

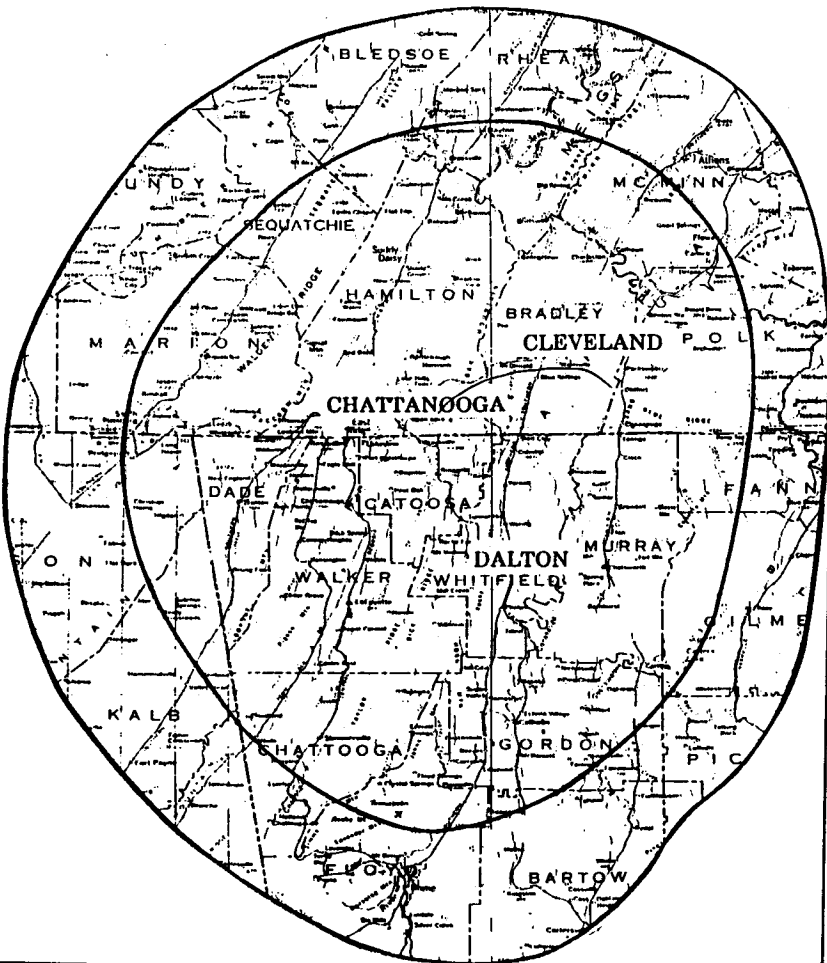
Vhf-Uhf DIGEST

The Official Publication of the Worldwide TV-FM DX Association

FEBRUARY 1999

TV 53 WFLI

Reaches 30 counties
Antenna height above mean
sea level 2049



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



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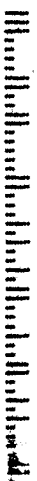
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WORLDWIDE TV-FM DX ASSOCIATION

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.

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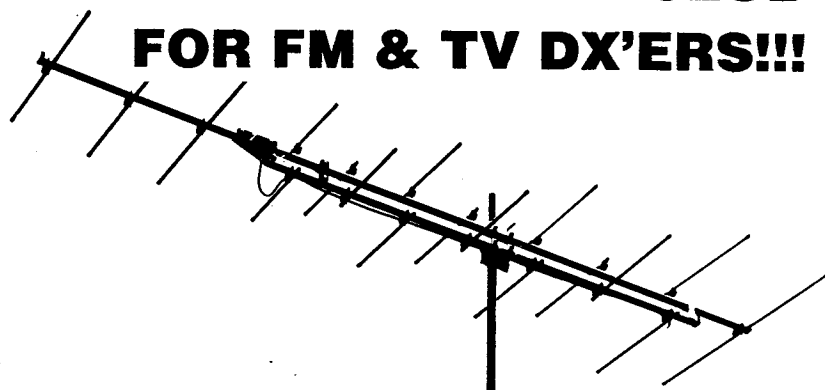
FROM THE STAFF:

APOLOGIES: A number of factors contributed to the extreme late printing and mailing of the January VUD. While every effort is made to get this publication to you as soon after the first of each month as possible, that goal can't always be attained. Again, we're sorry, and hope it won't happen again (at least anytime soon). The Editor/Publisher and Board of Directors regret any inconvenience it may have caused.

1999 CONVENTION: If you are interested in hosting the 1999 WTFDA convention this August, please contact Tom Bryant as soon as possible. His address can be found as part of the "TV TIME TUNNEL" logo elsewhere in this issue.

STAY TUNED: Coming up soon in this space; the 1998 financial report from Comptroller Dave Janowiak; a statement regarding our club's relationship with ANARC; and some computer-related items of interest.

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



WTFDA MAILBOX

P.O. Box 501
Somerville, CT 06072

Mike Bugaj

Ikon@netcom.com

NEW MEMBER

Winston Smith, Sunrise FL
Gil Morgan, Santa Ana, CA (rejoins)

RENEWALS

And so, it's February again. And for most of us it means snow, ice, sleet, frigid temperatures and a complete lack of TV or FM DX. But never fear...the Mailbox is here and so are the people who renewed for another year: **Jim Thomas, Melvyn Larson, John Erdner, Dave Janowiak** (he better renew...he has the club's checkbook), **Chester Jaffee, David Markson and Rick Shafton**. According to the email I have from **Winston Smith**, it seems like I should be able to find Winston somewhere in Jamaica swinging on a hammock. And if **Gil Morgan** was wondering just who gave him a membership for a year, well it was none other than **Santa Claus**, who made a special trip here from the North Pole to make certain Gil gets his VUDs. I'm wondering if this is the same **Gil Morgan** that I met back in 1971-72 when I was young and just married and living in an apartment in Anaheim, CA. Anyway, folks, lets throw a log on the fire, make ourselves comfortable and check out the goodies in the February VUD.

DIGITAL TV IN ATLANTA

Here's **Jim Ayers**, commenting on the digital tv articles in the last Mailbox: "Interesting comments on digital TV in your latest Mailbox! We already have three digital stations on-air in Atlanta with a CP for a 4th one. Both of my best tropo indicator channels are scheduled to be taken away by digital locals, eventually.

Too bad the analog counterparts to these digital stations aren't signing off as the digital ones come on. That would remove channel 2, 11, and 46 right now, plus channel 5 in the near future, as well. Then I'd have only one local left on VHF instead of the four that will all be on until the final day of analog, I'd guess.

I recognize these digital signals on my analog set thanks to the description of the signals provided by one of the club members in Houston, i.e., the "dark snow" you see from the digital signal on the analog rx.

There's also a distinctive audio "chugging" sound associated with the digital signals, but only one of my sets produces audio of this description. The other set (the far better receiver) produces the same "white noise" sound on a digital signal that we're all familiar with from vacant channels. This regular white noise is what I assume it should sound like for the average Dixer on a good receiver".

Well, folks, just recently WTNH-8, which is local strength and 50 miles south, began transmitting a digital signal on channel 10. What I have found is that the WTNH digital signal is an impenetrable solid wall of snow. It looks no different to me than an empty UHF channel. To my east I have WJAR-10 in Providence, RI, 70 miles to the east, which puts in a good solid semi-local signal in color. The WTNH digital signal makes it almost impossible to see WJAR now. All I get is some weak audio and a trace of a video signal. And this is with my antenna pointed east into WJAR. No doubt about it...the VHF band is starting to get messy, and unfortunately for all of us, it's going to get worse.

Join DWAL (Dxers without a life)

Make some coffee, open a beer, join us on IRC CHAT on IRCNET Tue or Fri nites
Channel #WTFDXA opens at 10pm EST

Trouble downloading mIRC? Email me. I'll download it and send it to you on disks.

VOTE FOR YOUR FAVORITE WEB SITE

Folks, I know a lot of you have computers out there. And there are some WTFDAers who have some great DX related web sites for you to visit. Why not visit the sites listed below, judge them for appearance and quality of information presented, and email me with your favorite and runner up sites. Next month we will publish the results right here. And yes, you can vote for your own site if you want to. I won't tell anyone. Here are the sites for your consideration:

1. John Zondlo's site <http://members.aol.com/fmdxweb/>
Southern FM column, DX alerts, lots of links to other clubs, fm dxing explained.
2. Paul Mount's site <http://members.aol.com/pmouninj/>
Info on mIRC, airchecks, all about Paul's dog Strider, etc
3. Pat Dyer's site <http://home.swbell.net/pjd/yer/index.html>
DX logs, VHF propagation, WWV, 50mhz sites, etc
4. Eric Bueneman's site <http://members.aol.com/n0uiheric/k-index.html>
Photos, bandscans, logbooks, etc.
5. Doug Smith's site <http://personal.bna.bellsouth.net/bna/w/9/w9wi/index.htm>
TV databases, USA/Canada/Mexico, digital tv, lptvs, etc
6. Matt Sittel's site <http://ourworld.compuserve.com/homepages/msittel/home.htm>
Weather Radio Page, Matt's NOAA page, weatheradio sites, dx photos, TV Guide info
7. Chip Kelley's site <http://www.metronet.com/~chipk>
USA TV database, also by state (TX,OK,LA)

EMAIL FROM THE FRIGID NORTH

This from John Ebeling: "Enjoyed the Dec. column of yours concerning the "Blast from the Past" regarding the old WTFDA TV Station Guide. I still have my dog-eared copy (red cover) and use it at the cabin in Prosit, MN. As you know, I primarily DX FM, but do keep track of TV Es as well. My issue is used as my log of TV stations I've received. It would be nice if, somehow, a new issue could be compiled. Looking at all the UHF changes happening now, perhaps a Channel 2-13 guide would be most likely to happen. Bring up the idea to the club members and see if any response is received. *I would be willing to put some time to the project if it ever happens.* About three or so years ago there was an attempt by someone to provide an updated LOW CHANNEL VHF guide showing logos of stations. I know I sent in logos from stations in the Twin Cities area. Perhaps an updated version of that might suffice." Would you be interested in creating a new Station Guide? You can contact John at ljebeling@aol.com, or write the mailbox.

MISC MAILBOX

Well, there's a little space left for some odds 'n ends. By now you all know that the January VUD was mailed out late due to weather problems in Buffalo. After I received a message from Bill about the situation I tried emailing as many people as possible. Unfortunately, many of those messages bounced back. Then I posted the information on the qth.net server for those members who subscribe to that dx list. However, many of you had no idea that the VUD would be late, and there wasn't much else we could do except ask those who knew about the delay to pass the info on to those who didn't. Anyway, sooner or later the snow will melt in Buffalo, the sun will come out, the birds will sing, and the VUD will be back on schedule.

Next month we'll have part of an email I got recently from a TV Dixer in Argentina. And if turns out to be a slow month, I'll add some email from dxers in England and Australia. That's it for February. Keep warm, and remember, don't forget to write! -Mike

TV News

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

February 1999

non-commercial station
nc no change

Applications for new stations

St	Ch	ERP	Ht.	City	Applicant	Latitude	Longitude
AZ	29^	707	527	Phoenix	#KAET [8]	33-20-00	112-03-49
CA	61^	148.8	948	Long Beach	KSCI [18]	34-13-37	118-03-58
CA	43^	300	947	Los Angeles	KCAL [9]	34-13-38	118-04-00
CA	53^	1000	566	Sacramento	#KVIE [6]	38-16-18	121-30-18
CA	18^	145	580	San Diego	KUSI [51]	32-41-50	116-56-04
CA	19^	200	428	San Francisco	KBWB [20]	37-45-19	122-27-06
CA	12^	8.9	834	San Jose	KNTV [11]	37-06-40	121-50-34
CA	49^	200	688	San Jose	KSTS [48]	37-29-57	121-52-16
GA	23^	200	413	Savannah	WJCL [22]	32-03-29	81-20-19
IL	47^	200	465	Chicago	#WTTW[11]	41-52-44	87-38-10
IN	36^	50	455	Hammond	WJYS [62]	41-52-44	87-38-10
MA	21^	1000	466	Minneapolis	WFTC [29]	45-04-05	93-10-29
TN	27^	946	411	Nashville	WKRN [2]	36-02-50	86-49-49
WI	34^	833	340	Milwaukee	WISN [12]	43-06-42	87-55-42

WJYS-DT specifies an antenna on the Sears Tower in Chicago, some 40km north of its current site. I wonder if that can be granted, in light of the presence of NTSC station WMVT on channel 36 in Milwaukee, just 150km to the north?

