPX-TV	Waterville	44-09-15	70-00-37
MO	56*	1000	333	KMOV-DT	St. Louis	38-31-47	90-17-58
OH	30z	1350	357	WHCP	Portsmouth	38-45-42	83-03-41
OK	19z	5000	251	KWBT	Muskogee	35-45-08	95-48-15
TX	40z	5000	577	KTLM	Rio Grande C.	26-31-01	98-39-07
WA	51+	3800	719	KBEH	Bellevue	47-30-17	121-58-04
WA	34-	2820	450	KGPX	Spokane	47-36-04	117-17-53

### Call changes

Was:	Now:	City:	Ch	Was:	Now:	City:	Ch:
K38EA	KETV-LP	Inl. Emp, CA	38	K69FW	KVDO-LP	Clear L., TX	69
WPRC-LP	WFOL-LP	Orlando, FL	4	KHSX-TV	KSTR-TV	Irving, TX	49
WNGN-TV	WHOT-TV	Athens, GA	34	K44FP	KINE-LP	Robstown, TX	44
W69BT	WMWB-LP	So. Bend, IN	69	K21DZ	KITW-LP	S. Antonio, TX	21

K48GJ	KNCV-LP	Carson C., NV	48	K21FG	KVTX-LP	Victoria, TX	21
K25FY	KRRI-LP	Reno, NV	25	K31EY	KVHM-LP	Victoria, TX	31
WHHQ	WEWB	Schenec., NY	45	W07BK	WKTP-LP	Gate City, VA	7
K46DP	KDSA-LP	Norman, OK	11	W04BL	WMEV-LP	Penn. Gap, VA	4
W66CA	WSQY-LP	Spartanbg, SC	66				

### Programming changes

Call	Location	Programming
K12MY	Batesville, AR	sold to KKYK [49], WB.
K18EU, K34EN, K52FJ, K48FL	Fort Smith, AR	all sold to KWBS [34], WB?
K38DK	Santa Barbara, CA	sold to KADY [63], UPN. (1)
K59FV	Santa Barbara, CA	sold to KJLA [57], WB. (1)
W24AM	De Funiak Sprs., FL	sold to religious organization.
WPAN [53]	Ft. Walton Bch, FL	from VCC to ACN shopping.
WPXG-LP [31]	Orlando, FL	sold by Pax.
WHOT-TV [34]	Athens, GA	from The Box to independent.
K56FH	Duluth, MN	sold to Duluth Datacasting Partners.
WSSN-LP [10]	Wilmington, NC	sold to WRAL [5], CBS.
K53FU	Clovis, NM	sold to religious organization.
K02GB	Quemado, NM	sold to KNME [5], PBS.
CH2746 [23]/ CH2748 [29]	Ingonish, NS	from WDIV [4] to WRDH [7], both NBC/ from WTOL [11] to WBZ [4], both CBS.
WDEM-LP [17]	Columbus, OH	sold to WHWO [53], WB.
WJOS-LP [27]	Pomeroy, OH	FamilyNet
K20ES & K24DX	Pendleton, OR	sold to KWBP [32], WB.
KENY-LP [4]	Reedville, OR	sold to KWBP [32], WB.
WQHB [63]	Sumter, SC	sold to owners of WFXB [43] Myrtle Beach; to become satellite of this Fox affiliate?
WCNT-LP [65]	Chattanooga, TN	sold to 3ABN.
WVIE-LP [20]	Nashville, TN	sold to WNFX [28], Pax.
K31ET	Amarillo, TX	sold to Hispanic organization.
K48FR	Amarillo, TX	sold to Univision.
KBZO-LP [51]	Lubbock, TX	sold to Univision.
K31DM	San Angelo, TX	sold to Univision.
KHCV [45]	Seattle, WA	from Military Channel to ValueVision.

(1) KADY & KJLA traded LPTVs here.

### Forum & Other Stuff

Thanks to Dave Sinclair, Fernando Garica, and Eric Bueneman for information appearing elsewhere in this column.

Over 250 DTV applications appear in this month's column. Add to that the LPTVs being displaced by DTV, and there's not much room for anything else! Most LPTV information was deleted again, including lists of LPTV displacements denied/dismissed/etc. and those which are now on the air.

We've had real signs of tropo this fall, though only one really good opening here. I understand things have been better in the Midwest. LTV is proving an annoyance for several DXers, but not a serious impediment. Several DXers are reporting DX pushing through local DTV signals, so there's hope...

73 Doug  
12



## SATELLITE NEWS

GEORGE W. JENSEN  
4604 ANNTANA AVE  
BALTIMORE MD 21206-4226

Another month and another short column. A death and a birth to be mentioned, however. The birth is that of Telstar 7 at 129 West - C and Ku-Band. GI's 4DTV has not allocated a designator for this yet, but I am using the old T3 designator and can report an ID channel on XPDR 10 C band and using a generic Ku designator find an ID channel on XPDR 14 app.

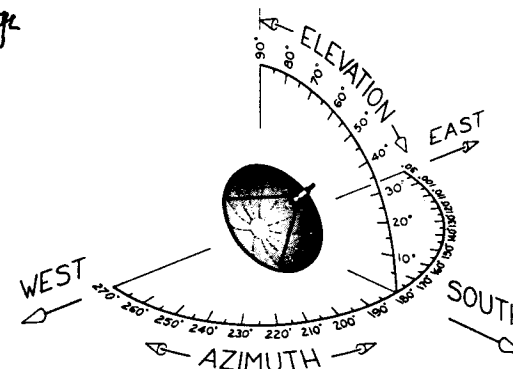
Spacenet 3 at 83 West has gone dark and what programmers were on it have moved elsewhere or gone dark for the time being. These included  
3 - Hollywood treasures Network  
7 - VCC - Video Catalogue Channel  
9 - C3D - Stereoscopic Television  
13 - Daystar  
23 - Home team Sports

And now to the additions and deletions -

Satcom C3 -  
16 - M2 - moved to Galaxy 9  
Galaxy 9  
6 - M2 - as noted last month  
105 - Showtime Beyond - proposed (west coast feed)  
Solidaridad 1  
11 - Government of Mexico here from 10  
Spacenet 4  
6 - Hollywood Treasures Network (from S3)  
10 - Daystar - KMPX - Ch 29 - decatur (Dallas/Ft. Worth) from S3  
Galaxy 6  
23 - XHUPN - ch. 41 or 49 - San Diego, Cal. (Tijuana) don't know why this is here - they try to block the ID's  
Galaxy 7  
21 - BET On Jazz is now in VC2  
GE Americom GE 2  
22 - ANA - Arabic Network seems to have disappeared along with it's audio subcarrier of WWTL 700 Walkersville, MD

That's all for this month. As the holiday season approaches I wish you all a Merry Christmas, Happy New Year, Happy Kwanzaa and Happy Hanukkah.  
That's all for now - see you in 30 - 2000AD.

*George*



# FM NEWS

DECEMBER 1999

EDITOR: GREG CONIGLIO  
90 SLATE CREEK DRIVE APT. #3  
CHEEKTOWAGA, NEW YORK 14227  
E-MAIL: coniglio@localnet.com  
WEB: http://www.geocities.com/~wgrc

FM NEWS PAGE 2

DECEMBER 1999

Most of the information appearing in this column is courtesy of:  
M STREET JOURNAL - 54 MUSIC SQUARE EAST SUITE 201 - NASHVILLE, TENN. 37203  
PHONE: (609) 883-3321, FAX: (609) 883-5696, E-MAIL: MstreetTom@aol.com

**KEY TO ABBREVIATIONS:**  
&: satellite programming  
AF: New frequency allocation accepted for filing for a new FM license  
AFA: American Family Association  
CC: call letter change  
CL: city of license change  
CX: a construction permit has been canceled  
C1, C2, etc.: a change in status to that FM license class  
DA: directional antenna  
DE: station has been deleted  
FC: format change  
GA: granted amendment to the table of FM allocations  
GE: granted extension of construction permit

GX: granted replacement of expired permit  
LC: license to cover filed (means station is ready to come on air)  
MC: multiple-city legal ID  
NC: no change yet on a reported change/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 to change FM table of allocation  
PC: power change on the air (> for increase, < for decrease, when known)

PG: power change granted (> for increase, < for decrease, when known)  
QC: frequency change occurred  
QG: frequency change granted  
RA: silent station returns to air  
RE: station requests extension on permit  
RX: station requests replacement of expired permit  
SG: slogan change or update  
SI: station is silent  
XA: dismissed amendment to FM allocations  
XC: transmitter site change occurred  
XG: transmitter site change granted



UNITED STATES

## ALABAMA:

Atmore: WYOK 104.1 FC to hot AC "Star 104"  
Columbiana: WQEM 101.5 NW, CHR // WQEN 103.7 "The Q" (Birmingham)  
Greensboro: \*NS 99.1 6 kW, 328 ft.  
Huntsville: W209BL 89.7 NS-4w: KAWZ-ID  
Jasper: WDXB 102.5 CC (ex WOWC) "Dixie"  
Russellville: WKGL 97.7 adds Bob & Sheri

## ALASKA:

Anchorage: KAFC 93.7 NW, cont. Christian  
Homer: KVVV 103.5 adds WW1 soft AC (&)  
Juneau: KSRJ 102.7 NW, WW1, soft AC "Star"  
Juneau: KFMG 100.7 NW, ABC hot AC "Magic"

## ARIZONA:

Flagstaff: KNAU 88.7 dec. to 1147 ft, XC: 34-58-07 / 111-30-24  
Florence: KCDX 103.1 PC < 2.7 kW, 3057', ND  
Kingman: KZZZ 94.7 PG < 17 kW, 1873 ft, C1, DA, XG: 35-01-58 / 114-21-57  
Oro Valley: \*NS 101.9 3.7 kW, -380 ft.  
Page: KNAD 91.7 PC > 1 kW, 1633', C2



## ARKANSAS:

Atkins: KRRD 99.3 NW, classic rock  
Danville: \*NS 105.5 17.6 kW, 364 ft.  
Des Arc: \*NS 104.7 6 kW, 328 ft.  
Des Arc: KBDO 91.7 NW, AFA cont. Christian (&)  
Earle: \*NS 103.9 25 kW, 328 ft.  
El Dorado: KAGL 93.1 FC to JRN class. Rock (&)  
Forest City: KARH 88.1 PG < 3.7 kW, 544 ft.  
Greenwood: KZKZ 106.3 PC > 15 kW, 397 ft, class C3, XC: 35-13-44 / 94-15-46  
Hampton: KBPW 88.1 CC (NS)  
Malvern: KCDI 93.3 CC (ex KVMK) "CD Country"  
Siloam Sps: KMCK 105.7 SG "Power 105.7"

## CALIFORNIA:

Arvin: KBDS 92.5 NW, reg. Mexican // KMYX-FM (Bakersfield)  
Atascadero: KIQQ 104.5 PG < 4.7 kW, 1443 ft, XG: 35-21-40 / 120-39-21  
Azalea: K212FD 90.3 NS-13w, DA: KVIP-FM  
Coachella: K215DF 90.9 NS-10w(v), DA: KMRO-CA  
Corning: KTHU 100.7 CC (ex KCEZ), FC to classic rock (Chico)  
Durham: K214DM 90.7 NS, 10w, DA: KAWZ-ID  
Gualala: KTID 100.5 CC (ex KWAN), FC to adult alternative  
Johannesburg: KEDD 103.9 RA with JRN standards // KLOA  
Johnstonville: K201FS 88.1 NS-11w: KEFX-ID  
Kerman: KKPW 94.3 PC > 6 kW  
Los Molinos: KCEZ 102.1 CC (ex KTHU), FC to oldies (Chico)  
Mendota: \*NS 100.5 6 kW, 69 ft

## California:

Paso Robles: KWSR 92.5 CC (ex KDDB) "Star 92.5"  
Riverside: KGGI 99.1 adds "The Dog House" (morning show from KYLD San Fran)  
San Fernando: KBUA 94.3 dec. to 26'  
San Luis Obispo: KLVH 88.5 CC (ex KLVB) "K-Love"  
Santa Cruz: KZSC 88.1 PG > 10 kW, 433', B1, DA, XG: 37-00-10 / 122-03-04  
Truckee: \*NS 101.5 class A  
Willows: \*NS 106.3 6 kW, 328 ft.

## COLORADO:

Fountain: KPRZ 96.1 PC > 1.7 kW, 2198 ft, C2, XC: 38-44-43 / 104-51-39  
Glenwood Sps: \*NS 95.5 73w, 2709 ft.  
Leadville: K219DX 91.7 NS-40w: KTLF-CO  
Salida: \*NS 93.7 250w, 2755 ft.

## CONNECTICUT:

Norwalk: W203BB 88.5 NS-3w(v), DA: KAWZ-ID  
Vernon: W209BK 89.7 NS-10w: WESU

## DELAWARE:

Bethany Bch: WOSC 95.9 FC to rock  
Dover: WRDX 94.7 FC to classic rock  
Pike Creek: WBMO 88.1 CC (NS)  
Selbyville: \*NS 97.9 ?? w



## FLORIDA:

Apalachicola: WXGJ 105.5 PC > 50 kW, 315 ft, C2  
Beverly Beach: \*NS 91.1 AF  
Clewiston: WAFK 106.3 adds Nashville Nights  
Cross City: WKZY 106.9 dec. to 469', ND  
Edgewater: WKRO 93.1 FC to rock (Daytona)  
Favoreta: \*NS 91.1 AF  
Flagler Bch: \*NS 91.1 AF  
Holly Hill: WYVB 103.3 adds Bob & Sheri  
Holmes Beach: WLLD 98.7 XG: 27-50-32 / 82-48-52  
Inglis: \*\*\* 104.3 PA: add class A  
Live Oak: \*NS 88.5 AF  
Marianna: WJAQ 100.9 FC to country (&)  
Naples Park: WQNU 105.5 PG < 23.5 kW, 722 ft.  
Palm Coast: \*NS 91.1 AF  
Rockledge: WHKR 102.7 dec. to 433 ft, DA, XC: 28-20-59 / 80-46-29  
Safety Harbor: WYUU 92.5 XG: 27-50-32 / 82-48-52  
Stroudsburg: WBXY 88.7 LC

## GEORGIA:

Athens: WBTS 95.5 CC (ex WYAP)  
Bainbridge: \*NS 101.9 5250w, 350 ft.  
Blue Ridge: WPPL 103.9 PG < 5.5 kW (cir), 341', DA  
Brunswick: W218BK 91.5 NS-55w: KAWZ-ID  
Danielsville: W209BJ 89.7 NS-27w: KAWZ-ID  
Helen: WTFH 89.9 NW, rel and contemp. Christian // WRAF  
Macon: WMKS 92.3 adds Lex & Terry  
Milledgeville: \*NS 91.9 AF  
Sparta: WPMA 102.7 LC

Yates: \*NS 89.7 AF

## HAWAII:

Hilo: KHWI 92.7 CC (ex KAOE), FC to classic rock "K-Hawaii"  
Hilo: KAPA 100.3 CC (ex KHWI), FC to Hawaiian music "Kapa 100.3"  
Honolulu: KKLK 98.5 FC Hawaiian music "Island Rhythms" (also includes reggae)  
Honolulu: KPOI 97.5 FC to modern rock  
Kahului: KNUI 99.9 OSA to class C, 72 kW, 2283 ft, XG: 20-39-36 / 156-21-50  
Kealahou: KAOY 101.5 FC to classic rock // KHWI 92.7  
Keahu: \*NS 105.1 no facils given  
Lihue-Kauai: KAWW 98.1 LC

## IDAHO:

Driggs: \*NS 102.1 6 kW, -482 ft.  
Franklin: \*NS 97.7 141w, 33'  
Idaho Falls: \*NS 107.1 1750w, 623 ft.  
Idaho Falls: KOSZ 105.5 adds JRN 45+soft AC (&)  
Pocatello: \*NS 92.1 6 kW, 121 ft  
Twin Falls: \*NS 98.3 100 kW, 981 ft.  
Twin Falls: KAWZ 88.9 PG > 100 kW (v), class C, XG: 42-43-47 / 114-24-52  
Weston: \*NS 95.9 940w, 807 ft.

## ILLINOIS:

Breese: \*NS 97.5 6 kW, 328 ft  
Champaign: WPCD 88.7 PC > 10.5 kW, 338 ft, XC: 40-13-27 / 88-17-56  
DuQuoin: WAWJ 90.1 PG < 3 kW (v), 328 ft, XG: 37-50-20 / 89-08-00  
Earlville: \*NS 102.9 10 kW, 515 ft.  
Fairbury: \*NS 107.7 6 kW, 564 ft.  
Grenview: WGBK 88.5 PC > 185w, 105', DA  
Herrin: WVZA 92.7 adds Bob & Sheri  
Lexington: \*NS 99.5 6 kW, 328 ft  
Macomb: \*NS 95.9 6 kW, 328 ft.  
Watseka: \*\*\* 95.9 PA: add class A  
Wheaton: WETN 88.1 PC 250w (Cir), DA

## INDIANA:

Bloomington: WBWB 96.7 FC to JRN hot AC (&)  
Clinton: WPFR 93.9 NW, to be religion  
Corydon: WGZB 96.5 PG > 6 kW  
Danville: WEDJ 107.1 CC (ex WSYW), FC to rock (Indianapolis)  
Delphi: WNJY 102.9 XG: 40-34-57 / 86-38-28  
Ellettsville: WGCT 105.1 FC to JRN classic country (&)  
Princeton: WSJD 100.5 XC: 38-23-24 / 87-34-23  
Shelbyville: WENS 97.1 dec. to 731', XG: 39-40-06 / 86-01-44  
Terre Haute: WAPC 91.9 XG: 39-28-05 / 87-23-55

## IOWA:

Atlantic: \*NS 95.7 class C3  
Boone: KRKQ 98.3 PC < 41 kW, 541 ft, XC: 41-49-51 / 93-43-53  
Cherokee: K208DS 89.5 NS-250w(v): KAWZ-ID  
Decorah: KVIK 104.7 PG < 1950w, 584 ft, XG: 43-17-13 / 91-53-03  
Keosauqua: \*\*\* 102.1 PA: add class C3  
Parkersburg: \*NS 98.9 6 kW, 318 ft.  
Sioux City: K220HO 91.9 NS-170w(v), DA: WPCS-FL



**KANSAS:**

Coffeyville: KKRK 98.9 PC< 3.2 kW, 453 ft.  
 Riley: \*NS 96.3 24 kW, 328 ft.

**KENTUCKY:**

Bowling Green: WBVR 96.7 PA: to class C3 (from class A)  
 Greenup: WLGC 105.7 PG< 12.5 kW, 466 ft, XG: 38-35-44 / 82-51-22  
 Hopkinsville: \*NS 97.5 6 kW, 328 ft  
 Monticello: WMKZ 93.1 PC> 1450w, 676 ft.  
 Somerset: WTHL 90.5 PC> 50 kW, DA, C1, 590 ft  
 Tompkinsville: \*NS102.7 3.1 kW, 453 ft.  
 Vine Grove: WRZI 101.5 PC> 6 kW, DA

**LOUISIANA:**

Ball: KHFV 105.5 adds Walton & Johnson  
 Baton Rouge: WFMM 102.5 CC (ex WLSS)  
 Columbia: KYEA 103.1 CC (ex KCTO), PC> 50 kW, 492 ft.

Folsom: WYLK 104.7 FC to Smooth Jazz (&)  
 Mansura: \*NS 95.9 6 kW, 328 ft.  
 Provencal: K204DL 88.7 NS-75w(v): KTLW  
 S. Fort Polk: \*NS 95.7 6 kW, 328 ft.  
 Tioga: KLAA 103.5 adds Steve & DC  
 W.Monroe: KZRZ 98.3 CC (ex KYEA)

**MAINE:**

Camden: \*NS 90.5 2 kW (v), 1178' (MPB)

**MARYLAND:**

Salisbury: WSBY 98.9 FC to rock // WOSC-DE  
 Salisbury: W220CT 91.9 NS-38w: WXHL-DE

**MASSACHUSETTS:**

Brockton: WBOT 97.7 CC (ex WCAV) "Boston's Hot"  
 Truro: WCDJ 102.3 PG< 340w, 98 ft.  
 Webster: WORC 98.9 FC to classic hits

**MICHIGAN:**

Battle Creek: \*NS 90.1 AF  
 Charlevoix: \*NS 91.3 AF  
 Charlevoix: \*NS 107.9 3.6 kW, 417 ft.  
 Detroit: WKQI 95.5 XG: 42-28-23 / 83-11-59  
 Fremont: W206AZ 89.1 NS-55w: WAAQ  
 Fremont: WSHN 100.1 GA: to Holton, MI  
 Gaylor: WMJZ 101.5 QC from 95.3  
 Imlay City: \*NS 89.1 AF  
 Iron Mtn: WBMU 91.5 500w(v), 600', DA (VCY), CC (NS)  
 Jackson: \*NS 88.5 AF  
 Manistique: \*NS 99.9 6 kW, 171 ft.  
 Oscoda: WCLS 100.7 FC to JRN soft AC (&)  
 Pinconning: \*NS 104.1 4.1 kW, 367 ft.  
 Schoolcraft: WBMY 89.7 1.1 kW, 138', DA, CC (NS)  
 Speaker Twp: \*NS 89.7 AF

**MINNESOTA:**

Glyndon: \*NS 89.5 AF  
 Mahanomen: \*NS 101.5 25 kW, 328 ft.  
 Ortonville: KPHR 106.3 FC to ABC clas. rock (&)  
 Pequot Lakes: \*NS100.13.9 kW, 407 ft.  
 Pillager: KBKK 95.9 NW, adult alternative  
 Princeton: \*NS 89.7 AF  
 Sunburg: \*NS 106.5 6 kW, 328 ft.  
 Winona: KHME 101.1 PG< 5 kW, 741 ft, DA  
 Wabington: \*NS 90.1 AF