Construction permits granted for new stations

St	Ch	ERP	Ht./Call	City	Applicant	Latitude	Longitude
CA	44^	46	642	Clovis	KGMC [43]	36-44-46	119-16-57
MA	29^	46	457	Worcester	WUNI [27]	42-20-07	71-42-54
NM	14-	5000	376	Albuquerque	Roberts	35-46-50	106-31-35
NY	28^	178	448	New York	WNBC [4]	40-42-43	74-00-49
VI	15z	75.6	348	C'sted	Winstar	17-45-20	64-47-55

New station permits expired, dismissed, etc.:

St	City	Ch	# permits	St	City	Ch	# permits
NM	Albuquerque	14	3	VI	Christiansted	15	2

Applications to change existing stations

St	Ch	ERP	HAAT	City	Call	Latitude	Longitude
CA	19+	9.93		Indio	K19DH		
CA	53+	9.40		Indio	K53EL		
CA	18-	2375	944	Long Beach	KSCI	34-15-37	118-03-58
MA	5-	61.7	395	Boston	WCVB-TV		

Applications to change construction permits

St	Ch	ERP	HAAT	City	Call	Latitude	Longitude
AR	23z	22.4	~105	El Dorado	K23EP	33-12-10	92-39-06
CO	19^	1000	nc	Denver	KTVD-DT		
MA	31^	nc	330	Boston	WFXT-DT		
OH	55+	12.5		Centerville	WWRD-LP		
OR	32z	nc	nc	Salem	KWBP	45-00-35	122-20-17
TX	59n	8.61		Plainview	K59GC	34-13-14	101-42-54
VI	27z	26.7	nc	Christiansted	WCVI-TV		
VT	39z	23.4		Barre	WBVT-LP	44-10-35	72-26-39

Changes granted to existing stations

St	Ch	ERP	HAAT	City	Call	Latitude	Longitude
CA	51z	nc	nc	San Diego	KUSI-TV	32-41-49	116-56-05
IL	26z	5000	nc	Chicago	WCIU-TV		
LA	8+	nc	nc	Monroe	KNOE-TV	32-11-50	92-04-14
MN	58n	7	~250	Minneapolis	K58BS		
NC	26-	2350	nc	Wilmington	WSFX-TV		
OK	52z	3000	461	Oklahoma City	KSBI	35-35-54	97-29-25
ON	11-	162	note	Kingston	CKWS-TV		
PA	23-	700	nc	Altoona	WATM-TV		
SC	25-	5000	518	Columbia	WOLO-TV	34-06-59	80-45-50
TN	19z	3890	705	Kingsport	WKPT-TV		
TX	11-	nc	518	Fort Worth	KTVT		
VA	13-	177	363	Hampton	WVEC-TV	36-49-00	76-28-06

CKWS-TV's HAAT has increased, but the notice didn't mention the new figure. The Industry Canada database says 257 meters, but it also says the power is 325KW...

Changes granted to construction permits

St	Ch	ERP	HAAT	City	Call	Latitude	Longitude
AL	28-	16.3	~122	Birmingham	W28BR	33-28-18	86-50-03
CA	31^	310	nc	Los Angeles	KTLA-DT		
FL	48z	30	~161	Miami	W48CI		
IL	34z	0.5	~450	Arlington Heights	W34CK	41-52-44	87-38-10
MN	47-	1500	nc	Rochester	KXLT-TV		
NE	17z	3890	186	Grand Island	KTVG	40-43-44	98-34-13
NM	19-	5000	376	Santa Fe	KWBQ	35-24-44	106-43-32
SD	5+	nc	299	Mitchell	KDLV-TV		
SD	46z	4000	589	Sioux Falls	KDLT-TV		
VA	39+	50	~131	Newport News	W39BW	36-51-40	76-21-12

W34CK's new site is on the Sears Tower in downtown Chicago.

Changes expired, dismissed, etc.

St	City	Ch	Call	St	City	Ch	Call
AK	Anchorage	6	K06LY	FL	Panama City	28	WPGX
CA	National C.	61	K61GH				

LPTV Displacement applications

St	City	Call	Fm	To	St	City	Call	Fm	To
CA	Payne's Ck.	K20FP	20z	38+	OH	Eastlake	W67AL	67n	63+
CA	Sta. Barb.	K61AI	61n	26z	OR	Eugene	K63GC	63-	36+
CA	Sta. Barb.	KWHY-LP	65n	22+	OR	Eugene	K68BF	68n	21-
CO	Bayfield	K63BN	63n	50-	OR	Hood River	K40AM	40n	34+
CO	Ft. Collins	K35EQ	35-	56-	SC	Myrtle Bch.	W67DI	67z	28
FL	Fort Myers	W67BY	67-	17+	TX	Abilene	K63FL	63n	56+
FL	Fort Myers	W67BY	67-	38+	TX	Big Spring	K30DW	30n	46+
FL	Palatka	WJGV-LP	49-	48	TX	Clear Lake	KJIB-LP	5-	34z
MN	Duluth	KDUL-LP	60+	12z	TX	Ft. Stocktn	K30EI	30n	25+
MN	La Crescent	KQEG-LP	50n	23-	TX	Livingston	KETX-LP	5+	7+
NM	Carlsbad	K63CK	63z	59+	TX	Seminole	K45EG	45n	49+
NM	Clovis	K65BT	65n	34+	TX	Welch	K19DK	19n	54+
NM	Hobbs	K18DK	18-	52+	UT	Tooele	K24CQ	24n	54n

W12BK Nappanee, Indiana requests a substantial power increase & move to Niles, Michigan. Yes, W67BY really did file two displacement applications for two different channels.

LPTV Displacements granted

St	City	Call	Fm	To	St	City	Call	Fm	To
AL	Tuscaloosa	WJRD-LP	49+	7+	NM	Carlsbad	K47FX	31n	47+
FL	Coral Sprs.	WHDT-LP	55+	44+	NM	Grants	K46FI	20n	46+
FL	W Palm Bch.	W57CX	53n	57+	OH	Masury	W31BW	40-	31-
LA	Crowley	KFAM-LP	65n	59n					

W31BW (ex-W40AM) specifies a transmitter site in Pennsylvania.

LPTV Displacements Dismissed/Denied

St	City	Call	Fm	To	St	City	Call	Fm	To
AR	Fayettevll.	K36EA	36+	32z	MI	Dearborn	W68CH	68-	33+
AR	Paris	K60EP	60n	51+	OK	Nowata	K60EX	60n	25+
MA	Dennis	W67BA	67n	24+	OK	Poteau	K50CO	50n	16+

W67BA still has an active application for channel 33z.

Technical changes on the air

St	Ch	Call	City	What happened
PA	7+	W07DC	Allentown	move from ch. 26-, decrease power 1.7KW>100 watts. (Ex-W26AD)
UT	12-	KUTN-LP	Logan	increase power 39 watts>1.37KW, increase tower height 331m, move about 12km north-northeast.

New stations on the air or requesting operating license

St	Ch	ERP	HAAT	Call	City	Latitude	Longitude
AR	54	?		K54ER	Jonesboro		
AZ	52z	1.24	~131	K52EG	Yuma	34-40-23	114-20-16
CA	36^	380	991	KNBC-DT	Los Angeles	34-13-32	118-03-52
CA	50z	1.06		K50EW	Lucerne Vly.	34-27-47	116-52-44
CA	24^	561	437	KGO-DT	San Francisco	37-45-19	122-27-06
IN	9^	15.8	284	WISH-DT	Indianapolis	39-53-25	86-12-20
IN	46^	250	267	WTHR-DT	Indianapolis	39-55-43	86-10-55

New stations on the air or requesting operating license

St	Ch	ERP	HAAT	Call	City	Latitude	Longitude
LA	11+	316	540	KAQY	Columbia	32-05-41	92-10-39
MA	20^	200	191	WCVB-DT	Boston	42-18-37	71-14-14
MI	18-	17.4	-60	W18BT	Alpena	45-09-22	83-27-54
NV	7+	0.89	650	KWNV	Winnemucca	41-00-41	117-45-59
OH	21^	440	212	WBNS-DT	Columbus	39-58-16	83-01-40
OH	30z	1350 2040	357 358	WHCP	Portsmouth	38-45-42	83-03-41
OR	11-	316	472	KAUP	Pendleton	45-44-51	118-02-11
PA	26^	770	375	KYW-DT	Philadelphia	40-02-33	75-14-33
TX	41^	891	506	KXAS-DT	Fort Worth	32-35-07	96-58-06
WV	56-	47.4	-90	W56DT	Charleston	38-22-32	81-39-25
WV	28+	0.95		W28AS	Wheeling	40-03-41	80-45-08

K54ER is not in the FCC Database. WHCP [30] operated briefly as WUXA before going dark with financial problems in the early 1980s. It operated on a construction permit & never got an operating license.

Stations deleted/dismissed/off air/etc.

St	Call	St	Call	St	Call	St	Call	St	Call
FL	W16BH	IA	K14JR	ID	K51FI	MS	W46CP	MS	W64CJ
OK	K65GO	WI	W34CG	NY	W64AA				

The Duluth, Minnesota wireless-cable system has been reported dark. Stations involved are K15DU, K27EH, K30ED, K32DQ, K34DY, K38DS, K56FH, and K60EZ. As you can see in *LPTV Displacements*, K60EZ has been sold, changed calls, and presumably plans to return to the air.

Call changes

Was:	Now:	City:	Ch	Was:	Now:	City:	Ch:
K39BI	KDTP-LP	Phoenix, AZ	39	WAZW	WTPX	Antigo, WI	46
K52AO	KUVE-LP	Tucson, AZ	52	KPSG	KAUT-TV	Okla. C, OK	43
WPXO	KPXJ	Minden, LA	21	W32BQ	WHVI-LP	Knoxvl., TN	32
K60EZ	KDUL-LP	Duluth, MN	60	W10BI	WVIE-LP	Nashvl., TN	10
New	KAPX	Albuq., NM	14	K59FQ	KUNU-LP	Victoria, TX	59
K61EQ	KYNM-LP	Albuq., NM	61	K39DH	KTLE-LP	Ogden, UT	39

Programming changes

Call	Location	Programming
W15AZ	Alabaster, AL	sold to Birmingham religious school.
K48DY	Coalinga, CA	sold to owner of KGMC [43]. (but he owns many area LPTVs with other programming)
KWOK [68]	Novato, CA	sold to former owners of WCFC [38] Chicago, a religious group.
W48CI	Miami, FL	back on the air with HSN.
WBSV-TV [62]	Venice, FL	sold to Univision.
WREP-LP [15]	Martinsville, IN	sold to local school district.
KAQY [11]	Columbia, LA	new, ABC for Monroe.
WLPC-LP [26]	Detroit, MI	CTN religion.
WDWO-LP [44]	Detroit, MI	TBN.

Programming changes

Call	Location	Programming
WADL [38]	Mt. Clemens, MI	general independent, plus Fox Kids. <u>Not</u> Pax.
K45CA	C. Girardeau, MO	sold to WTCT [27], religious/TBN.
KAPX [14]	Albuquerque, NM	presumably will be Pax when built.
K06BN	Wagon Mound, NM	sold to KRQE [13], CBS.
KWNV [7]	Winnemucca, NV	new, satellite of KRNW [4], NBC.
WMHQ [45]	Schenectady, NY	sold to Sinclair, to go from PBS to a commercial net (prob. WB)
KAUP [11]	Pendleton, OR	reported new to air with Fox.

Forum & Other Stuff

Thanks to Danny Oglethorpe, Fernando Garcia, Karl Zuk, Chip Kelley, and Jeff Kadet for information appearing elsewhere in this column.

Fernando reports the "FTN" religious network in southern Texas is planning three more affiliates in 1999. Channel 28 in Brownsville is K17EK. (This was originally granted for channel 17, and then rather quickly realized channel 17 wouldn't work with full-power XHFOX operating just across the border! It has applied to move to channel 28.) Also mentioned are a channel 25 (presumably K69HZ McAllen, which is being displaced by DTV and has applied for channel 25) and a channel 21. (I'm presuming K67HC McAllen, also being displaced by DTV. I suppose K20FK Brownsville - yet another DTV victim - is a possibility.)

Fernando has also received an e-mail from ex-member Chris Dunne in Florida, reporting W48CI back on the air with HSN. This is the former W27AQ.

Danny and Jeff Kruszka both provided early reports of KAQY [11] testing, and coming on the air with ABC. I saw the station myself a few days later, with the general manager welcoming viewers. Danny also reports KMSS [33] Shreveport off the air as of 8 December 1998, due to antenna problems. I would presume it's now back on the air, though I've not heard that for certain. Bad weather would certainly have made repair difficult!

Frequent Es target XHFM [2] Veracruz made an appearance at Danny's location on New Year's Day. They're using new ids & promos which use their calls and a large "Canal 2" logo.

The channel 21 station at Minden (Shreveport), Louisiana had originally been assigned WPXO, and used those calls on the air. A quick look at a map shows Minden is quite a distance west of the Mississippi River; the station should never have been assigned a W call. I'm not sure whether the FCC realized its mistake & required the call change, or if Paxson decided to ask for it. The Public Notice treated it as the assignment of the first callsign to a totally new station.

KAUP [11] is in the Richland/Pasco/Kennewick/Yakima (Washington) market, which already has two Fox affiliates, KBWU-LP [66] and KCYU-LP [68]. However, the KAUP transmitter is at least 80km east-southeast of the other Richland/Pasco/Kennewick transmitters - and even further from Yakima. I doubt KCYU's Fox affiliation is in jeopardy. KBWU's might be but I wouldn't bet on that either.

I've found some DTV information from other countries. The Canadian DTV plan is fundamentally similar to the US plan, except that Canada considered low-power stations in their allocation decisions. Also, where a Canadian station is operating at less than the maximum power for its "class", its DTV channel will be allocated on the assumption it is using maximum power. (Canada has six "classes" of TV station - the U.S. only has two, "full power" and "LPTV", and the latter is not considered in DTV channel allocations) The plan I have is dated June 1997 (and thus has presumably since been revised) but indicates first priority in Canada is to use channels 7-13, then 14-59, then 2-6, then 60-69 as a last resort. Power limits (if I read things properly..) are 6.97KW on channels 2-6, 3.33KW on 7-13, and 254.1KW on UHF.

Well, I've seen absolutely no winter Es here this year... Did have a couple of interesting tropo openings before the cold weather set in, including a logging of new KAQY [11]. It's not every day you see a completely new high-band VHF station! Here's hoping you're seeing interesting DX wherever you are...

Canadian DTV Channel Plan

I've recently acquired a copy of the Canadian DTV plan. It should be noted this channel table is dated June 1997 - and thus has probably been revised somewhat since then. For reasons of space, I've deleted all stations of class "LP" and all unused allocations. (unlike the US, the Canadian plan did allocate DTV channels for unused NTSC allocations and for LPTVs.) The table shows first the province, then the city, then the callsign, then the old (NTSC) channel, and finally the new (DTV) channel. All stations whose calls don't start with the letters "CB" - or which do start with "CB" but the last letter isn't "T" - have a -TV in them. For example, the first station in the table is actually CFRN-TV-4, and the channel 12 (NTSC) station in Etzikom, AB is CBCA-TV-1. There were two discrepancies in the table; the notes appear at the end.

Pr	City	Call	Fm	To	Pr	City	Call	Fm	To
AB	Ashmont	CFRN-4	12	43	AB	Hinton	CBXFT-7	3	13
AB	Athabasca	CFRN-12	13	41	AB	Hinton	CBXT-3	8	20
AB	Athabasca	CBXT-1	8	16	AB	Jean d'Or	CBXAT-9	13	7
AB	Bonnyville	CBXFT-1	6	54	AB	Lac la Biche	CBXT-5	10	46
AB	Bonnyville	CKSA-2	9	33	AB	Lac la Biche	CFRN-5	2	39
AB	Burmis	CISA-1	3	22	AB	Lethbridge	CBRT-6	10	19
AB	Burmis	CBRT-8	47	32	AB	Lethbridge	CFCN-5	13	43
AB	Burmis	CFCN-4	5	18	AB	Lethbridge	CJIL	17	33
AB	Calgary	CIAN	13	51	AB	Lethbridge	CKAL-1	2	46
AB	Calgary	CBRFT	16	21	AB	Lethbridge	CBXFT-3	23	31
AB	Calgary	CICT	2	54	AB	Lethbridge	CISA	7	58
AB	Calgary	CFCN	4	56	AB	Lloydminster	CKSA	2	48
AB	Calgary	CKAL	5	52	AB	Lloydminster	CITL	4	57
AB	Chateh	CBXAT-7	5	40	AB	Lougheed	CFRN-7	7	23
AB	Coronation	CKRD-1	10	30	AB	Manning	CBXAT-3	12	23
AB	Coutts	CBRT-16	4	20	AB	Medicine Hat	CBXFT-11	34	22
AB	Drumheller	CFCN-1	12	17	AB	Medicine Hat	CHAT	6	40
AB	Edmonton	CBXFT	11	65	AB	Medicine Hat	CFCN-8	8	50
AB	Edmonton	CITV	13	47	AB	Oyen	CFCN-16	2	44
AB	Edmonton	CFRN	3	59	AB	Peace River	CFRN-2	3	15
AB	Edmonton	CBXT	5	42	AB	Peace River	CBXAT-1	7	8
AB	Edmonton	CKEM	51	44	AB	Peace River	CBXFT-5	9	21
AB	Edmonton	CJAL	9	31	AB	Pivot	CHAT-1	4	29
AB	Etzikom	CBCA-1	12	15	AB	Plamondon	CBXFT-9	22	21
AB	Falher	CBXFT-2	6	46	AB	Red Deer	CITV-1	10	34
AB	Forestburg	CBXT-12	52	35	AB	Red Deer	CKEM-1	20	45
AB	Ft. McMurray	CBXFT-6	12	48	AB	Red Deer	CBXFT-4	31	39
AB	Ft. McMurray	CBXT-6	9	11	AB	Red Deer	CKRD	6	28
AB	Ft. Vermilion	CBXAT-5	11	14	AB	Red Deer	CFRN-6	8	53
AB	Grande Prairie	CBXAT	10	41	AB	Rocky Mtn. House	CFRN-10	12	15
AB	Grande Prairie	CFRN-1	13	32	AB	Rosemary	CBRT-5	11	42
AB	Grande Prairie	CBXFT-8	19	17	AB	Slave Lake	CBXAT-11	11	27
AB	Grouard Mission	CFRN-8	18	40	AB	Slave Lake	CFRN-9	4	19
AB	High Level	CBXAT-4	8	22	AB	Whitecourt	CFRN-3	12	22
AB	High Prairie	CBXAT-2	2	39	AB	Whitecourt	CBXT-2	9	7

BC	100 Mile House	CIIM	3	21	BC	Nelson	CKTN-3	3	18
BC	100 Mile House	CFJC-6	5	23	BC	Nelson	CBUCT	9	21
BC	Alert Bay	CBUT-16	11	31	BC	New Denver	CBUCT-6	17	15
BC	Bonnington Fls	CBUDT	13	45	BC	Oliver	CKKM	3	28
BC	Burns Lake	CKHS	13	55	BC	Oliver	CHBC-3	8	51
BC	Burns Lake	CBCY-1	4	32	BC	Ootsa Lake	CHHH	10	50
BC	Burns Lake	CH4333	7	30	BC	Ootsa Lake	CHBL	11	58
BC	Campbell River	CHEK-5	13	20	BC	Ootsa Lake	CH4467	5	59
BC	Canal Flats	CBUBT-1	12	50	BC	Pemberton	CBUPT	4	40
BC	Chetwynd	CBCD-2	7	57	BC	Penticton	CHKL-1	10	49
BC	Chilliwack	CBUFT-6	14	15	BC	Penticton	CHBC-1	13	40
BC	Chilliwack	CBUT-2	3	46	BC	Port Hardy	CBUT-19	6	14
BC	Clinton	CFJC-4	9	41	BC	Prince George	CIFG	12	20
BC	Courtenay	CHAN-4	11	21	BC	Prince George	CKPG	2	34
BC	Courtenay	CKVU-1	5	29	BC	Prince George	CBUFT-4	4	14
BC	Courtenay	CBUT-1	9	49	BC	Prince Rupert	CFTK-1	6	7
BC	Cranbrook	CBUBT-7	10	48	BC	Purden Lake	CBUHT-1	10	22
BC	Cranbrook	CFCN-9	5	44	BC	Radium Hot Spr	CBUBT-5	17	47
BC	Crawford Bay	CBUCT-1	5	34	BC	Salmon Arm	CHBC-4	9	33
BC	Creston	CBUCT-2	3	14	BC	Smithers	CFHO-1	13	33
BC	Dawson Creek	CBUFT-5	33	14	BC	Smithers	CBCY-2	5	29
BC	Dawson Creek	CJDC	5	31	BC	Sparwood	CBUBT-10	11	26
BC	Enderby	CHBC-5	16	36	BC	Spillimacheen	CBUBT-6	69	39
BC	Fernie	CBUBT-8	21	23	BC	Terrace	CBUFT-3	11	34
BC	Fernie	CBUBT-9	8	30	BC	Terrace	CFTK	3	35
BC	Fort Fraser	CBCB-2	13	53	BC	Trail	CBUAT	11	17
BC	Fort Nelson	CBUGT	8	7	BC	Trail	CKTN	8	42
BC	Ft. St. John	CBCD-3	9	44	BC	Valemount	CBUHT-5	12	32
BC	Fraser Lake	CFFL-1	9	57	BC	Vancouver	CKVU	10	47
BC	Golden	CBUBT-2	13	41	BC	Vancouver	CBUT	2	58
BC	Hazelton	CHHZ	9	51	BC	Vancouver	CBUFT	26	16
BC	Horsefly	CH4385	10	15	BC	Vancouver	CIVT	32	33
BC	Houston	CBCY	2	22	BC	Vancouver	CHAN	8	22
BC	Houston	CFHO	8	36	BC	Vernon	CHKL-2	12	53
BC	Kamloops	CFJC	4	43	BC	Vernon	CHBC-2	7	52
BC	Kamloops	CBUFT-2	50	29	BC	Victoria	CIYV-2	29	54
BC	Kamloops	CHKM	6	55	BC	Victoria	CHEK	6	68
BC	Kelowna	CHBC	2	59	BC	Whistler	CBUWT	13	34
BC	Kelowna	CBUFT-1	21	24	BC	Wilson Creek	CHAN-6	23	51
BC	Kelowna	CHKL	5	67	BC	Woss Camp	CBUT-13	12	51
BC	McBride	CBUHT-3	6	40	MB	Manigotagan	CBWGT-3	22	16

More to follow next month.