**MISSISSIPPI:**

Burnsville: WOWL 91.9 CC (NS)  
 Clarksdale: \*NS 92.1 6 kW, 328 ft.  
 DeKalb: WJXM 105.7 FC to urban AC "Majic 105.7" (Meridian)  
 Greenville: \*NS 104.7 50 kW, 476 ft.  
 Grenada: \*NS 92.3 6 kW, 328 ft.  
 Grenada: \*NS 101.3 6 kW, 328 ft.  
 Gulfport: WUJM 96.7 CC (ex WLRK) "You Jam"  
 Hattiesburg: \*NS 93.1 3.9 kW, 406 ft.  
 McLain: WXAB 96.9 reported SI  
 Newton: WMSO 97.9 PC< 8.7 kW, 551 ft, XG: 32-21-57 / 88-54-50  
 Sardis: \*NS 102.1 6 kW, 328 ft.  
 State College: \*NS 104.5 25 kW, 328 ft.  
 Sumrall: WFMM 97.3 PC> 6 kW, 328 ft.  
 Tupelo: WAQB 91.7 PC> 5 kW, 305 ft, XG: 34-05-09 / 88-48-28  
 Union: WZKS 104.1 PC> 19 kW, DA

**MISSOURI:**

Bismarck: \*NS 99.5 17.5 kW, 399 ft.  
 Columbia: KCMQ 96.7 PC> 100 kW, 912 ft, C1, XG: 38-41-30 / 92-05-44  
 Deerfield: \*NS 100.7 17.5 kW, 390 ft.  
 Doniphan: KOEA 97.5 adds Radio 1 cntry (&)  
 Ellington: KAUL 106.7 NW, New Life religion (&)  
 Ironton: KYLS 95.9 QC from 92.7, PC> 3.2 kW, 922 ft. class C

Joplin: KSYN 92.5 "Kissin 92.5"  
 Jefferson City: KJMO 100.1 FC to classic hits  
 Jefferson City: KBQF 104.1 CC (NS)  
 Kansas City: KCMO 94.9 XG: 39-04-15 / 94-34-57  
 Mtn View: KUPH 96.9 FC to adult contemporary  
 St. Robert: KFLW 98.9 adds John Boy & Billy  
 Salem: KKID 92.9 FC to adult rock (&), QC from 95.9, now C3, 21 kW, 361', XG: 37-43-45 / 91-28-23  
 Troy: KFNS 100.7 CC (ex KZMM) "K-Fans 590 and 100.7"  
 Vandalia: \*NS 104.3 6 kW, 203 ft.

**MONTANA:**

Alberton: \*\*\* 106.7 PA: add class C3  
 Belgrade: \*NS 99.1 6 kW, 200 ft.  
 Big Sky: \*\*\* 96.3 PA: add class A  
 Billings: KBEX 105.1 FC to classic hits  
 Bozeman: \*NS 103.5 100 kW, 295 ft.  
 Cascade: \*NS 104.9 3 kW, 328 ft.  
 Colstrip: KBPY 93.7 CC (NS)  
 Deer Lodge: KQRV 96.5 QG to 96.9 - C1, 15 kW  
 Great Falls: \*NS 100.3 45 kW, 2716 ft.  
 Great Falls: \*NS 107.3 94 kW, 2037 ft.  
 Hamilton: KBMG 95.9 QG to 96.3 - C, 85 kW, 2066 ft., XG: 46-48-08 / 113-58-21



**NEBRASKA:**

Auburn: KNCY 105.5 QG to 94.7, 14 kW, 436 ft, class C3, XG: 40-27-57 / 95-45-38  
 Bennington: KTNP 93.3 PG> 9.6 kW, class C3, ND  
 Blair: \*NS 97.3 25 kW, 328 ft.  
 Plattsmouth: KCTY 106.9 FC to adult alternative  
 Pleasant Dale: \*\*\* 99.1 XA to add class A  
 York: KTMX 104.9 PG> 13 kW, 974 ft, class C2, XG: 40-45-07 / 97-27-04

**NEVADA:**

Cal-Nev-Ari: \*\*\* 104.9 GA: add class A  
 Round Mtn: K207CY 89.3 NS-9w: KUNR

**NEW HAMPSHIRE:**

Bedford: WQLL 96.5 PG > 730w, 935 ft, DA, XG: 42-59-02 / 71-35-22  
 Henniker: WNNH 99.1 PG> 2.8 kW, 479 ft, DA, XG: 43-12-49 / 71-41-19  
 New London: WNTK 99.7 PC>760w, 676 ft.

**NEW JERSEY:**

Columbia: WJSE 102.7 adds Howard Stern  
 Dover Twp: WVNJ 91.1 PC> 50 kW(v), class B  
 Hopatcong: \*NS 88.1 AF

**NEW MEXICO:**

Bosque Farms: KEXT 104.7 FC to regional Mexican // KXKS (Albq.)  
 Cloudcroft: \*NS 96.7 25 kW, 2880 ft.  
 Clovis: \*NS 101.5 100 kW, 443 ft.  
 Corrales: KSYU 95.1 CC (ex KSWA)  
 Gallup: KFMQ 106.1 FC to rock, adds Mark & Brian for morning drive, OSA to C1, 100 kW, 187 ft.  
 Lovington: KLEA 101.7 FC to WW1 oldies (&)  
 Ruidoso: \*NS 101.5 680 w, 2850 ft.  
 Silver City: KSCQ 92.9 FC to modern AC  
 Tatum: \*NS 107.1 class C

**NEW YORK:**

Altamont: WZMR 104.9 FC to smooth jazz  
 Canton: WVLV 96.7 CC (ex WVNC)  
 Cape Vincent: WBDR 102.7 PG> 6 kW  
 Hoosick Falls: WZEC 97.5 PC< 400w, 1204', ND  
 Hornell: WSGA 88.7 LC  
 Jeffersonville: WWHW 102.1 FC to AP news (&)  
 Lakewood: \*NS 106.9 class C3  
 Malone: WVVN 96.5 PC> 15 kW, 423', DA, XG: 44-46-56 / 74-13-09  
 Norwich: W210BL 88.9 NS-10w: WCII  
 Saugerties: WRWK 92.9 NW, classic rock  
 Sodus: WNNR 103.5 FC to WW1 country "Big Dog" (Rochester) (&)  
 Wellsville: W219CK91.7 NS-43w: WCID  
 Westport: WCLX 102.5 FC to adult alternative  
**NORTH CAROLINA:**  
 Bath: \*NS 90.1 AF  
 Biltmore Forest: \*NS 96.5 class A

Charlotte: WSOC 103.7 inc. to 1348', XG: 35-15-06 / 80-41-12  
 Clinton: WCLN 107.3 PG< 9.2 kW, 535 ft, XG: 35-07-37 / 78-35-19  
 Fair Bluff: \*NS 105.3 25 kW, 328 ft.  
 Franklin: WNCC 96.7 CC (ex WRFR), FC to ABC country (&)  
 Jefferson: WMMY 106.1 NW, country "My Country 106"  
 Robbins: \*NS 103.1 6 kW, 328 ft.  
 Southern Shores: \*NS 100.9 50 kW, 403 ft.  
 Waxhaw: WNMX 106.1 OSA to C2, 32 kW, ND

**NORTH DAKOTA:**

Arthur: KVMI 96.7 FC to talk  
 Fargo: \*NS 89.5 AF  
 Horace: \*NS 89.5 AF

**OHIO:**

Cincinnati: WKRQ 101.9 dec. to 866', XG: 39-06-59 / 84-30-07  
 Cleveland: WDOK 102.1 dec. to 994', XG: 41-22-58 / 81-42-07  
 Dayton: WTUE 104.7 PG< 28 kW, 656 ft.  
 DeGraff: WDEQ 103.3 QG to 91.7 - A, PG> 100 w, 7 ft, XG: 40-18-48 / 83-55-10  
 Hicksville: \*NS 106.7 6 kW, 328 ft.  
 Kingfisher: \*NS 105.3 6 kW, 328 ft.  
 Marysville: WZAZ 105.7 GA: to Hilliard, OH  
 N.Kingsville: WPHR 107.5 CC (NS)  
 Portsmouth: \*NS 107.5 2670w, 499 ft.  
 S.Vienna: \*NS 88.3 AF  
 Wauseon: \*NS 96.9 3 kW, 328 ft.  
 Youngstown: WVMY 98.9 CC (ex WKBN), "Mix 98.9" FC to hot/modern AC (like 96.1 Pittsburgh, 100.5 Rochester, etc.)

**OKLAHOMA:**

Broken Arrow: KOAS 92.1 SG "Kiss 92.1"  
 Collinsville: KMRX 101.5 SG "X101.5 Tulsa's Modern Music"  
 Durant: KSSU 91.9 PG> 1.5 kW, 341 ft, XG: 34-00-45 / 96-19-45  
 Lawton: \*NS 91.1 10 kW, 413 ft, DA  
 Muskogee: KHTS 106.9 SG "106.9 K-Hits"  
 Muskogee: KMMY 97.1 dec. to 1246 ft, XG: 35-15-35 / 95-25-52  
 Wister: K210CT 89.9 NS-11w: KAWZ-ID

**OREGON:**

Bend: \*NS 99.7 1730w, 604 ft.  
 Brookings: \*NS 90.7 AF  
 Canyon City: KJDY 94.5 PC> 53 kW, 1365 ft, class C, XG: 44-12-50 / 119-02-09  
 Florence: K204DP 88.7 NS-10w(v), KAWZ-ID  
 Klamath Falls: \*N 104.7 9 kW, 2196 ft.  
 Lakeview: \*NS 88.7 AF (OPB)  
 Redmond: K203DE 88.5 NS-10w: KAWZ-ID  
 Scio: K220HP 91.9 NS-28w: KLRO-CA  
 Tillamook: \*NS 89.5 AF (OPB)



**PENNSYLVANIA:**

Cooperstown: \*NS 107.7 6 kW, 328 ft.  
 Fairview: \*NS 93.9 6 kW, 253 ft.  
 Grove City: WSAJ 91.1 PG< 1.6 kW, 246 ft.  
 XG: 41-09-49 / 80-07-07  
 Honesdale: WDNH 95.3 PG< 1650w, 456 ft.  
 XG: 41-34-45 / 75-10-42  
 Nanticoke: WQFM 92.1 PG> 660w, 994 ft.  
 XG: 41-11-11 / 75-51-33  
 New Kensington: WZPT 100.7 PG< 14.5 kW, 918 ft.  
 DA, XG: 40-28-20 / 79-59-41, FC to hot AC  
 "The Point" (Pittsburgh)  
 Olyphant: WXAR 95.7 PG> 600w  
 Philadelphia: WYXR 104.5 FC to classic hits "Alice"  
 Philadelphia: WUBZ 105.9 PC< 710w, 951 ft., DA,  
 XC: 40-47-34 / 78-10-29  
 Stroudsburg: WBYX 88.7 NW, TWN cont. Christian  
 // WBYO  
 Warwick: WBMP 88.1 180w (v), 587 ft., DA, CC  
 (NS)  
 W.Chester: WCUR 91.7 LC

**RHODE ISLAND:**

Block Island: WADK99.3 CC (ex WERI), FC to swing  
 and jazz music, PC> 6 kW, 256 ft., XC: 41-10-28 /  
 71-34-20  
 Middletown: WHKK 100.3 PG< 1550w, 656 ft., XG:  
 41-35-48 / 71-11-24  
 Providence: WWBB 101.5 adds Imus  
 Providence: WBRU 95.5 PC< 18.5 kW, 456 ft.