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FM NEWS

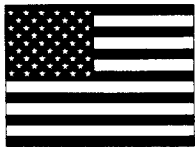
FEBRUARY 1999

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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
	ARKANSAS: Cherry Valley: *** 99.3 PA: add class A Forrest City: KARH 88.1 NC to 3.7 kW, RE (2 nd) Maumelle: KWLR 96.9 CC (ex KSIZ), FC to Life Talk religion Monticello: KHBM 93.7 QC from 93.5, PC> 15 kW, 423 ft, XC: 33-46-45 / 91-43-02 Pine Bluff: KANX 91.1 NC to 16.5 kW, 522 ft, C2, XC, CL: Sheridan, AR, RE	CALIFORNIA: Alameda: KZSF 92.7 dec. to 394 ft. Bena: K213CT 90.5 NS-10w: KAWZ-ID California City: KCEL 106.9 NO-GE E.Porterville: KOJJ 100.5 NC to 2.1 kW, 1109 ft, B1, RX Grass Vly: KLV5 99.3 PC> 640w, 1056 ft. Hams Station: *NS 90.1 AF Indio: KJJZ 102.3 PC> 2.6 kW, 331 ft. XC: 33-52-14 / 116-13-39 Lakehead: K207CT 89.3 NS-10w(v), DA: KAWZ Lemon Grove: K210CL 89.9 NS-10w: KLVJ Merced: KBKY 94.1 CC (NS) Roseville: KRAK 93.7 FC to clas hits. (Sacro) San Clemente: KWVE 107.9 NC to 560w, 3690 ft, DA, RX (4 th) San Diego: KPBS 89.5 NC to 26 kW, 676', RE San Luis Obispo: KPAT 88.5 NO-RX (2 nd) Santa Paula: KCZN 96.7 NC to 280w, RE (3 rd) Sutter Creek: KSAC 107.5 NW, JRN Bonita Regional Mexican (&) Weaverville: KAWX 103.1 NO-RE Weed: KWHO 102.3 PG> 15.5 kW, 1942 ft, XG: 41-21-30 / 122-12-21 West Covina: KRTO 98.3 PC< 600w, 1004 ft.



UNITED STATES

ALABAMA:

Brantley: WAOQ 100.3 XG: 31-42-26 / 86-13-12
 Cedartown: WJCK 88.3 NC to 27 kW, 1001 ft, DA, XC, RE
 Citronelle: WQUA 102.1 FC to urban gold (Mobile)
 Demopolis: WZNJ 106.5 NC to 25 kW, RE

ALASKA:

a

ARIZONA:

Benson: KAWV 97.7 NC to 6 kW, RE (2nd), XC: 31-59-29 / 110-10-21
 Florence: KCDX 103.1 NO-RE (5th)
 Page: KNAD 91.7 LC
 Paradise Vly: KHOT 105.9 PC> 36 kW, 574 ft, DA, class C2
 Whiteriver: KNNB 88.1 NC to 1250w, 640 feet, XC: 33-45-37 / 109-58-27
 Winslow: K208DF 89.5 NS-99w: KAWZ-ID

HOT NEW 98.5
KRAKEM

FM NEWS PAGE 2

COLORADO:

Avon: KZYR 103.1 PC> 15 kW (h), 440'
 Burlington: KRGD 99.3 NO-RE
 Crested Butte: KBUT 90.3 inc. to -633 ft., XC: 38-54-11 / 106-58-23
 Ft. Collins: KPAW 107.9 inc. to 640 ft.
 Manitou Sps: KCME 88.7 PG< 12 kW, 2191', C1
 Montrose: KPRH 88.3 NW, info & classical // KCFR 90.1 Denver
 Ouray: KURA 105.7 OSA to 60 kW, class C, 1752 ft, XG: 38-23-16 / 107-40-28

FLORIDA:

Apopka: WTLN 95.3 FC to talk // WDBO
 Cedar Creek: WKSG 89.5 NO-RE (5th)
 Edgewater: WKRO 93.1 XC: 28-53-40 / 80-53-08
 Englewood: WLTF105.9 NO-RE (2nd)
 Favorita: *NS 91.1 AF
 Jacksonville: WNCM 88.1 PG> 8 kW, 495 ft, DA, C3, XG: 30-16-34 / 81-33-53
 Naples: WSLG 103.1 OSA to 104.7 - C2, 20 kW
 Naples: WPRW 93.5 PG> 6 kW, 328 ft, XG: 26-19-00 / 81-47-13
 Port Charlotte: WOST 100.1 CC (ex WXRM) *Star
 Port St. Lucie: WHLG 101.3 LC
 San Carlos Park: WDRR 98.5 PC> 20.5 kW, DA, C3
 Stuart: WZZR 92.7 XG: 27-16-30 / 80-17-12
 Yankeetown: WBKX 96.3 PC 6 kW, 285 ft.

GEORGIA:

Atlanta: WSB 98.5 inc. to 1027 ft.
 Augusta: WZNY 105.7 inc. to 1217 ft.
 Bainbridge: WMGR 97.3 FC to CHR "Hit Radio"
 Brunswick: WAYR 90.7 PC> 2.3 kW, 312 ft, XC: 31-11-39 / 81-29-30
 Buford: W201CC 88.1 NS-17w: KAWZ-ID
 Evans: WAEG 92.3 FC to R&B oldies
 Greensboro: WDDK 103.9 PC> 5.3 kW
 Talking Rock: WNSY 100.1 FC to oldies, CC (ex WCHK) "Sunny 100"
 Valdosta: WWRQ 107.9 QC from 107.7, PC> 14 kW, 315 ft, XC: 30-50-11 / 83-17-56
 Washington: WXKT 100.1 FC to country

HAWAII:

Hilo: KANO 91.1 NC to 3 kW, -413', GE
 Lihue-Kauai: KAWV 91.1 NO-GX
 Princeville: KAWT 98.9 NO-RE

IDAHO:

Emmett: KJHY 101.9 FC adds Jones regional Mexican (&) (Boise)
 Lewiston: KVTV 105.1 LC

ILLINOIS:

Champaign: WPCD 88.7 PG> 10.5 kW, 338 ft, XG: 40-13-27 / 88-17-56
 Chicago: WUBT 103.5 CC (ex WRCX) "The Beat"
 Colchester: WMQZ 104.1 CC (NS)

WCYN

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FEBRUARY 1999

Illinois:

Crest Hill: WCCQ 98.3 CX CP for 3.6 kW, 427 ft., XG: 41-26-09 / 88-11-04 (469 ft)
 Des Plaines: WYLL 106.7 XG: 42-08-14 / 87-58-57 (423 feet)
 Golconda: WDXR 94.3 FC to classic hits
 Joliet: WJTW 93.5 inc. to 276 ft.
 Oregon: WOXM 106.1 NO-GE (5th)
 Pickneyville: WCCZ 104.3 NO-GE (2nd)
 Rockton: WRWC 103.1 FC to WW1 soft AC (&)

INDIANA:

Edinburgh: WYGB 102.9 NO-RE (3rd)
 Goshen: WZOW 97.7 FC to classic rock
 Greenwood: WBKS 106.7 FC to R&B oldies (Indy)
 Kentland: WJOK 101.7 NO-RE
 Veedersburg: WKLO 92.9 NO-GE (4th)

IOWA:

Denison: KDSN 107.1 PC> 6 kW, 298 ft.
 Emmetsburg: KEMB 100.1 PC> 3.9 kW, 410 ft.
 LeMars: KKMA 99.5 FC to ABC-oldies (&)
 Marshalltown: *NS 91.5 AF
 Mitchellville: *NS 88.9 AF
 Ottumwa: KTWA 92.7 OSA to C2, 50 kW, 318 ft, XG: 41-01-29 / 92-28-09
 Sageville: KIYX 106.1 NO-GE
 St. Ansgar: KHAM 95.5 NO-RE
 Waverly: *NS 89.9 AF

KANSAS:

Arkansas City: KLPQ 102.5 NO-GX (2nd)
 Colby: KWGB 97.9 LC
 Enterprise: *NS 90.5 AF
 Girard: KSEK 99.1 FC to rock "Real Rock"
 Herington: KDMM 105.7 FC to Radio One country (&)
 Independence: *NS 90.9 AF
 Medicine Lodge: KSNS 91.5 NO-GE

KENTUCKY:

Benton: WTRT 88.1 LC
 Campton: WCBJ 103.7 NW, classic rock
 Clinton: WCBF 102.1 FC to classic hits // WDXR
 Cynthiana: WCYN 102.3 FC to classic country
 Georgetown: WXZZ 103.3 PC> 6 kW, 328 ft.
 Irvine: WCYO 100.7 adds Young & Elder
 Keavy: WVCT 91.5 inc. to 380 feet, XC: 36-59-11 / 84-08-01
 Manchester: WTBK 105.7 OSA to C3, 5 kW, 466 ft, XG: 37-08-59 / 83-45-08
 Mt. Sterling: WMST 105.5 reported SI
 Tyner: *NS 89.3 3 kW, 328 ft.

LOUISIANA:

Alexandria: KOUZ 89.9 NW, cont. Christian (&)
 Baker: WTGE 107.3 FC to R&B oldies
 Ball: KHFX 105.5 LC
 Bastrop: KTRY 94.3 CX CP for 93.9 - C2
 Hammond: WHMD 107.1 XG: 30-26-00 / 90-20-59
 Jena: KJNA 99.3 PC> 6 kW, 298 ft.
 Opeolus: KVOL 105.9 drops Imus mornings

MAINE:

Isleboro: WAYD 105.5 NW, adult standards
 Presque Isle: WOZI 101.7 QG to 101.9 - C2, PG> 7.9 kW, 1207 ft, DA, XG: 46-32-51 / 67-48-35
 Yarmouth: WYAR 88.3 NW, standards

MASSACHUSETTS:

Plymouth: WPLM 99.1 FC to standards & soft AC Mix (targeting age 45+) (Boston) "Easy 99.1"
Waltham: WCRB 102.5 PC < 8.1 kW, 1151 ft, XC: 42-18-27 / 71-13-27



MICHIGAN:

Atlanta: WAIR 92.5 FC to country // WBYP
Crystal Falls: WOBE 100.7 NO-RX (2nd)
Detroit: WDTJ 105.9 adds Russ Parr (simulcast with WKYS 93.9 Washington, D.C.)
Detroit: WKRK 97.1 adds Steve Dahl (from WCKG Chicago, afternoons), adds Mancow at night
Gagetown: *NS 88.5 AF
Gaylord: *NS 88.1 AF
Howell: WHMI 93.5 PC > 5.2 kW
Marlette: WBGV 92.5 NO-GE (10th)
Sault Ste Marie: *NS 102.3 AF
Tuscola: WWTN 101.5 adds Bob & Tom

MINNESOTA:

International Falls: *NS 91.9 AF
Park Rapids: KDKK 97.5 FC to Jones standards (&)
Park Rapids: KXXX 92.5 LC
Spring Valley: KVGO 104.3 PC > 10 kW, 512 ft, C3, XC: 43-38-23 / 92-38-30
Staples: KSKK 94.7 CX CP for 449 ft., PG > 50 kW, 469 ft, XG: 46-33-08 / 94-39-03

MISSISSIPPI:

Forest: *NS 91.7 AF
McComb: WAQL 90.5 NW, AFA cont. Christian (&)
Natchez: WASM 91.1 NO-RE (2nd)
Port Gibson: WVYE 100.5 NO-RE (4th)

MISSOURI:

Ashland: KOQL 106.1 PV > 69 kW, 958 ft, C1, XC: 38-45-01 / 92-33-31
Campbell: KFEB 107.5 NW, CD Country (&)
Ellington: KAUL 103.9 QG to 106.7, dec. to 298 feet, XG: 37-13-58 / 90-51-08
Kansas City: KOZN 102.1 FC to a/c
Lexington: KNRX 107.3 FC to R&B oldies "K107"
Moberly: KCSX 97.3 LC
Pleasant Hope: KTOZ 95.5 FC to modern AC "Alice" (Springfield)

Sunrise Beach: KCRL 90.3 LC
Union: KLPW 101.7 PC > 3.3 kW, 351'
Van Buren: KBIY 91.3 inc. to 492 ft, DA, XG: 37-06-25 / 90-59-30

MONTANA:

Billings: KBEX 105.1 NO-GX (2nd)
Butte: KAPC 91.3 decrease to 1873 ft, XG: 46-00-27 / 112-26-30
Cut Bank: KARW 102.7 CC (NS)
Hamilton: KUFN 91.9 LC
Kalispell: KUKL 88.9 LC
14 spell: KDBR 106.3 PC > 60 kW, 2365', DA

NEBRASKA:

Albion: KUSO 92.7 NO-RE
Lincoln: KLCV 88.5 to 309 feet, XG: 40-55-49 / 96-32-42

NEVADA:

Sun Valley: KXXL 93.7 NW, country "Cat Country"

NEW JERSEY:

Egg Harbor Twp: WXGN 90.5 NO-RX (3rd)
Lincroft: WBJB 90.5 PC < 900w, 371 ft, DA, class A
Manahawkin: WCHR 105.7 NO-RE (3rd)
Upper Montclair: WMSC 101.5 CX CP for 90.3
Wildwood Crest: WDOX 93.1 PG > 4.2 kW, 216'

NEW MEXICO:

Eagle Nest: K236AK 95.1 NS-10w: KRTN 93.7
Hurley: *** 105.5 PA: class C1 (replaces PA for 105.7 -C3 at Lordsburg, NM)
Las Cruces: KXDA 103.1 PC < 1 kW, 551 feet, XC: 21-24-18 / 106-45-41
Roswell: KSFX 100.5 adds ABC clas. rock (&)

NEW YORK:

Briarcliff Manor: WYNY 107.1 CC (ex WWXY), "New York"
Brookport: WASB 105.5 NW, religion // AM
Buffalo: WNET 94.5 XC: 42-38-13 / 78-46-05
Cape Vincent: WMHI 94.7 PC < 5.8 kW, 331 feet, XC: 44-04-42 / 76-15-26
Fenner: WXXE 90.5 NW, variety
Jeffersonville: WWHW 102.1 NO-RE
Lockport: W214BB 90.1 NS-27w: WCOU 88.3
Mechanicsburg: WXLE 104.5 FC to rhythmic oldies
Medina: W207BD 89.3 NS-38w: WCOU 88.3
Old Forge: WBGK 99.7 NO-RE (2nd)
Quogue: W206AU 89.1 NS-250w: WGRS-C
Southampton: WRLI 91.3 NO-RE (7th)
Syracuse: WRVD 90.3 NO-GX (3rd)
Voorheesville: WPTR 96.3 FC to urban "Jams 96.3"
Watertown: WFRY 97.5 PG < 97 kW, 476 ft.
Willsboro: WXPS 96.7 FC to country "Kix"
Woodstock: WDST 100.1 PG > 3 kW, 315 ft, XG: 41-59-24 / 74-01-07



NORTH CAROLINA:

Hatteras: WYND 97.1 PC > 48 kW, 558', C1
Jefferson: WASQ 106.1 NO-GE (5th)
Moyock: WSVV 92.1 FC to rhythmic oldies // WSVY 107.7 (Tidewater)

NORTH DAKOTA:

Beifield: *** 93.9 PA: add class C1
Burlington: *** 103.1 PA: add class C1
Ft. Totten: KABU 90.7 NO-RE (2nd)
Hettinger: KBKU 93.5 CC (NS)
Medina: *** 92.3 PA: add class C

OHIO:

Cincinnati: WOFX 92.5 dec. to 866 ft, ND
Findlay: W209BE 89.7 NS-20w: KLVC
McArthur: WJLI 98.7 CC (ex WCLX)
Pleasant City: WBIK 92.1 CC (NS)
Sandusky: *NS 88.5 AF (Kent State U.)

Ohio:

Shelby: WAUI 88.3 NW, AFA cont. Christian (&)
Wapakoneta: WZOQ 92.1 adds Bob & Sheri

OKLAHOMA:

Bartlesville: KYFM 100.1 FC to a/c
Durant: KAYC 91.1 NO-RE
Oklahoma City: KQSR 94.7 dec. to 1220 feet, XG: 35-35-52 / 97-29-22
Oklahoma City: KXXX 96.1 dec. to 1220 feet, XG: 35-35-52 / 97-29-22
Woodward: KWDQ 102.3 PC > 4.7 kW

OREGON:

Ashland: KCMX 101.9 CX CP for 4310 ft., PG > 42 kW, 1437 ft, class C, XG: 42-17-54 / 122-44-59
Cannon Beach: KCBZ 96.5 PC < 950w, 302 ft, XG: 45-57-08 / 123-56-14
Gleneden Beach: *NS 88.5 AF (KPBS)
Gleneden Beach: *NS 89.3 AF (Oregon Pub.)
Reedsport: KRZB 99.5 NC to 11 kW, 400 ft, RX
Sutherlin: KAVJ 101.1 NW, soft AC (&) // KEUG
Tillamook: *NS 91.1 AF
Tillamook: KJUN 94.1 LC



PENNSYLVANIA:

Bloomsburg: WHLM 106.5 PG < 10.5 kW, 1027 ft, XG: 40-56-18 / 76-25-38
Honesdale: WDNH 95.3 PG > 4.3 kW, 200 ft.
Honesdale: WGGY-1 101.3 NS-500w
Jenkintown: WIBF 103.9 adds Russ Parr
Pittsburgh: WDSY 107.9 PC < 17.5 kW, 827 ft.

RHODE ISLAND:

Providence: WBRU 95.5 NC to 492 ft, DA, XC, RE (7th)
Wakefield: WEXE 99.7 FC to classic hits // WHKK

SOUTH CAROLINA:

Greenville: W214BC 90.7 NS-10w: KAWZ-ID

SOUTH DAKOTA:

Wessington Springs: KGGK 98.3 LC

TENNESSEE:

Belle Meade: WNPL 106.7 FC to rhythmic oldies, "Hits 106-7"
Elizabethton: WUMC 90.5 NO-RE
Gallatin: WGFY 104.5 FC to classic hits (pop - R&B)
Henderson: WFHC 91.5 PG > 10.5 kW, 308 ft, class C3, XG: 35-27-40 / 88-40-51
Loudon: WESK 105.3 FC to oldies (&)
Norris: WBEH 106.7 PG 1350w, 695 ft, DA, XG: 36-07-12 / 83-55-30
Oak Ridge: WOKI 100.3 adds John Boy & Billy
Union City: WQAK 105.7 CC (ex WWUC) "Quake"
Union City: WYVY 104.9 CC (ex WKWT) "Young Country"

TEXAS:

Alice: KOPY 92.1 FC to tejano "Pure Tejano"
Benavides: KXTM 107.7 NO-RX (5th)
Borger: KQTY 106.7 NW, Real Country (&)
Brownfield: KPBB 88.5 CC (NS)
Brownfield: KLZK 104.3 inc. to 476 ft.
Callisburg: KPFC 91.9 inc. to 66 ft, DA, XC: 33-40-11 / 97-00-50
Clarendon: KEFH 99.3 NC to 36 kW, RX (2nd)
College Stn: KTSR 92.1 NC to 95.1 - C2, 50 kW, 492 ft, RE (9th)
Comanche: KOXZ 94.3 NW, Real Country (&), PG > 32 kW, 620 ft, DA
Eagle Pass: KINL 92.7 FC to ABC oldies (&)
Farmersville: KXEZ 92.1 FC to JRN standards (&)
Ft. Worth: KEGE 97.1 inc. to 1666 ft., XG: 32-35-19 / 96-58-05
Ft. Worth: KLTJ 94.1 dec. to 643 feet, XG: 32-32-44 / 96-57-56
Freeport: KJOJ 103.3 FC to rhythmic oldies // KHYS
Galveston: K208DG 89.5 NS-250w: KPFT 90.1
Gatesville: KBDE 89.9 PG > 11.5 kW (v), 489 ft, DA, C2, XG: 31-16-06 / 97-21-34, CL: Temple, Texas
Gilmer: KCGE 95.3 CC (ex KFRO)
Gonzales: KCTI 106.3 PG > 15 kW, 423 ft, class C3, XG: 29-41-17 / 97-40-39
Graham: KWKQ 107.1 PG > 25 kW, 92 ft, C3
Harker Hts: KYUL 105.5 PG < 33 kW, 600 ft, ND, XG: 30-59-09 / 97-37-51
Lamesa: *NS 91.3 250w, 157 ft.
Lufkin: KSWP 90.9 drops religion (which goes to KAVX), now only cont. Christian
Lufkin: KAVX 91.9 NW, religion
Mertzon: *NS 91.9 AF
Olney: KRZB 97.5 NO-RX (2nd)
Palestine: KLIS 96.7 NC to 50 kW, 384 ft, C2
Pittsburg: KXAL 103.1 FC to urban "The Beat, K103"

Plainview: KVOP 97.3 FC to country // KKYN-FM (new format expected soon)
Pt. Arthur: KHYS 98.5 FC to rhythmic oldies "Jam"
Post: KOFR 107.3 FC to cont. Christian PG < 22 kW, 748 ft, XG: 33-13-23 / 101-26-26
San Diego: KUKA 105.9 PG > 10 kW, 413 ft, ND, XG: 27-38-59 / 98-07-44
Seadrift: KMAT 105.1 NO-RE (4th)
Silsbee: KWDX 101.7 adds Radio 1 Country (&)
Springtown: KMQX 89.1 FC to religion // KVTT
Tahoka: KAWD 95.3 LC
Uvalde: KYUF 104.9 FC to ABC country (&)
Waco: KWTX 97.5 dec. to 1479 ft.
Winona: KBKV 102.7 CC (NS)
Yuma: KYRM 91.9 NO-RE (2nd)

UTAH:

Ogden: KYFO 95.5 inc. to 718 ft, class C, XC: 41-14-59 / 112-14-11
Randolph: *NS 102.3 480w, 1128 ft.