**SOUTH CAROLINA:**

Cross Hill: WBDQ 94.1 LC  
 Murrell's Inlet: WHGB 88.3 PG< 250w (v), 161 ft.  
 XG: 33-32-07 / 79-03-50  
 Newberry: WGVC 106.3 CC (ex WDXZ), RA with  
 WW1 rhythmic oldies (&) (Columbia)  
 Walhalla: WGOG 96.3 FC to JRN oldies (&)



**News  
Sports  
Weather**

**SOUTH DAKOTA:**

Belle Fourche: \*NS 102.1 25 kW, 328 ft.  
 Box Elder: \*\*\* 102.7 PA: add class A  
 Rapid City: \*NS 106.3 100 kW, 984 ft.  
 Rapid City: KFXS 100.3 inc. to 462 ft., XG: 44-04-13 /  
 103-15-01  
 Rapid City: KOUT 98.7 inc. to 462 ft., XG: 44-04-13 /  
 103-15-01  
 Rapid City: KMKM 93.9 in. to 668 ft., XG: 44-02-49 /  
 103-14-45  
 Spearfish: KSLT 107.3 inc. to 1889 ft., XG: 44-19-  
 42 / 103-50-03

**TENNESSEE:**

Dickson: WYYB 93.7 PC< 1150w, 755 ft., CL:  
 Kingston Springs, TN, XC: 36-08-10 / 86-59-04  
 Nashville: WAYM-1 88.7 NS-80 w  
 New Johnsonville: \*NS 89.7 300w, 472 ft.  
 Red Bank: WAWL 91.5 FC> 11 kW (h), C3  
 Savannah: WKWX 93.5 FC to JRN country (&)  
 Shelbyville: WZPC 102.9 inc. to 955 ft.  
 Tullahoma: WAUT 88.5 change main studio loc.  
 Walden: W211BG 90.1 NS-10w: KLOV-FM

**TEXAS:**

Austin: K257AC 99.7 on air // KLNC 93.3  
 Bandera: KEEP 98.3 XC: 29-51-21 / 99-05-26  
 Beaumont: KYKR 95.1 inc. to 1070 ft, class C  
 Beeville: KVFM 91.3 NW, // KUBR 1210 (religion  
 in Spanish)  
 Big Spring: K209DK 89.7 NS-115w: KLVW  
 Breckenridge: KLXK 93.5 PG> 50 kW, class C2  
 Buda: KROX 101.5 SG "Modern Rock 101X",  
 PG< 12.5 kW, 843 ft, class C2, XG: 30-19-23 /  
 97-47-58, CL from Giddings, TX  
 Carlsbad: \*NS 90.9 AF  
 Charlotte: \*\*\* 93.3 PA: add class A  
 Clifton: KWOW 103.3 SG "K-Wow 103.3", PC>  
 12.5 kW, 459 ft, XC: 31-44-05 / 97-19-17  
 Comfort: KRNH 95.1 OSA to C1, 100 kW, 925 ft.,  
 XG: 29-50-26 / 98-49-32  
 Corpus Christi: KBSO 94.7 FC to rock  
 Daingerfield: K216EQ 91.1 NS-250w: KETR  
 Denton: KNTU 88.1 XG: 33-17-24 / 97-08-10,  
 CL: McKinney, Texas  
 Franklin: KZTR 101.9 SG "B102 Today's Hit  
 Music" (College Station)  
 Georgetown: KAHK 107.7 SG "Classic Hits 107-7  
 The Hawk", PG> 20 kW, 328 ft, DA,  
 XG: 30-38-17 / 97-31-35  
 Hallettsville: KXTM 99.9 SG "Texas thunder radio"  
 Haltom City: KKZN 93.3 FC to modern rock "The  
 Merge" (Dallas)  
 Hardin: \*NS 90.7 AF  
 Helotes: KONO 101.1 SG "Kono 101"  
 Hemphill: \*NS 103.9 class A  
 Hempstead: KEZB 105.3 not on air yet  
 Hondo: KRBH 98.5 PC< 130w, -43 ft.  
 Hudson: \*NS 96.3 6 kW, 328 ft  
 Karnes City: \*NS 103.1 class C2



Laredo: KQUR 94.9 CC (ex KOYE), FC to  
 classic hits "Cure 95"  
 Luling: KAMX 94.7 SG "Mix 94.7"  
 McCook: KCAS 91.5 NW, religion // KFGG  
 Markham: KZRC 92.5 CC (ex KGFJ), "Z Rocks  
 92.5"  
 Marlin: KLRK 92.9 FC to WW1 soft AC (&)  
 New Braunfels: KNBT 92.1 SG "92.1FM Radio New  
 Braunfels", "contrary to ordinary"  
 New Ulm: KNRG 92.3 CC (ex KMIA) "Energy"  
 Pasadena: KIKK 95.7 SG "Young Country Kick  
 95.7"  
 Pecos: KKLY 97.3 LC  
 Pilot Point: KTCY 104.9 OSA to C1, 16 kW, XG: 33-  
 33-37 / 96-57-34  
 Portland: KSGR 91.1 PG> 25 kW, 328 ft, C3, DA,  
 XG: 27-59-47 / 97-14-46  
 Quanah: KIXC 100.9 PG> 50 kW, 492 ft, class  
 C2, XG: 34-15-21 / 99-30-50  
 San Antonio: KXXM 96.1 SG "Mix 96.1"  
 Sanger: KXZN 104.1 FC to modern rock "The  
 Merge" // KKZN 93.3 (Dallas)

**Texas:**

Seymour: \*\*\* 98.7 PA: add class A  
 Taylor: KQBT 104.3 "The Beat 104.3"  
 Tulia: KLGD 104.9 OSA to C1, 100 kW, 344 ft,  
 XG: 34-13-14 / 101-42-52  
 Van Alstyne: \*\*\* 99.9 XA to add class A  
 Victoria: KTXN 98.7 SG "Texas Radio 98.7"  
 (Americana format)  
 Winters: KATX 96.1 NW, Real Country (&)

**UTAH:**

Brigham City: \*NS 100.7 class C  
 Cedar City: KCIN 92.5 CC (ex KSSD) "Kickin"  
 Ephriam: K213DC 90.5 NS-10w: KAWZ-ID  
 Huntsville: \*NS 103.1 1.2 kW, 1463 ft.  
 Oakley: \*NS 101.5 64 kW, 1184 ft.  
 Roy: KSNV 107.9 was silent, RA with dance //  
 KUUU "U92" (new format expected soon)

**VERMONT:**

Bennington: WBTV 94.3 FC to info and classical //  
 WVPS 107.9 (becomes non-commercial)  
 Bolton: WGLY 91.5 QC from 91.7, PC> 1 kW,  
 905 ft, class C3, DA "Christian Ministries" CC  
 (ex WCMK)  
 Brandon: WEXP 101.5 NW, CHR "Express 101"  
 Danville: WDOT 95.7 CC (ex WSHX)  
 Middlebury: WRMC 91.1 PG> 2.9 kW, -30 ft,  
 XG: 44-00-25 / 73-10-40  
 Waterbury: WLK 103.3 FC to soft AC "Lake 103.3"  
 Wilmington: WMTT 100.7 PG< 130w, 1483 ft.  
 Woodstock: WCMK 91.7 CC (NS)

**VIRGINIA:**

Chester: WDYL 101.1 RA with modern rock  
 "Y101" (Richmond)  
 Ettrick: \*NS 93.1 6 kW, 328 ft  
 Falmouth: WFAL 104.5 PG 2.7 kW, 492 ft, DA<  
 XG: 38-16-31 / 77-32-34  
 Goochland: \*NS 100.5 1950w, 577 ft.  
 Norton: W219CJ 91.7NS-50w, DA: WISE-FM

**WASHINGTON:**

Cape George: K205DO 88.9 NS, 2w(v), DA: KAWZ  
 Chehalis: KACS 90.5 inc. to 187 ft.  
 Cle Elum: \*NS 93.7 class A  
 Eatonville: KFNC 104.9 CC (ex KKBV) "The Funky  
 Monkey"  
 Goldendale: KYTT 102.3 PC> 2.1 kW (h), 1873 ft,  
 C2, DA  
 Pasco: KEYW 98.3 PG> 12.5 kW, 997 ft, class  
 C2, XG: 46-04-58 / 119-09-39  
 Pullman: \*NS 97.7 6 kW, 328 ft.  
 Royal City: KRCW 96.3 PC> 19.5 kW, 790 ft, class  
 C2, FC to regional Mexican (// KMYX-FM  
 Bakersfield, CA from 7am to 3pm)  
 Sequim: K216ER 91.1 NS-10w: KAWZ-ID  
 Yakima: KFFM 107.3 inc. to 1512 ft, XC: 46-38-  
 26 / 120-23-45

**WEST VIRGINIA:**

Lewisburg: WKCJ 103.1 PG> 3.3 kW, 895 ft, DA,  
 class B1, XG: 37-47-54 / 80-30-56  
 New Martinsville: WETZ 103.9 PC> 6 kW, 328 ft.  
 Williamstown: \*NS 96.9 3510w, 423 ft.

**WISCONSIN:**

Algoma: WBDK 96.7 PC< 8 kW, 538 ft., XC: 44-  
 42-26 / 87-24-26  
 Barron: WKFX 97.7 NW, clas. hits "The Fox"  
 Birmahood: \*NS 92.9 6 kW, 328 ft, DA  
 Cornell: \*NS 99.9 23 kW, 341 ft.  
 Forestville: WRKU 102.1 PC 400w, 492 ft.  
 Mt. Horeb: \*NS 106.7 6 kW, 328 ft.  
 Mukowango: \*NS 105.3 6 kW, 328 ft.  
 Neillsville: \*NS 92.7 3.4 kW, 440 ft.  
 Nekoosa: \*NS 105.5 class A  
 Oshkosh: W203AV 88.5 NS-14w: KAWZ-ID  
 Spooner: \*NS 106.3 6 kW, 328 ft  
 Wausau: WYCO 107.9 adds Bob & Sheri



Central Wisconsin's Best Music Mix

**WYOMING:**

Kemmerer: KAOX 107.3 NW,  
 Laramie: KBPV 98.7 440w, 1181 ft. CC (NS)  
 Laramie: \*NS 96.7 235w, -200 ft.  
 Powell: \*NS 104.1 93 kW, 1938 ft.  
 Powell: KUWP 90.1 430w, 1623 ft., (U of Wyo.),  
 CC (NS)  
 Sheridan: KYTI 93.7 QC from 96.5, PC> 75 kW,  
 1207 ft, class C, XC: 44-37-20 / 107-06-57  
 Sheridan: KZKY 94.9 PC> 75 kW, 1207 ft, class  
 C, XC: 44-37-20 / 107-06-57  
 Sundance: KUWD 91.5 430w, 1623 ft., (U of Wyo.),  
 CC (NS)

**GUAM:**

Agana: \*NS 101.9 26 kW, 528 ft.