VERMONT:

Danville: WOKD 91.1 NO-GE
Woodstock: *NS 91.7 100w, 2276 ft, DA

VIRGINIA:

Emporia: WJYA 89.3 CC (ex WSPV)
 Port Royal: WFTR 95.3 FC to oldies (&)
 Vinton: WZZI 101.5 PG< 510w, 784 ft.
 Virginia Bch: WODC 88.5 PC> 1.2 kW, 121', DA
 White Stone: WNDJ 104.9 PG< 2,550 watts, 479 ft,
 XG: 37-37-26 / 76-33-30
 Windsor: WSVY 107.7 FC to rhythmic oldies
 Woodstock: WAZR 93.7 PC< 25 kW, 43 ft, DA, XC:
 38-50-23 / 78-33-33

WASHINGTON:

Omak: KQWS 90.1 NO-RE (2nd)
 Quincy: KGER 95.9 NO-RE (3rd), LC
 Shelton: KRXY 94.5 LC
 Shelton: K205DH 88.9 NS-3w: KAWZ-ID
 South Bend: KFMV 105.7 NO-RE (2nd)
 Walla Walla: KUJ 99.1 PG> 9.4 kW, 1118', C2
 Yakima: KHHK 99.7 PG< 4.1 kW, 804 ft,
 XG: 46-31-20 / 120-20-08

WISCONSIN:

Highland: WHHI 91.3 XG: 43-02-55 / 90-22-09
 Milwaukee: WVCY107.7 PG> 43 kW, 528 ft, DA,
 XG: 42-57-46 / 88-04-23
 Nekoosa: WVEC 93.9 NC to 44-13-19 / 89-51-13,
 RE (5th)
 Sturtevant: WEXT 104.7 PG> 6 kW, 321', DA



WYOMING:

Casper: KUWC 91.3 NO-RE
 Jackson: *NS 88.7 AF



CANADA

BRITISH COLUMBIA:

Big White Mtn: *NS 103.9 30w station wanted //
 CILK-FM
 Big White Ski Village: CKBL1 98.1 wants to switch
 to carrying CHSU-FM
 Granisle: *NS 101.9 to be // CJFW-FM
 Granisle: *NS 100.5 to be // CISN-FM

MANITOBA:

St. Theresa Pt.: *NS 93.5 36 w station wanted //
 CINC-FM

NEW BRUNSWICK:

Fredericton: CJPN 90.5 PG> 1,560 watts, XG (only
 a few hundred metres)

ONTARIO:

Barrie: *NS 100.3 application for freq. here, to
 be Christian music, 1.8 kW
 Paris: CBL 90.7 NS-4 kW

QUÉBEC:

Sept-Iles: KCCN 94.1 QC from 560, 4.8 kW
 Ste-Hyacinthe: CFEI 106.5 PG> 3 kW wanted
 Thetford Mines: CKLD 105.5 QC from 1330, 3 kW
 Trois-Pistoles: CIBM-2 104.9 inc. to 183 w.
 Trois-Pistoles: CJFP-4 93.9 dec. to 42 w.

PRINCE EDWARD ISLAND:

Charlottetown: CHLQ 93.1 FC to CHR



PIRATE WATCH:

- **DETROIT, MICHIGAN:** The FCC denied the appeal of Edwin Raices, who was busted for a 106.3 pirate a year ago. Raices was fined \$5,000. He claimed he should not be fined, because his offense was "unwillful". This is because he never caused interference to a licensed station, and he dismantled the station when asked to by the FCC. However, the FCC did not accept these arguments and continues to expect the fine to be paid.
- **MIAMI, FLORIDA:** The FCC has shut down 19 more FM pirate stations in South Florida. This is in addition to the 15 stations shut down earlier last year. Reports indicated that some stations were abetting drug-related crime.
- **LEANDER, TEXAS:** Keith Perry was recently caught operating on both 88.5 & 95.9 here, and was assessed a Cease and Desist Order, an \$11,000 fine. Perry has refused to desist, or even to file the usual "Notice of Appearance". Instead Perry, has counterfiled, issuing a "Certified Demand for FCC Jurisdiction", which challenges the FCC's authority to regulate the airwaves

CKMN

fm **96.5**
 LA RADIO
 À VOTRE RYTHME !

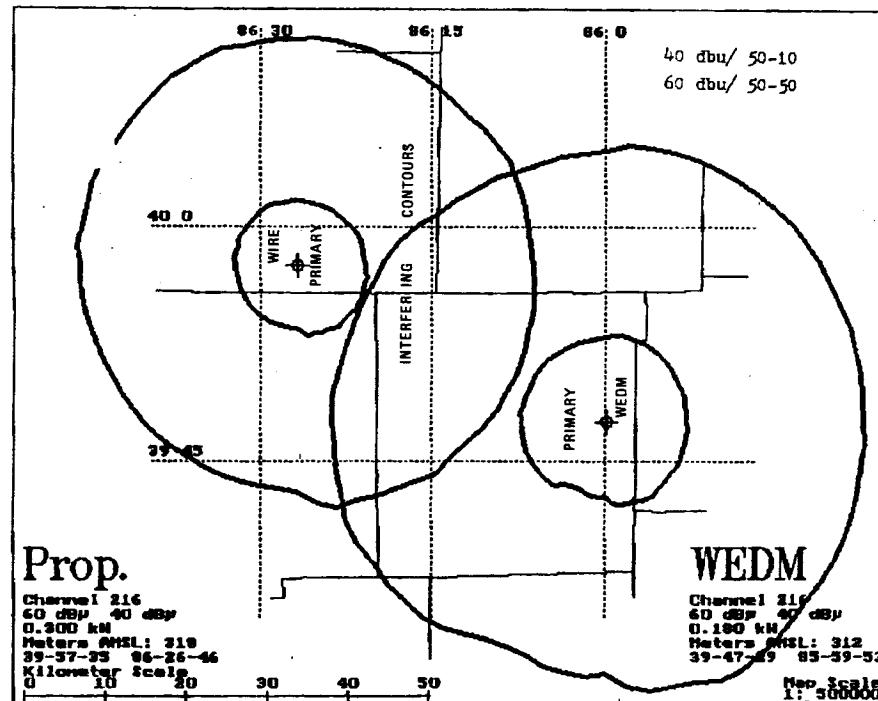
The FCC is cracking down in areas other than just un-licensed radio operation. After two incidents late in 1998 involving helicopters and un-lit radio towers (in Muleshoe, Texas, and Arcadia, Florida), the FCC is strongly cautioning stations about complying with this safety regulation.

Bill Draeb writes about local WAUN 92.7 (Kewanee, Wisconsin), which has been silent for quite some time. The shareholders cannot agree on a new music format for the station. A recent local phonebook listed the format as "polkas and heavy metal" (Bill, I think I remember hearing a legal ID mentioning a simulcast with 94.3 Elgin, Illinois, during a recent visit to Chicago)

Mike Lazaro sends an article from the *Albany Times-Union* dated December 23, 1998. An item by Mark McGuire, the paper's media columnist, reports on the recent change of WXLE 104.5 to the newly popular "rhythmic oldies" format.

(Check out how many stations flipped to that format in this month's column!) In recent years, including most of 1998, the station featured an adult alternative format. A few months ago, WXLE changed to a "Magic" slogan and a more adult contemporary or "modern AC" oriented format. Ronald E. "Buzz" Brindle, the stations PD, now admits, "Magic" was never meant to succeed, but was rather a transitional format, while the station prepared the "Jammin Oldies" format. The station did not want to announce its intentions at first, and allow a competitor to steal the popular new format.

Alan Dunn writes via e-mail to note a minor error in the December column. The entry for "WRQR Wilmington, Mass." Should have been in North Carolina, not Massachusetts. Alan notes that the Boston area has a station with a very similar call on 105.7: WROR. That may be what messed me up. Thanks for the update, Alan!

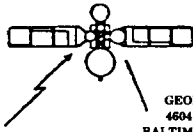


--courtesy Bruce Elving/FMedia!

MS 1 C

WIRE *91.1 LEBANON IN COVERAGE IN RELATION TO WEDM
 *91.1 INDIANAPOLIS

SATELLITE NEWS



GEORGE W JENSEN
4604 ANNTANA AVE
BALTIMORE MD 21206-4220

Some changes, Some new channels, some channels go, and strange situations with oceans of new channels.

Satcom 4 -
5 - digital
100 Encore Plex East
101 - Encore Plex Mountain
102 - Encore Plex West
103 - Starz Mountain These have migrated here from
104 - Starz West Galaxy 7
Satcom C3
delete - Atlantic satellite color bars and infomercials
add - 781 - infomercials
Galaxy 1 -
add - 6 - The Nashville Network - West VC2
Anik E2
5 - delete VCC - ADD CBC - West
delete from where ever it was - SET - Southern Entertainment
Television was in VC2
13 - delete the CBC W feed from here - transponder failure
GE 1
1 - add - Fox Sports Ohio VC2 from xpdr 4
15 - The Set - delete this from here and anywhere else
23 - delete - Outlaw Music Channel
Telstar 5
11 - True Blue - delete XXXTasy VC2
12 - delete Exxxotica VC2
Galaxy 7
delete all of the Encore Plex - now on Satcom C4
delete 603 - Wingspan
delete - 800 and 801 - The Box Pulse and Edge
on the Ku side - add 620 - Toon Disney
Telstar 402 -
7 - add - Exxxotica from T5 VC2
GE 2
delete - Kuwait Television Service from XPDR 6
Spacenet 3
ADD the following
7 - VCC - Video Catalogue Channel from Anik E2
i - C3D - 3D Stereoscopic television TESTING
And now to the oceans of channels thanks to Steven Sprachman.
This involves using several of the 4DTV generic satellite
designators and sort of overlaying them on a satellite
like G7 or others - There are several Ku and C Band generics
to do this with. Using KF over top of the Ku side of Galaxy
7 will net a flood of other channels that the X7 designator
for Galaxy 7 Ku does NOT download digitally - e.g. -
226 - The weather Channel - Weather Scan - not currently open
480 - A&E Biography and 482 - A&E History
There is some redundancy with this set-up however.
There are about 150 channels carried on this bird in Compressed
Digital Video
On GE 1 C band using the CE designator - the lost PBS feeds
can be found on 140, 41, 42 46, 157, 58 and 59.
On Satcom 3 using the generic CG designator one will find
a new Nickelodeon Suite with
386 - Nick Noggin
387 - Nick Games and Sports
388 - Nick Too East
389 - Nick Too west.
Much more on this as time goes by. that's all for now -
see you in 30.

18 George

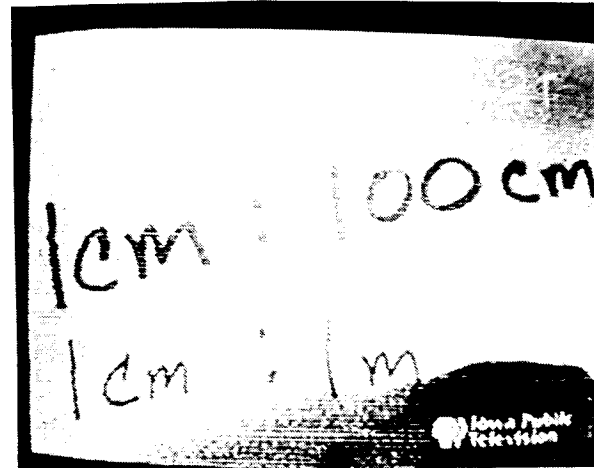
PHOTO-NEWS

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

February 1999

As promised, here's some fantastic tropo photos from Fernando Garcia, Cd. Guadalupe, Nuevo Leon, Mexico:

Equipment: Sony KV-27EXR15 TV, screened CM 7' dish @85' w/RG-11 and UA-900 preamp. Sony KV-13TR27 TV, CM 1110 @30' w/RG-6. Archer V-110. CM 8-bay UHF array at 60'.



KTIN-21 Ft. Dodge, IA
1231 mi Tr seen 5/14/98
@ 0330 CDT



KHIN-36 Red Oak, IA
1121 mi Tr seen 5/14/98
@0300 CDT

pre-recorded program.
The views expressed in
this program are not
necessarily those of
the Cocola Broadcasting
Company, Pannas

Paid
Program

15
KXVO

KXVO-15 Omaha, NE
1094 mi Tr seen 5/14/98
@0200 CDT

WBCC-68 Cocoa, FL
1200 mi Tr seen 5/20/98

WBCC - TV
CHANNEL 68
COCOA, FL
ST. WME-019
TSLI KPL-338

BREVARD COMMUNITY COLLEGE

saturdays
Pensacola:
Wings of Gold
6:00pm

FOX
KPTM **42** *Were Your Station!*
Omaha / Lincoln / Council Bluffs

KPTM-42 Omaha, NE
1090 mi Tr seen 5/14/98
@0200 CDT

WGFL-53 Gainesville, FL
1112 mi Tr seen 5/8/98

WGFL-TV
CHANNEL 53
HIGH SPRINGS
GAINESVILLE, FL

W 21 AX

TELEVIDA
Miami, Florida
Somos la verdadera
Alternativa!!!