**N. MARIANNA ISLANDS:**

Garapan: KCON 101.1 CC (ex KBLB), NW,  
 Polynesian format  
 Garapan: KWAU 100.3 LC

**PUERTO RICO:**

Bayamon: WXYX 100.7 inc. to 1092 ft, XC: 18-16-  
 58 / 66-10-47

**VIRGIN ISLANDS:**

Frederiksted: \*NS 101.7 25 kW, 43 ft.  
 Frederiksted: WAXJ 103.5 PG> 4.6 kW, 915 ft.



Canada

**ALBERTA:**

Calgary: CKIS 96.9 FC to classic rock "Rock  
 97"  
 Grande Prairie: CJXX 840 QG to 93.1, 100 kW  
 Lethbridge: CJOC 1220 wants 106.7, 100 kW  
 Red Deer: CKRD 700 QG to 105.5, 100 kW  
 Taber: CKTA 1570 QG to 93.3, 50 kW

**BRITISH COLUMBIA:**

Courtenay: CFCP 98.9 QC from 1440, now 5 kW  
 Duncan: CKAY 1560 QG to 89.7, 1862 w  
 Houston: \*NS 106.5 923w station wanted, // CFBV-FM  
 Kelowna: CKBL 1150 denied move to 103.1 (another completely new FM station also denied, both due to economic reasons)  
 Massett: \*NS 94.1 13w independent relayer of CFMI 101.1 granted  
 Prince Rupert: \*NS 100.7 27w, contemporary Christian music  
 Vancouver: \*NS 1465.024 DAB: CKWX 1130 / CKKS 96.9 (3.381 kW Mt. Seymour, 2.774 kW Burnaby)  
 Vancouver: \*NS 1461.536 DAB: CKLG 730 / CFOX 99.3 / CKNW 980 / CFMI 101.1 (powers same as above)  
 Vancouver: CFSR 104.9 wants PG< 14 kW  
 Victoria: \*NS 107.3 20 kW, to be modern rock (CJVI-700 denied this freq - they may get 88.9 instead)  
 Victoria: CKXM 1200 QG to 91.3, 1766w

**104.9 FM LITE HITS**

**MANITOBA:**

Brandon: CBWW 98.9 PG< 90 kW wanted  
 Brandon: CBWS 92.7 PG< 90 kW wanted  
 Brandon: CKSB8 99.5 PG>21.7 kW wanted  
 Swan River: \*NS 93.3 stn wanted, 250w, // CINC  
 Winkler: \*NS 93.5 100 kW (a/c and country) (would seem to conflict with new CFEQ 93.5 Winnipeg!)  
 Winnipeg: CFEQ 93.5 22 w cont. Christian music, NW, contemporary Christian

**NEW BRUNSWICK:**

Campbellton: \*NS 88.9 10 kW, to be // CBFX-FM (another report has the CBC withdrawing this application)

**NEWFOUNDLAND:**

Clarenville: \*NS 93.7 11.6 kW relayed wanted for CBG-AM has been withdrawn by the CBC



**ONTARIO:**

Chapleau: \*NS 93.7 50 w emergency info station granted (bi-lingual)  
 Iroquois: CISD 107.7 NW, variety

London: \*NS 102.3 4770w, to be "adult hit music" formatted (owned by CHUM, Ltd.) (this

means CKOT-1150 & CKSL-1410's apps for this freq. were denied)  
 Marathon: CFNO 93.1 FC to local AC  
 Newmarket: CKDX 88.5 PG> 11.3 kW  
 Owen Sound: CIXK 106.5 FC to AC only (dropping country from the mix)  
 Penetanguishene: CFRH 88.1 QC from 101.9, PC> 4493 w  
 Sault Ste Marie: CHAS 100.5 FC to local AC  
 Thunder Bay: \*NS ??? oldies FM station denied, due to economic reasons  
 Wawa: CJWA 107.1 FC to oldies (&)

**PRINCE EDWARD ISLAND:**

Summerside: CJRW 102.1 QC from 1240, 11 kW

**QUÉBEC:**

Sherbrooke: \*NS 89.7 23.4 kW, // CBM-FM

**SASKATCHEWAN:**

Beardys Reserve: \*NS 97.3 27w wanted // CJLR  
 Moose Jaw: \*NS 93.7 100 kW, (a/c and country)  
 N.Battleford: \*NS 99.9 450w app, // CJYM, then withdrawn!  
 N.Battleford: \*NS 94.7 49w app // CJLR-FM,  
 Regina: \*NS 102.5 820w, // CBK 540  
 Unity: \*NS 98.9 380w app // CJYM, then withdrawn!

*PIRATE WATCH:*

• **SPRINGFIELD, MASS.** The FCC busted a Spanish language religious pirate here this month, operating on 94.3. Slogan was "Radio Unidacristian". It was operating from 1071 Dwight Street, in Springfield.

• **BUFFALO, NY.** "CKPR, Energy 100.3" has been on the air the past few weeks, playing dance and club music. The station also seems to have regular jocks, and a good sounding stereo signal. It covers the whole city and at least the inner-ring suburbs with a halfway decent car-radio signal, so it's maybe about 20 - 70 watts?

• **LANCASTER, PA.** "Radio Vida" 106.3 is back on the air, despite complaints from listeners of WJZZ 106.1 (Philadelphia). The Reverend Roberto Figueroa, pastor at the Spanish-language church that runs the station, got his equipment back from the FCC, because of a ruling from a federal judge. The judge claimed that seizing the equipment violated the "Religious Freedom Restoration Act". The *Lancaster Intelligencer Journal* reported that the station has returned to the air. Figueroa is now also trying to get a legitimate license from the FCC.

• **CLEVELAND, OHIO.** Jerry Szoka's pirate station ("Grid Radio 96.9", dance and club music for downtown) remains on the air, despite losing some key FCC appeals. He was threatened by the FCC as long ago as 1997 but remained on the air. The FCC finally filed a Cease and Desist order on June 15, 1999, along with a \$11,000 fine. Szoka's claim was that the FCC has no authority to regulate micro-broadcasters running under less than 100 watts power. He also asked for a stay on his proceedings until the LPFM situation is resolved. The FCC said no on both issues. He hopes to be vindicated in his trail, set for December. The FCC has not shut him down yet, since it has not gotten any interference complaints.

• **PITTSBURGH, PA.** The FCC, with cooperation from the FBI, closed down Mark Lange's "Radio Carson", which operated on 91.7.

• Here's an interesting story to keep an eye out for: a group called Federal Signal (file #RM9719) has filed a petition for Rulemaking to designate

87.9 Mhz as a national "Emergency Radio Data System" frequency. We'll see if there is any more information on this proposal.

• Here's more on DAB developer Lucent Technologies: they have applied for experimental stations on 97.3 and 97.7 in Warren, New Jersey (near the Lucent Labs in Murray Hill). They will have a power of 10 watts, and will be used as an "experimental digital audio broadcasting station." They may also be testing adjacent channel interference, as they also have a testing agreement with WPST, 97.5, in nearby Trenton.

Another DAB story ... the FCC is entertaining a plan to allocate 82 - 88 Mhz for DAB, instead of using the existing AM and FM bands. That spectrum is currently in use by TV Channel 6, of course, but theoretically that will be vacated in 2006 with the transition to DTV. USA Digital Radio president Bob Struble is "ecstatic" with this FCC proposal. Another recent FCC proposal to eliminate second and third-adjacent channel interference protection, a move to ease the creation of Low Power FM.

**97.5 PST FM**  
**REAL MUSIC VARIETY**

Magic 93.9 FM  
**KKMK**  
 Magic 93.9  
**KKMK**  
 Listening Area



## THE BIG EISENHOWER FILM CAPER

(In August this column featured Bill Snyder's recollections of the early days at WDAY-TV in Fargo, ND. With thanks to Randy Miltier and permission from Bill Snyder to reprint portions of another 1992 *WORLD RADIO* column, we revisit the northern plains for another great tale.)

### WDAY-TV SCOOPS CO-OWNED NEWSPAPER

By: BILL SNYDER (WOLHS)

A couple months ago I wrote about some of my experiences in the early days of North Dakota TV.

I think what made those days in 1953 so much fun was the fact that only one of our employees had previous experience with small market TV, and as a result we had to invent our methods and techniques.

WDAY-TV, the station I worked for, was partially owned by the people who owned the local daily newspaper. The reporters for the newspaper were a good bunch of guys, but they looked down their noses at our ability to cover the news in the state of North Dakota.

22

We had only been on the air for about a week when the newsroom sent me and my cameras to Minot, 270 road miles northwest of Fargo. My assignment was to film the arrival of then-President Eisenhower at the Minot airport, then follow him the next day to Riverdale where Ike was scheduled to toss the first shovelful of earth to close the Garrison Dam across the Missouri River. The hydroelectric dam, a two-mile earth-filled project was one of the first big flood control efforts in the post-war period.

In Minot, I parked my car around the corner from the hotel where the President was to stay. Carrying two cameras I walked to the nearby Associated Press newspaper office where my press credentials were waiting for me. As I crossed the street a couple reporters from our own Fargo newspaper offered me a ride. I accepted.

"What are you doing up here?" a photographer asked.

"I'm shooting pictures of Ike's arrival at 6:30 tonight," I said.

"When do you plan on running them on TV? I'd like to see them," the other asked. I detected a bit of sarcasm in his voice. I suspected they thought we couldn't develop movie film rapidly.

"Oh, some Thursday," I said.

It was Thursday.

From the AP office we all rode the special press truck for photographers out to the airport and waited for Ike to arrive. At about 6:30 Air Force One and a press plane, both C-54s, arrived. Ike smiled happily as he came down the stairway and transferred to an open convertible for the ride to town.

I filmed the arrival and snapped a few stills. Then we all piled on the photo truck which took its place immediately ahead of the President's car in the procession. The press truck was now filled with a batch of photographers from newsreels, the TV networks and many news bureaus. When the procession arrived at the hotel we all scrambled for position to picture Ike walking into the hotel.

As Ike entered the building I filmed my last shot and raced around the corner to my car. At the airport I unloaded the cameras and handed the film to a pilot from the Fargo Air National Guard Squadron who "just happened to be there on a training mission." He jumped into his P-51 fighter and roared down the runway towards Fargo, 250 air miles away.

At the Fargo airport one of my assistants "just happened to be there" and he grabbed the film from the pilot and raced to our station.

Keep in mind that WDAY-TV was only about a week old.

We could only process 100 feet of film at a time on our primitive reel and tank processor. Our continuous 16mm developing machine had been on order for months but had not been delivered, so we made do with the \$30 reel processor.

The 16mm film was developed as a negative and the picture reversed to a positive in the film chain. It was a close shave time-wise, but those scenes of President Ike arriving 250 miles away in Minot hit the news program (less than four hours later) at 10:05 the same Thursday evening.

Well, as you might guess, the newspaper people in Fargo were awe-struck when they watched the 10 o'clock news and saw the big event in motion pictures.