W21AX-21 Miami, FL
1237 mi Tr seen 5/8/98
@0600 CDT

WFLX-29 W. Palm Beach, FL
1238 mi Tr seen 5/8/98

FOX
ST. LOUIS
DETROIT
MIAMI, FL
SUNDAY
www.fox9312.com



TALL!

(When I received this material several years ago, I failed to make note of the contributor. It is part of chapter one ("Towers and Other Landmarks") in a book titled "About Television" and was written in 1972 by Martin Mayer of New York. No other publishing information is available.)

Tallest in the World...

On a farm near Blanchard, Traill County, North Dakota, stands a tri-cornered latticework of steel beams painted red and white, rising straight up for two-fifths of a mile---the tallest man-made structure in the world, the 2063 foot transmission tower of KTHI-tv, Channel 11, Grand Forks-Fargo. The station used to be identified by other call letters, but changed its name in 1963, while the tower was under construction, to permit the use of a new promotion symbol, a long-legged girl labeled "Katy High."

Management likes to say that if you put the Eiffel Tower on top of the Great Pyramid at Giza, and the Washington Monument on top of them, the tip of the monument would still be below the KTHI antenna. If a twenty-second commercial started at the same moment a baseball was dropped from the top of the KTHI tower, it would have ended nearly four seconds before the ball hit the ground. At some seasons, the ball might hit a Brown Swiss cow, because such cows--- property of a Farmer Brown, H. Kenneth Brown, who owns the land---graze around the two-story cinder-block building at the foot of the tower.

At the top, the visual horizon is sixty miles away, and full power input of 304,000 watts will generate usable video signals on high quality rooftop home antennae 105 miles off. "It's so flat here," said engineer David Chumley, "we have no shadow situation at all---you get good coverage over the whole area." This area is larger than the states of Massachusetts, New Jersey, Delaware, Connecticut and Rhode Island put together. "But the tower doesn't look like much, you know," said William P. Dix, formerly the station's general manager, a veteran of broadcasting wars in New York, "because there's nothing you can compare it to." That's almost true, but not quite. Only a few thousand yards away stands a very slightly smaller 2060 foot stick for a rival station (KXJB-tv) that also aims to reach Fargo and Moorhead, Grand Forks and Valley City, Thief River Falls and Devils Lake, and all the farms and crossroad towns around them.

Even in 1963 the cost of raising such a tower was more than three-quarters of a million dollars. Much more than a steel frame is involved. The cable carrying the power to the antenna must be protected against moisture by a blanket of nitrogen under pressure, and against freezing by a circulating antifreeze solution pumped all the way to the top. Forty percent of the power will be lost in the climb, not because electricity cares about up or down, but simply because the cable is so long. Structurally, the tower is sustained by guy wires as thick as a man's arm, twenty seven of them, angling down from various heights to coffins of reinforced concrete sunk twenty-five feet under the surface of Farmer Brown's quarter section. Tower and guy wires add up to almost six hundred tons of steel.

Though carefully lit on fourteen levels, beyond FAA specifications, the tower is a hazard to tourist aviation, light planes with pilots who can't resist coming in for a closer look. They can see the tower all right---but not the guy wires.

At Farmer Brown's, a dirt road with deep mud holes leads to the building at the base of the tower. The ground floor had a garage, with a small electrical shop and a huge Allis Chalmers emergency generator, plus tanks for the fuel to feed it, for the antifreeze, for the nitrogen. On the second floor was an ordinary windowless control room, temperature-controlled through noisy air-conditioning ducts,

featuring the usual monitor screens, control panels, banks of gun-metal gray equipment studded with dials and meters. Beside the stairs was a little room with a window, offering a cot, a stove and a refrigerator. The engineer on duty was Larry Johnson, a matter-of-fact young veteran who had previously run an Army closed-circuit system in El Paso and now lived 150 miles from Blanchard. His weekly tour was from 12:30 Wednesday afternoon to 9 o'clock Friday night---56 and a half hours a week, a schedule that permitted the facility to be staffed constantly for the price of three men. Nevertheless, a tower like KTHI isn't cheap to operate. The electricity alone must run \$30,000 a year, and even in low-wage North Dakota the three engineers cost at least as much again. And there are special problems, too. "We have a leak in the nitrogen hose, up near the top," Johnson said, looking at the ceiling. "A GE man came out here to work on it, but he got hysterics when he was only four hundred feet up."

Most of the time, what comes out of this tower is ABC network programs; however KTHI produces local news shows, *Romper Room* for kiddies and a *Top Ten Dance Party* for bigger kiddies at its studios in both Fargo and Grand Forks. KTHI also carries several hours a day of movies and syndicated shows. On Sunday afternoon Dix used to go on camera himself, in a program called *Let Me Speak to the Manager*, answering questions in letters written by the audience. Dix, somewhat taken back by its success said, "It's our sixth-highest daytime rating." One result of this program was a late-night movie on weekends, making KTHI the only station in the area to be on after midnight. "A lady wrote in asking why we signed off so early," Dix recalled, "and I said on the air, 'If you want a late show, you can have it---write in.' A couple of days later we got a petition from the Air Force base, with 150 signatures, and the man who sent it wrote, 'I got these in one hour---if you need more, let me know.' So I went to our advertisers, and said, 'Do you want to own an audience?' We charge \$175 for half the movie, which gives the advertiser four spots." If it's a local advertiser, KTHI will make the commercials for him, at a gross cost normally under \$50 per reusable minute.

An investment like the tower, however, is not made for the sake of local storekeepers---indeed, by extending the

station's range far beyond any one market area, the tower gives local advertisers an unusually high fraction of waste circulation. Fuqua Industries, the conglomerate that then owned KTHI, built the tallest structure in the world because in the early 1960s the advertising agencies worked on a rule of thumb that made 100,000 homes the minimum size for a major market that would be bought routinely in national advertising campaigns on television. And the only way you could get 100,000 homes in the reception area of a single transmitter in North Dakota was by hoisting it up more than two thousand feet. While one structure could serve both channels, two very tall towers stand in Traill County, involving a total investment of \$1.5 million, because broadcasters, the people, the Federal Communications Commission and the Department of Justice all believe that competition is part of the American way. That's why the world's two tallest structures are out in the back of beyond in North Dakota.

Editor's comments:

Since the book containing this material was published, the distinction of "world's tallest man made structure" has been relinquished to lofty new creations on other continents. The KTHI call letters are gone. So is the ABC network... the station has carried NBC for about 15 years. More recently the station's identity was changed to KVLV-tv ("Valley", in recognition of the location of the majority of its coverage area---the Red River valley). That change occurred when channel 11 became part of the Bismarck-based Meyer Broadcasting Company. Only months ago a new owner (Sunrise Broadcasting of St. Petersburg, FL) took possession of all 5 of the Meyer television stations. I suspect that relaxed FCC regulations and technological advances have eliminated the expense of staffing full-time engineers at the transmitter site. This past July it was a personal thrill to visit both of the big towers mentioned in this article. While only a few miles apart, the channel 4 structure has been toppled twice...first by an aircraft accident and more recently in a horrendous ice storm...but the channel 11 giant has been spared any tragedy. They are truly an awesome sight... particularly to those of us who pay attention to such structures. A DXer has a sort of built-in mental calculator that aids in determining tower height. When you see these 'big sticks' up-close and personal, you KNOW that you are viewing true GIANTS.

♥ 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, WV and Mexico

February 1999



John Tudenham - WOJRP
2824 Missouri
Joplin, MO 64804-2755
wojrpejuno.com
CST

A severe ice storm that hit southwest Missouri on New Years day resulted in many power failures and tree limbs down. My FM antenna was stuck east with a tree limb on it. Two area stations were off the air, one may be for a long time due to a fire at the transmitter site.

The KGND 107.5 Ketchum OK transmitter building was destroyed by fire around 2AM January 4th. KGND is located in the NE corner of OK in the Grand Lake area. KWXD 103.5 Asbury MO, with studios in Pittsburg KS, was off the air for reasons unknown. Asbury is located between Pittsburg KS and Joplin MO.

Word received from the manager of KSWM AM in Aurora MO is that their company will be testing their new FM station in Stockton MO on 107.7. Stockton is about 40 miles NW of Springfield.

No DX to report. I have not heard anything new on 107.5 or 103.5.



Eric Bueneman

NOUIH - 631 Coachway Lane - Hazelwood, MO
63042-1347 - (314) 839-9751 (prepaid only) -
NOUIHEric@aol.com, EricB631@juno.com -
http://members.aol.com/nouiheric/k-index.html
CST

Realistic STA-90, Radio Shack VU-210XR.
Miles/kilometers.

Here are some possible ID's for Luke Steele's unIDs in the December VUD:

June 1, 1998

92.5 - His unID with the slogan "Q-92 Light Favorites" may be WJQJ-FM Tomahawk, WI. The format matches this station, which simulcasts WJQJ (AM).

June 13, 1998

90.7 - The unID with a mention of Chesapeake may be WCWM Williamsburg, VA, operated by the students of The College of William and Mary. Chesapeake, VA is a suburb of Norfolk, some 40 miles to the east.

24

July 13, 1998

102.1 - The unID with a "Q-102" slogan and country music may be WQLC Watertown, FL. The format matches. If they were playing Faith Hill's "This Kiss" or Shania Twain's "You're Still The One" (both of which crossed over to mainstream Top 40), then it could also be WIOQ Philadelphia, PA.

I did add one new logging:

12/16 Tr

1930 WDCN 95.9 IL DuQuoin, local ads, wx, PSA, calls, AC, WOLG on open carrier 100/161

Best of DX in 1999 from Eric (NOUIH)!



Luke Steele
437902 E 278 Rd
Vinita, OK 74301
(918) 256-8786
CST

DX-390 with whip antenna.

9/26 Tr

0825 unID 104.3 ?? ??, "Today's Hits, Yesterday's Favorites, B-104"

0907 unID 102.9 ?? ??, k, "Q-102"

0911 KJYO 102.7 OK Oklahoma City, "KJ-103"

0958 unID 101.1 ?? ??, k (KWOX Woodward OK?-jz)

9/27 Tr

1054 unID 105.9 ?? ??, k, KQLL off (KIRC Seminole OK?-jz)

1055 unID 106.1 ?? ??, AC, Casey Kasem's Top 20

10/1 Tr

1723 KHCC 90.1 KS Hutchinson, "Radio Kansas"

1737 KKFI 90.1 MO Kansas City, blues show, fundraising

1741 KWWR 95.7 MO Mexico, k, "Country 96"

10/5 Tr

1653 KFKF 94.1 KS Kansas City, k

1657 KGOZ 101.7 MO Gallatin, k, "Z-101.7"

1713 KTTN 92.3 MO Trenton, calls, nx

1745 unID 101.7 ?? ??, mention of "Verdegris" on the wx

1915 KSDL 92.1 MO Sedalia, "FM 92"

1930 KAZR 103.3 IA Pella, "Lazer 103 Central Iowa wx"

10/7

1958 KUAR 89.1 AR Little Rock, ID

10/9 Tr

1154 KSTZ 102.5 IA Des Moines, "Star 102.5"

SOUTHERN FM DX

Steele continued

1736 KSPQ 93.9 MO West Plains, "The Q"

10/10 Tr (w/GE SuperRadio 3)

1912 KEOM 88.5 TX Mesquite, o, "88-5 KEOM"

10/15 Tr

1228 KRNB 105.7 TX Decatur, s, "105 dot 7"

10/27 Tr

1148 unID 102.5 ?? ??, "Sunny 102.5 tent at the KSU..." (KBLS North Fort Riley KS-jz)

11/2 Tr

1739 KABF 88.3 AR Little Rock, ID

11/7 Tr

2105 KCWD 96.1 AR Harrison, "Hits 96," KITO off

2107 KLRQ 96.1 MO Clinton, "Q-96"

11/8 Tr

0942 unID 95.9 ?? ??, "Classic Hits (sounded like KIVV"

11/14 Tr

0803 KHCD 89.5 KS Salina, "Radio Kansas"

0827 KNTU 88.1 TX Denton, c, ID

11/15 Tr

1232 KPLA 101.5 MO Columbia, ID

1802 WRR 101.1 TX Dallas, c

1906 KLAW 101.5 OK Lawton, k

1915 KICM 93.7 OK Ardmore

1917 KOKF 90.9 OK Edmond, quite clear

2057 KMKZ 95.7 OK Lahoma, quite clear despite adjacent stations

John M. Jefferson
4104 Spyglass Ct.
Antioch, CA
94509-6051
PST

McIntosh MR-80 (digital display w/analog tuning),
APS-14 antenna (the 196" baby bird perch) @ 30'
off the ground, Channel Master rotor

The November Ms was interesting, but it didn't compensate for the 2nd awful summer in a row. Some December skip did give the year an upbeat finish, though.