The newspaper editor, who also owned stock in the broadcast company, called the TV news director and tried to figure out how we scored the beat. But our man successfully warded off complete disclosure.

The next day I followed Ike to the dam site and photographed the formal closing ceremony. Thousands of people gathered to hear the President. The chief engineer of our station and the news director flew to Riverdale in the engineer's Globe Swift airplane and carried the raw footage back for the early evening news. I headed back to Fargo by car. Along the way I stopped into a bar about 50 miles from home and watched our six o'clock news. The lead story featured clips from the

second and third three hundred feet of genuine newsfilm I had ever shot in my life. What a thrill for me!

That little caper (with the National Guard jet fighter) cost the station a bunch. In return for the "training flight," we made and exhibited public service recruiting announcements for the local Air Guard.

It was a good trade!

Editor's comments:

*Pioneer TV news photographers were in many cases the same person as the film director...as was the situation with Bill Snyder.*

*These guys were a breed unto themselves.*

*Capable of working incredibly long hours, they were also some of the most creative and innovative people on the face of the earth.*

*They had the guts to throw caution to the wind, break the rules, and make new ones as needed.*

*They were part mechanic, part alchemist, part magician, and part bloodhound.*

*With equipment that was usually primitive, they managed to chronicle major events of the time and get them to audiences with greater speed than had ever been possible before the advent of television.*

*There was no videotape. Microwave hookups for live coverage were a rarity; particularly in small markets.*

*Whether a scheduled event such as the Eisenhower visit, or an unexpected catastrophe 50 miles down the road, these were the guys who made it possible for us to see news being made almost first-hand.*

*While the on-air personalities got most of the glory, these camera-toting troopers were out in the trenches in all kinds of weather and at all hours of the day and night doing the nitty-gritty work.*

*If there are any true unsung heroes of pre-videotape newsgathering, they have to be that hardy breed of pioneer film directors who doubled as news photographers.*

23

# WESTERN TV-DX

December 1999

Dennis Park Smith, 3703 Dixon Street, Santa Barbara, CA 93105-2419 (805)687-7803

This report is for October 1999. Finally a hint of Autumn with some overall cooling in second half of month. Some tropo overall, barely good at two points, but deteriorating with cooling.

Oct 1-5: Variably poor  
 Oct 6-7: None (windy, layering dispersed)  
 Oct 8: Very poor, improving (layering gradually reforming)  
 Oct 9-11: Poor, improving (layering reforming)  
 Oct 12-13: Variably fair  
 Oct 14: Poor (Small low-pressure region came)  
 Oct 15: Very poor through, partially stirring up air  
 Oct 16 am: None (layers)  
 Oct 16 pm-19: Variably poor-fair  
 Oct 20-21: Poor  
 Oct 28 am: Very poor (Cold wx front)  
 Oct 28 pm-29 am: None  
 Oct 29 aft: Fair (KFMB-8 & KGTV-10 good)  
 [Oct 29 eve-31 aft, out of town in Wasco]  
 Oct 31 eve: Very poor

While new station K32ES SBarb (All News Channel, on air Sept 17) is a clear local signal at 4 mi, XHAS-33 Tijuana (Telemundo) can still be seen on occasional tropo at 200 mi on indoor bowtie.

No indication of XHTJB-3 this month until better tropo Oct 22. Seen only when at least some SDiego/Tijuana tr was good, this time only Oct 22 & 24 eve. I wonder if ERP is lower than before.

Nothing much in Wasco on Oct 29-31 except for slight tropo from Stockton-Sacramento Chs 3-10-13-31-40-48 at aprox 215 miles with simple outdoor antennas.

Best of DX to all. Dennis

William Eckberg, 1032 Sterling Rd., Dixon, IL 61021-9355

February 1999		CST
26tr 0145 K61EU	61MN, Austin TNN	220
0230 KSAX	42MN	404
March 1999		
15tr 0350 K52FN	52IA Muscatine TBN	88
August 1999		CDT
20tr 0315 WADE	59IL Peoria	68
29tr 0100 KWKB	20IA Iowa City	108
	0105 WOMS-LP 29 MI Muskegon	189
31tr 0800 KSAX	42MN	404
September 1999		
01tr 0205 KSAX	42MN	404
02tr 2340 KSAX	42MN	404
03tr 0415 KSAX	42MN	404
16ms 0300 CKCK	2SA	918

Victor Frank  
 12450 Skyline Blvd.  
 Woodside, CA 94062-4554  
 e-mail frank@horizon.srl.com  
 (650)851-7031

October 1999		
01ms 0330 CKCK	2SA	918
05tr 0530 WAFF	48AL	503
0600 WBMG	42AL	582
	WJSU 40AL	585
0630 WCFT	33AL	593
0755 WZDX	54AL	503
07tr 0145 WUNF	33NC	558
14tr 2300 WCFT	33AL	593
	2310 WUNF 33NC	558
20ms 0320 CKCK	2SA	918

The summer Es season was missed as I was hospitalized and ill. Since August 20, many periods of local enhancement out to 400 miles have occurred. I saw very little tropo. In the evenings, Ashville and Tuscaloosa 33 are seen on occasion to nearly 600 miles. Both appear every Fall when other tropo is nonexistent. The Indian-Head-type test pattern from Regina-2 is easily identifiable every AM over Cedar Rapids-2 via meteor scatter. Several new stations are on in the area and have been mentioned in the VUD.

Fernando Garcia, San Salvador 415, Rincon de la Sierra Cd Guadalupe, NL, 67181 MEXICO  
 ac001984@acnet.net,  
 FTD is furthest tropo of the day.  
 TSLD Total of stations logged of the day.

Equipment: Sony KV-27EXR15, Screened CM 7'dish 85', RG11, UA900 amp. Sony KV-13TR27, CM 1110 30', CM-8 bay UHF array 60' .1800' ASL,  
 No re-log in the same month, only tropo 500+ miles.

October 1			CDT
0000 WPMI	15 AL Mobile		838
	WHBR 33 FL Pensacola		838
	WVLA 33 LA Baton Rouge		633
	WMPV 21 AL Mobile		842
	KADN 15 LA Lafayette		586
0400 WNOL	38 LA New Orleans		694
	WPXL 49 LA New Orleans		688
	WUPL 54 LA Slidell		705
	WMAH 19 MS Biloxi		770
0415 WLAE	32 LA New Orleans		694
	WGNO 26 LA New Orleans		694
0430 WXXV	25 MS Gulfport		764
0600 WFSG	56 FL Panama City		929
2015 KLPB	24 LA Lafayette		567
2115 KVHP	29 LA Lake Charles		530
	TSLD:AL(2),FL(2),LA(9)MS(2)		
	FTD: FL Panama City		929
October 2			
0300 WLTV	38 GA Columbus a/u WNOL		1036
	WLPB 27 LA Baton Rouge		638
0315 K55HA	55 LA New Iberia		596
	WGMB 44 LA Baton Rouge		633
0330 WFXB	43 SC Myrtle Beach Test Pattrn		1396

## Western TV DX F. Garcia's report continues

WASV	62 NC Asheville Shop at Home	1239
0600 KXTX	39 TX Dallas	518
	KFWD 52 TX Fort Worth	522
	KDXT 58 TX Dallas	518
	KHSX 49 TX Irving	518
0615 KDAF	33 TX Dallas	518
	KTXA 21 TX Fort Worth	518
	KDFI 27 TX Dallas	518
	KETK 56 TX Jacksonville	532
	KFKX 51 TX Longview	557
0630 KPXD	68 TX Arlington	518
	KXAS-DT1 41 TX Dallas	
0645 KMSS	33 LA Shreveport	615
	KLTS 24 LA Shreveport	616
	K17BP 17 TX Palestine	502
0800 KASN	38 AR Pine Bluff	772
0815 KSHV	45 LA Shreveport	616
0930 KPXJ	21 LA Minden	640
	K30EA 30 TX Texarkana TBN	651
	W61BC 61 LA Shreveport BOX	614
	TSLD:AL(2),AR(1),GA(1),LA(16)MS(2),NC(1),	
SC(1),TX(12)		
	FTD: SC Myrtle Beach	1396
	1000+ mile opening this morning was very un-stable	
October 3		
	TSLD:LA(1),TX(2)	
	FTD: LA Lake Charles	530
October 6		
	TSLD:AL(1),FL(1),LA(8)	
	FTD: FL Pensacola	838
October 7		
	TSLD:LA(5),TX(3)	
	FTD: LA New Orleans	694
October 8		
	TSLD:LA(1),TX(2)	
	FTD: TX Longview	557
	I had trouble the night of Oct. 10 with rotor of UHF dish pointing south KAVU-25 was strong a couple of hours after the problem began. The problem was solved until Oct. 17 morning just a few hours before a cold front reached this area with wind and rain killing the DX. Oct. 16 DX was logged with CM-8 bay and R.Shack amp.	
October 16		
0230 WMAU	17 MS Bude	697
	TSLD:LA(3),MS(1)	
	FTD: MS Bude	697
October 20		
	TSLD:TX(1)	
	FTD: TX Dallas	518
October 22		
0730 WTTA	38 FL St. Petersburg	1116
	weak opening, short lived	
	TSLD:FL(1)	
	FTD: 38 FL St. Petersburg	1116
October 24		
	TSLD:TX(1)	
	FTD: TX Dallas	518
October 25		

TSLD:LA(6)			
FTD:	LA	New Orleans	694
October 26			
0130 WHNO	20 LA New Orleans		688
0345 WPAN	53 FL Fort Walton B.		869
	ACN shopping instead of VCC		
	KLTL 18 LA Lake Charles		548
0400 K66FI	66 LA Opelousas TBN		599
0415 K69HD	69 LA Church Point		586
	KLAF-LP 62 LA Opelousas		600
	K56DR 56 LA Baton Rouge TBN		633
	KPRC-DT1 35 TX Houston		
0530 KLAX	31 LA Alexandria		618
0545 K46DG	46 LA Lafayette		587
	K59DG 59 LA New Orleans TBN		688
	K49DE 49 LA New Iberia TBN		596
0600 WEIQ	42 AL Mobile		825
0615 KPLC	7 LA Lake Charles		548
	WAFB 9 LA Baton Rouge		638
	KATC 3 LA Lafayette		566
	WLOX 13 MS Biloxi		762
	K58EIT 58 LA Lake Charles running Family Net		
0630 K51EC	51 LA Lake Charles TBN		532
0700 WGBC	30 MS Meridian		834
	KLPA 25 LA Alexandria		619
0730 K46CR	46 LA Baton Rouge BOX		645
0745 ch 42 PraiseTV	seems to be North LA		
	KFXL-LP 30 TX Lufkin FOX-51		515
0800 KARD	14 LA West Monroe		659
	K52EV 52 LA Leesville FOX48 574		
	TSLD:AL(3),FL(1),LA(31),MS(4),TX(5)		
	FTD: FL Fort Walton B.		869
October 27			
	WHNO-20 running SS Rel. progr La Paloma Blanca		
0130 KWBJ-LP	39 LA Morgan City		618
	ACN shopping, 6 AM to regular progr.		
0430 W36AC	36 MS Mccomb TBN		710
	W50CF 50 AL Mobile WPAN-53		817
0445 W52BF	52 AL Mobile HSS		818
	WYES 12 LA New Orleans		693
	W29BH 29 MS Biloxi TBN		757
0500 K30EM	30 LA Houma		644
	ID as Gospel Television		
	W47BP 47 MS Hattiesburg MS		766
0515 W45AA	45 MS Columbia MS ed.		739
0530 W46AV	46 MS Pascagoula TBN		783
0545 K67GL	67 LA Bunkie FOX-48		614
	K47DW 47 LA Alexandria FOX48 611		
	K61GO 61 LA Hicks FOX.48		581
	unid ch 59 TBN north of New Orleans,		
	K59DG also in		
0600 WAPT	16 MS Jackson		754
	TSLD:AL(5),FL(2),LA(30),MS(10),TX(4)		
	FTD: FL Panama City		929
October 28			
	TSLD:LA(6),TX(1)		
	FTD: LA New Orleans		694
	October 2 and 22 1000+ mile DX was predicted by William Hepburn on his daily forecasts on the WTFDA mailing list.		
	73's Fernando		

## Western TV DX

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

August 1999		CDT
14 tr	2318 unid 42 TBN to N.E. - WCLJ?	
	2337 WDRBt 41KY Howard Stern	
15 tr	0019 unid 53 to N.E., Bloomberg nx	
	2200 KATV 7 AR news	305
19 tr	2214 KEDT 16TX calls on screen	425
20 tr	0721 WTJP 60AL	390
27 tr	0647 KVUE 24TX	395
	KXAN 36TX	395

September 1999  
No DX!

October 1999		
16 Es	1717 WTOM 4 MI "7 & 4" ID	1110
	1738 WCMLt 6 MI program match	
	1751 CITO 3 ON TV bingo,	
	Sudbury phone #s	1350
17 Es	1240 unid 4 SS	
18 Es	2049 unid 3 brief	
22 tr	2238 unid 58 Family Net to WSW	
27 tr	0712 KXAN 36TX	395

Danny Oglethorpe, P.O. Box 17452, Shreveport, LA 71138 Email: doglethorpe@yahoo.com

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

Es: Only the most productive day of each week.

September 1999		UTC
13Es	0120 XHFM 2 VER	900
28tr	0730 K26EY 26TX TBN	277
	0815 unID 34 SW; unID bars not // KAKW-62	

## October 1999

			UTC
2 tr	1320 unID 58 SW; TBN		
5 tr	1250 WCBI 7 AL APT		469
	1253 WNCB 32AL		436
	1307 WVTM 13AL		410
	1320 WCOV 20AL		436
	1340 WPBA 30GA "PBA"		551
	1345 WIAT 42AL		410
	WATL 36GA		551
	1347 WTBS 17GA		551
	1350 WGTX 46GA		551
	1410 WTJP 60AL		461
	WEMTt 39TN Note # 1		
	1415 WJSP 28GA GPTV		512
	1431 WNGM 34GA		610
	1532 WJSU 40AL		468
6 tr	1040 WNCB 32AL		436
	1058 WCOV 20AL		436
16Es	2210 KNAZ 2 AZ		1045
	2220 WGRZ 2 NY		1091
	2225 WCMH 4 OH		795
17Es	0025 KNAZ 2 AZ back		1045
	0030 KMOH 6 AZ Floating		1181
	0159 KNAZ 2 AZ still in		1045
	XHFM 2 VER		900
	unID 2 ON CTV		
	0203 WJBK 2 MI		904
	0205 WBBM 2 IL		737
	1459 XHG 4 JAL		1003
26tr	1205 KTLN 40TX Telemundo		515

Note # 1--This "Fox 39" station's programs (caught on tape) match WEMT's schedule on their web site.

Although this was likely WEMT-39, I'm hesitant to add it to my log because nothing else from TN was received at the time. On the other hand, it could not be any other "Fox 39" that I know about.

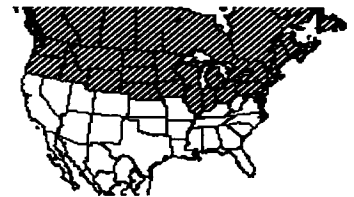
Comments: The rotor on my dish broke on 10-20, so I'm temporarily using a CM 4257 corner yagi with a Winegard AP-4700 preamp.

# NORTHERN FM DX

## DECEMBER 1999

DEADLINE: The 5<sup>th</sup> of the month before publication  
LOG CUTOFF: 4 months from postmark  
COLUMN REPORTING AREA: See map to the right  
(also includes Europe & Asia)

EDITOR: GREG CONIGLIO  
90 SLATE CREEK DRIVE APT. #3  
CHEEKTOWAGA, NEW YORK 14227  
E-MAIL: coniglio@localnet.com  
WEB: <http://www.geocities.com/~wgrt>



HAPPY HOLIDAYS TO WTFDA MEMBERS AND THEIR FAMILIES!!

JOHN EBELING - 9209 VINCENT AVE S - BLOOMINGTON, MINNESOTA 55431

Internet: jebeling@aol.com

DX from Alborn (Prosit) MN: (All tropo)

### JULY 1999 DX

#### 22 TR

2258	WBCT 93.7 MI Grand Rapids		
	"B-93 country"	439	
2300	WHID 88.1 WI Green Bay	281	
2331	WXXZ 95.3 MN Grand Marais		
	Repeats 92.1 kiss fm Duluth	119	

#### 24 TR

0900	WCLQ 89.5 WI Wausau	199	
28 TR			
1957	KEZG 107.3 NE Lincoln	474	
2000	KHKE 89.5 IA Cedar Falls	309	
2004	KHKI 97.3 IA Des Moines 'the hawk'	378	
2030	KSEZ 97.9 IA Sioux City 'z-98'	362	
2039	KRNA 94.1 IA Iowa City	372	
2042	KIWR 89.7 IA Council Bluffs		
	'the river'	428	

2052	KSDR 92.9 SD Watertown (thru local WSCD Duluth)	260	
2200	KAYA 91.3 NE Hubbard/Sioux City		
2203	KKMA 99.5 IA LeMars 'oldies 99'	339	
2211	KLKK 103.1 IA Clear Lake 'the fox'	270	
2213	KUOO 103.9 IA Spirit Lake	274	
2215	KIOW 107.3 IA Forest City	263	
2221	KESY 104.5 NE Omaha	429	
2230	KRAQ 105.7 MN Jackson	261	
2300	KXIA 101.1 IA Marshalltown	342	

#### 30 TR

0814	KJAM 103.1 SD Madison	301	
0830	KRSW 91.7 MN Worthington (over semi-local KAXE)	275	
0838	KRSU 91.3 MN Appleton	205	
0931	KUSD 89.7 SD Vermillion	360	
0941	KEXL 106.7 NE Norfolk	417	

### AUGUST 1999 DX

#### 8 TR

2143	KOAD 106.7 MN Babbit'xtr of kiss 92.1 Duluth'		
------	---	--	--

#### 9 TR

1602	WXXZ 95.3 MN Grand Marais	119	
------	---------------------------	-----	--

#### 17 TR

1250	KQKK 101.9 MN Walker	93	
------	----------------------	----	--

### SEPTEMBER 24, 1999 GW

2155	KBHA 105.5 MN Deer River' another kiss 92.1 Duluth' ---	10-11	
0800	KBFH 107.1 MN Moose Lake(Dual ID w/WKLK 96.5 Cloquet- at present, only 100 watts).		

Regards from  
John Ebeling

**KRSU 91.3 FM**  
CLASSICAL MUSIC

**KRSW 89.3 FM**  
CLASSICAL MUSIC

## SPECIAL REPORT

F2 TV DX in the 45, 48, and 49 MHz video carrier ranges was noted by VHF enthusiasts worldwide in November. The 16th of that month was especially good, with 48 MHz European video sync buzz heard strongly in the Great Lakes area of North America. Possible 49 MHz Eastern Bloc video carriers also were noted along the Atlantic coast at times! There have been a few days of the carriers being detected, usually as "video buzz" audio in the Northeastern U.S. and eastern Canada, with some DXers noting signs of video sync bars--and heavily-ghosted unidentified pictures. Although brief, the openings represented the best transAtlantic TV DX conditions in a decade, and as in the past, DXers along the coast and in the Canadian Maritimes definitely have the edge for such DX opportunities. Many North American TV DXers are now using better-than-ever setups (such as ICOM receivers with video adapters and 6-meter amateur quads and yagi antennas), but they face more local interference than ever before in the current sunspot cycle peak: hundreds of thousands of bargain-basement cordless phones and wireless "baby monitors" now operate in the prime frequency ranges. Watch the VUD for more detailed reports to come!

--Bill Thompson

# Southern FM DX

John Zondlo - 4009 Driftwood Circle - Yukon, OK 73099  
E-mail: jpzondlo@aol.com - Deadline: 10th  
For DXers in AL, AR, AZ, CA, CO, DE, DC, FL, GA, HI, KS, KY, LA, MD, MS, NC, NV, OK, SC, TN, TX, UT, VA, WV, Mexico & Cuba

## Merry Christmas

December 1999



Dan Oetting  
107 S. Tartan Dr.  
Elkton, MD 21921  
EDT

Harmon-Kardon Citation 23 tuner, Archer 10 element FM yagi @ 12' AGL in attic. All new.

Well, hurricane Floyd pushed us out of our house (basement wall completely collapsed) but we are now back in. Most of the DX listed here is from North East MD which is the next town over from Elkton. Didn't have my Citation 23 tuner during the incredible opening on October 15th and 16th, but managed some great catches on my Panasonic RF-2600 and my wife's car radio. That opening is one of the best I've heard this decade.

- 9/10 Tr  
2300 WNJZ 90.3 NJ Cape May Court House, NJN  
10/7 Tr  
2130 unID 88.7 PA? ??, CCM, "Word FM," repeats WBYO 88.9 (WBXY Stroudsburg, per WBYO website - jz)
- 2230 WVTF 89.1 VA Roanoke, c, pledge drive, knocking out WXHL completely  
2300 WBRF 98.1 VA Galax, gk, ID  
2312 WXLK 92.3 VA Roanoke, r, K-92  
2322 WPVR 94.9 VA Roanoke, ro, Arrow  
2328 WSLQ 99.1 VA Roanoke, rm, "Q-99," Delilah  
2351 WFCC 107.5 MA Chatham, c (not new but neat catch)
- 10/16 Super Tr  
0800 WHLZ 92.5 SC Manning, k, ad for TV-15 WPTE, "Wheels"
- 1130 WKGO 106.1 MD Cumberland, rm  
1134 WFRB 105.3 MD Frostburg, k  
1136 WROG 102.9 MD Cumberland, k  
1145 WVAO 102.3 VA Crozet, o  
1155 WUSQ 102.5 VA Winchester, k  
1157 WQKX 94.1 PA Sunbury, live remote  
1205 WFL0 95.7 VA Farmville, death notices (not new)

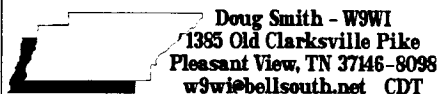
Tropo remained long haul until after 1700

- 10/22 Ms  
0846 CJRT 91.1 ON Toronto, calls  
10/30 Tr  
0930 WBRF 98.1 VA Galax, ok (not new)  
10/31 Gw

28 to Lancaster PA showed that pirates are still alive and in Lancaster. A SS mx 106.3 in with good mono signal.

maybe 100 watts? Signal not as strong as previous Lancaster pirate heard on 106.3 a year ago. A new pirate is on 100.9 in stereo with nothing but 80's pop and R&B mx with low volume and no talk ever.

Happy Holidays! Dan O.



Doug Smith - W9WI  
1385 Old Clarksville Pike  
Pleasant View, TN 37146-8098  
w9wi@bellsouth.net CDT

Technics ST-G50 tuner, big Radio Shack VHF-TV antenna at 15'

Nothing exotic, but some decent new ones. East Tennessee (WIMZ) is very rare here. Some very interesting things were in on UHF TV this night (10/6), but not much on FM.

- 10/5 Tr  
1111 WKNN 99.1 MS Pascagoula, "brad@k99fm.com," website IDs as WKNN 418  
1149 WZHT 105.7 AL Troy, "Hot 105.7" 309  
1211 WJLE 101.7 TN Smithville, local ad 77
- 10/6 Tr  
0111 WIMZ 103.5 TN Knoxville, "103-5 WIMZ" 187  
0656 WINL 98.5 AL Linden, "Win 98.5" 296
- 10/12 Tr  
0905 WGCA 88.5 IL Quincy, ID for K257DR Burlington (which translates WGCA) 338  
0907 WIBI 91.1 IL Carlinville, call ID 252  
0939 WQQL 101.9 IL Springfield 268  
0940 WXTM 104.1 IL Jerseyville 245  
0944 KGRS 107.3 IA Burlington, "Burlington's new Mix 107.3" 376
- 10/23 Tr  
0830 WDEN 105.3 GA Macon, local talk, heard on car radio while driving over Monteagle TN, distance measured from WSGM 104.7 Coalmont TN, the nearest broadcast station 207

FM DX Web  
Your resource for FM DXing

<http://members.aol.com/fmdxweb>

## Southern FM DX



John Tudenham - W0JRP  
2824 Missouri  
Joplin, MO 64804-2755  
CST

Onkyo tuner, 6 element yagi at 25'

- 10/31 Tr  
2100 KUSN 98.1 KS Dearing, new stn, "The best country mix," moved call and format from 98.9. Was listed as KKRK in CP. #92 from Kansas.



From the editor

Looks like the season is pretty much over, with not a whole lot of tropo this fall. Hopefully we'll have some great ES over the Christmas-New Year holiday week.

Thanks to all for supporting SFM this year!

December 1999



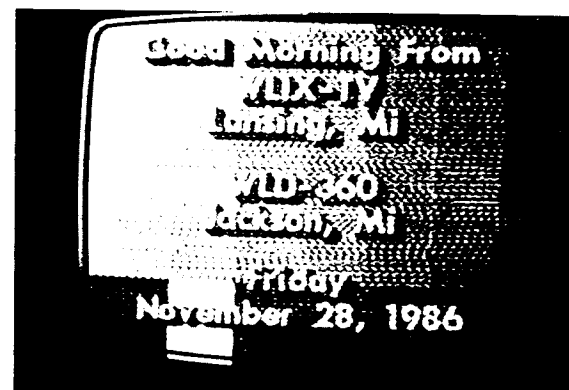
And there were shepherds living out in the fields nearby, keeping watch over their flocks at night. An angel of the Lord appeared to them, and the glory of the Lord shone around them, and they were terrified. But the angel said to them, "Do not be afraid. I bring you good news of great joy that will be for all the people. Today in the town of David a Savior has been born to you; he is Christ the Lord.

## Merry Christmas

The Zondlo family  
John, Carol, Christy & Joel

## Photo News December 1999 ...continued from page 5

Now here's another installment of 'Blooper DX' from Jeff (an oldie, but goodie):



"should be WILX"

73's and Merry DXmas,

*JTB*



# Classic V.U.D.

Original articles from the early days of the VUD...articles that stand the test of time. This one written by Ron Luoma and originally appearing in a Feb 1970 issue of the VUD. It has been updated for use in this VUD.

## The Rhombic

Every Dxer at sometime or other in his career has probably wondered what a rhombic antenna could do for his reception of those precious microvolts. Unfortunately, the space required for such a project rules out this receptor for most Dxers. However, when I got married a few years ago the ideal situation arose due to the fact that my wife's parents live on a forty acre farm in North Central Minnesota. The terrain is quite flat and the area is relatively free of strong VHF local stations.

Some hours were spent doing research on rhombics. The public library provided some information, but most information was read in the ARRL Amateur Radio Handbook and Terman's Radio Engineering. The motivating force, though, that led me to begin this project was the series of articles in July, August and September 1960 issues of Dxing Horizons which described a rhombic installation at Marathon, Ontario on the north shore of Lake Superior. I figured that if reasonable good results can be had of WBAY-2 at 300 plus miles, 142 mile reception here should be pretty good.

The name rhombic comes from the word rhombus, which means diamond-shaped. This is the configuration of the antenna as viewed from the top. After checking theoretical gain charts and practical considerations, I decided that 6 wavelengths on a leg would be my choice. However, maximum front-to-back ratio is desired, and to achieve this with a rhombic the leg length should be an odd multiple of 1/4 wavelength. So, I chose 5 and 3/4 wavelengths with channel 4 video at 67mhz as the design center. Using the formulas in the ARRL Handbook, the leg length came to 84.5 feet. The width or short diagonal came to 63.2 feet and the overall length or long diagonal came to 156.6 feet. The lead-in connection is made where the two long sides come together. If the opposite end of the lead connection point is left open, the antenna is narrowband working well only at the designed frequency, and works equally well in forward and back direction. So to achieve a broadband and unidirectional characteristic, the front end must terminate in an 800 ohm resistance which is the approximate characteristic impedance of the rhombic antenna. Because of this 800 ohms impedance, one cannot employ conventional 300 ohm line and expect good results. A logical choice for this problem would be a matching transformer for 800/300 ohms, but I have never seen one and do not have the equipment to build one. Another method would be to use a quarter wave matching stub, but this idea was discarded because such a device is frequency selective and this would defeat the broadband characteristic we desired in this installation. Another more practical inexpensive alternative is the tapered transmission line. It is constructed so that the antenna's 800 ohm impedance is connected to the 300 Ohm line by two 20-gauge wires gradually tapered from a distance of 7 inches to 7/16 inch between them. Polystyrene rods are used to maintain the correct taper. If this taper is done slowly in terms of wavelength, the power transfer is very efficient. In this installation the taper is accomplished over a distance of 25 feet...or just shy of 2 wavelengths on channel 4. I experimented with both the theoretical logarithmic taper and the practical linear taper as described by Terman, and found the linear definitely superior in performance.

A six wavelength rhombic is a very directional antenna with the main lobe being about 6 degrees wide at the 3db half-power points, with many minor lobes also existing. Orientation is quite critical and must be determined using a surveyor's instrument. I laid out the proper direction of the long axis of the antenna. I wrote to the Minnesota Dept of Highways to find out the magnetic declination in the area (the degree of variance between true north and magnetic north). With this information I was able to plot on a Highway Department map. I decided to construct the antenna with a provision to orientate it. Four 25 foot telephone poles are used to support the antenna; each has bolted to its top a double 2x4 extension

putting the total height to 35 feet. With four feet under the ground, the antenna height is actually about 30 feet. The front pole has attached to it a 12 foot crossarm at the top with a pulley system to allow a horizontal swing of about 10 feet, or 4 degrees. A tractor-mounted post-hole digger was found to be very useful to supplement a manual digger. Erection of the poles proved to be the most treacherous operation.

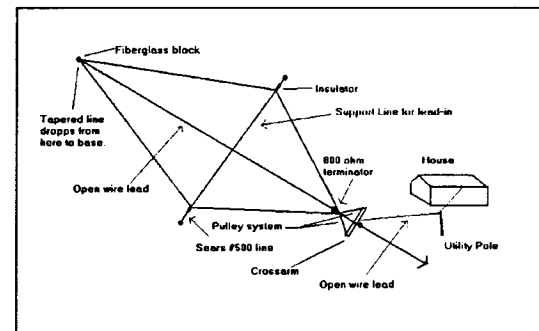
The antenna itself is constructed of #14 copperweld wire which I found to be more than adequate. In fact, any larger wire would be almost impossible to work with. E.F. Johnson #104 insulators were used as well as some custom-made fiberglass blocks for use at the antenna lead-in and terminating points. Antenna soldering and assembly were done near the house and carried to the location, raised into position with rope and pulley. Sears Rayon-core plastic clothesline was used to support the antenna from the poles; it claims a 500 lb. capability and after 18 months it is still in good condition.

I chose 300 ohm open-line because of its low loss characteristics and relatively low cost. Even though the conductors are #18 copperweld, I discovered from several line breaks that considerable support is necessary. A lighter weight Sears clothesline was strung parallel to the lead path with suspended snap-type standoffs holding onto the spacers of the open wire line.

A Winegard AP-83 preamp was installed at the head-end near the base of the tapered matching line, with lightning arrestors on either side of the preamp. Another arrestor was used at the point where the lead enters the house. This apparently wasn't good enough because the transistor has blown twice due to static electricity.

In rainy weather, line losses increases a couple dbs and can be seen on the TV screen, but otherwise loss is about 1.4 db in the 450 foot run of lead-in to the TV set

Now to the heart of the subject. How does this rhombic compare with the previously installed Winegard SP-55X? Comparisons are made without preamps on either antenna. I think results are good. A Jerrold signal strength meter indicates the rhombic gain slightly more than 6db on ch4, or double the voltage delivered by the Winegard. On KTCA-2 the gain is also 6db, and on KSTP-5 slightly lower at 4.7db.



Deep fades would occur occasionally but only last about 5 seconds. What actually appeared to be happening was multipath reception, cancelling each other when 180 degrees out of phase.

FM radio signals appear to be intercepted quite well too. The receiver used is probably not the best in sensitivity, but it delivered good stereo for 95% of the time from relatively low-powered short-towered stations in the Twin Cities.

Thus the rhombic has illustrated its broadband performance over the range of 54-108mhz. Performance on high band is bad, with about 6-8db less gain on ch9 than with the Winegard antenna. Because of the poor show on the high band, I decided to use this rhombic for the low and FM bands. A Winegard coupler is used to tap off the FM signals to feed the FM radio, while the remainder of the rhombic signal feeds the television.

Now you may say that this same signal increase on channel 4 could have been achieved with a pair of 8 or 10 element yagis, and this is probably true, although fading effects may be more severe with yagis due to the smaller capture area. However, what has been achieved is not only stacked yagi reception on channel 4, but also comparable increased strength on other channels and FM frequencies as well. In summation, high gain broadband performance has been achieved at lower cost than a comparable set of stacked yagis. And besides, most anyone can put up a few yagis, but who has the opportunity to engage in such a challenging project as this in his lifetime?