11/16 Ms

0319 KOEX 92.3 TX El Paso, "92.3 the Fox" 969

0528 KKER 92.3 AZ Phoenix, "Power 92-3" 635

11/17 Ms

0441 KCAD 99.1 ND Dickinson, "Cat Country" 1148

0700 KOEZ 92.3 KS Newton, ID, CNN nx 1331

0716 KOFX 92.3 TX El Paso, El Paso ad 969

1010 XHMC 104.9 BCS Mexicali, calls 512

FEBRUARY 1998

1040 unID 92.3 ?? ??, "Rock Queen & Rock Station, Z-94(!)"

12/21 Es

1900 KTEP# 88.5 TX El Paso, calls 970

1902 KRWG# 90.7 NM Las Cruces, annmt, c-phone verie 950

1904 KINT# 93.9 TX El Paso, SS, time check @ 1911 970

1905 KOFX# 92.3 TX El Paso, o, "The Fox" @ 1912 969

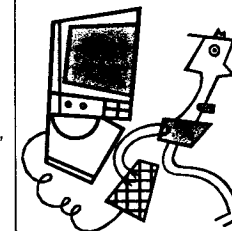
1944 XHGON% 92.9 SO Ciudad Obregon, "La Caliente," annmts in SS 1001

1951 XHUSS\$ 92.3 SO Hermosillo, "La Compadre," annmts in SS 877

2000 KKFR 92.3 AZ Phoenix, ID 635

2005 KPHF 88.3 AZ Phoenix, //KEDR 88.1 Family Radio 635

Notes: underlined are new to the Diablo Region, dashed underlines are new mode, # is new to West Sacramento (where I work & hopefully soon will live - way outside the Diablo Region) on Sentra FM, % is w/Sentra FM near Antioch Bridge, \$ is w/Sentra on freeway near Antioch. Nice to get the legal ID for KKFR on 12/21, but a legal ID for XHUSS would have been even better. By the time I got in the house, XHUSS was gone (and XHGON would have had to be quite strong to get thru KFGY Healdsburg & KF50 Visalia, which were combining to make a noisy mess on 92.9 that night).



From the Editor

Thanks for your support of Southern FM DX! It's great to see 4 reports in the middle of the winter.

John Jefferson's report reminds me that the only major metro area that I still don't have anything from in Texas is El Paso. With desert and mountains in the way, it's a tough catch. Makes one realize just how big Texas is. El Paso is actually closer to San Diego than it is to Houston....now that's a big state! 73

NORTHERN FM DX

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

FEBRUARY 1999

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



Eric Bueneman writes with assistance with Rich Gallison's June 22, 1998 E-skip unIDs which appeared in an earlier column. He feels that the "Cool" unID on 98.7 is WASK Battle Ground, IN. As far as Rich's NPR on 89.3, it could be WIPR-IL, KCUR-MO, or WVXR-IN, all stations that run that format, Eric confirms. Thanks for your assistance, Eric! If you have had DX lately, let's hear from you today!!

DAVE NIEMAN - HO STA GEH ROAD - ROCK CITY NEW YORK 14749

Equipment: Carver TX-11 tuner, IF filter modified, Pioneer SX 650 receiver. Channel Master model 4408 (Stereo Probe 9) at 59 feet AGL on a Alliance HD-73 rotor. Winegard FT-7600 variable FM trap for 95.7MHz. Belden RG-11/u coax feed.
New loggings are underlined.

OCTOBER 1998 DX

31 tropo
0200 CBLA1 90.5 ON Crystal Beach, call, mt\$, testing 66

NOVEMBER 1998 DX

15 tropo
0840 CFLZ 105.1 ON Niagara Falls, call, TIS \$, testing // CFLZ 91.9 81

28 Meteorscatter & tropo

0734 WCLZ 98.9 ME Brunswick, call, \$ 447
taking out WBBF Rochester
0639 WFGI 105.7 PA State College, "Froggy-98" 83
// WFGY 98.1, k\$

NOVEMBER 28, 1998 DX continued

1015 WRQV 96.3 VA Martinsville, ...the rock of Virginia... "96.3-ROV", rp\$ 348

30 tropo

1055 WBSS 97.3 NJ Millville, "New Jersey 101.5", r\$ 268

DECEMBER 1998 DX

6 tropo
1140 WISL 95.3 PA Shamokin, call, o\$ 132
1228 WQMU 92.5 PA Indiana, call, \$ ex. 103.1, Steelers football pregame show 101

1400 WQJU 107.1 PA Mifflintown, ID, g\$ 109

Nothing much going on the last few months. No big tropo openings but I still managed to log several new stations. THE BEST OF HOLIDAYS TO ALL. DAVE

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

Internet: ijebeiling@aol.com

FROM PROSIT, MN:

NOVEMBER 1998 DX
13 Tr
2359 99.3 KWNO MN Rushford 224
19 Tr
1115 91.5 W218AW MN Brainerd 87

FROM BLOOMINGTON, MN:

OCTOBER 1998 DX
15 MS
1001 92.9 KLGT WY Buffalo 659
28 Tr
1930 88.3 K202CH MN Glencoe

NOVEMBER 1998 DX

16 Tr
2355 99.3 KWNO MN Rushford 104

DECEMBER 1998 DX

2 Tr
2300 88.7 KMSE MN Rochester 69

The Nov. Leonids shower was been a bust so far. I haven't finished listening to my tape as yet, but so far have heard only a few bursts. Will notify if any off season Es makes it to MN. Email address is ijebeiling@aol.com
Regards,
John

WESTERN TV-DX

February 1999

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

This report is for December 1998. TV-FM tropo between Santa Barbara and San Diego/Tijuana (up to 200 mi/320 km) settled into a mostly winter condition of mostly no tropo except at the end of the month. Monitoring continues to be indoor TV and car radio FM.

Nov 28-30am: None (Nov 28 rain)
Nov 30 eve: Briefly up to poor (After that, rain)
Nov 30 night: None
Dec1-10am: None (Unsettled; weather fronts often, occ. rain & wind thru aprox Dec. 8)
Dec10eve-13: Very poor (Stable but cool temps)
Dec14-16: None (Cold front; some wind)
Dec 17: Poor to fair (Warm)
Dec18-25am: None (Clear and COLD!)
Dec25eve: Very poor
Dec 26: Poor (Gradual warming)
Dec 27-31: Fair

On Dec. 21, there was some Es noted 1830-2000 PST in Santa Barbara, though it was in before that and continued somewhat afterward. Maximum usable frequency (MUF) was through at least ch. 5 (82 MHz). No IDs. CCI under local KEYT-3. Chs. 2 and 4 were deep in signals when first noted, too many to separate. Ch. 5 had fewer signals, but receiver insensitivity prevented useful info. Just before 1900, noted ch. 4 PBS end of Lehrer Newshour and ad for Jessye Norman Christmas special, fading into and after 1900 on ch. 4 with ABC Monday Night Football. By 2000, when TV was turned off, MUF was down to ch. 2.

Best of DX to All. Dennis

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

December 1998		CST
01tr 0435 WUXP	30TN	408
	WNAB	58TN
	0600 KSBN	57AR Springdale
	0935 WCFT	33AL
	0940 KZDX	54AL
	1000 WNPX	28TN
	1035 WAAY	31AL
	1100 WHNT	19AL
	1115 WAFF	48AL
31ms 0500 KDLO	3SD	435
January 1999		
02ms 0410 KDTN	2TX	719

A nearby DXer alerted me to the merits of the Orion 13" (MOD TV1318) color TV receiver with remote. Walmart sells it for \$119.95 list or \$89.95 on sale. The set is very sensitive and will receive

meteor scatter. Many new sets will not receive meteor scatter unless the burst is long and strong. Many sets are slow to sync a meteor burst.

The picture is sharp on the Orion. Picture and color will lock in at near-zero signal levels. Within one half hour on two monrings, I identified Watertown, SD-3 (435 mi) and Denton, TX (719 mi) via meteor scatter. Many more bursts were seen. I also saw Minneapolis-4 (300 mi) during a blizzard briefly--propagation unknown. The set picks up all the scatter signals (to 400 mi.) as well as my 1990 Zenith: Cincinnati, Kansas City, Minneapolis, etc. Selectivity is slightly inferior compared to my primary set. Sensitivity is equal or better. A possible negative is that the sound mutes at very low signal levels. This can be an advantage when watching meteor scatter or weak UHF scatter signals. The sudden hiss is an early warning system of an incoming signal. If a weak signal is adjacent to a strong one, the tuner will lock onto the weak one fine. If no signal exists, it will sometimes lock on a very strong adjacent channel. The Orion is still better in this respect than most competing sets. It is an inexpensive TV which looks promising as a second TV or a meteor scatter DX set. The weak link in this hobby is finding an adequate TV, so I thought these comments might be of interest while the set is still available. Ownership of four days has not presented me sufficient time to form many opinions on the receiver.

Danny Oglethorpe, P.O. Box 6688, Shreveport, LA 71136-6688

November 1998		UTC
22tr 1455 WHOA	32AL Montgomery	436
26tr 1025 WIAT	42AL Birmingham	410
	1120 WJSU	40AL Anniston: ABC 33/40
468		
December 1998		
05Es 0035 unIDs	2,4 XEW, others	
09tr 1350 WJSP	28GA Columbus; GPTV	512
	1404 WHOA	32AL Montgomery
	WJSU	40AL Anniston
	WIAT	42AL Birmingham
	1408 WPGX	28FL Panama City
	1413 WJTC	44FL Pensacola
	10Es 2040 unID	2 Mexico to west w/big "2" logo
	11Es 0200 unIDs	2,5 Azteca-7, others
	0235 XHG	4JAL Guadalajara; news
	0247 XEFB	2NL Monterrey; "11" MTY"
	0318 KNAZ	2AZ Flagstaff
	19Es 0100 WPBT	2FL Miami
	0107 WFOR	4FL Miami
	0132 unIDs	2,4 Mr. Bean in SS & Azteca-13
	tr 0815 K33DB	33TX Houston; KPXB-49; local off
	Es 1805 unIDs	2,4 Azteca-13, others
	21Es 2310 unID	2 XHQ-3 Culican relay
		unIDs 2,4,5,6 Mexico
	23Es 0132 KNAZ	2AZ Flagstaff
	28tr 2305 Tropo	already out to Blioxi, Houston, DFW

Western TV DX *D. Oglethorpe's report cont*

29tr	0005	K33DB	33TX	Houston	205
	0025	KZTV	10TX	Corpus Christi	385
	0030	KEDT	16TX	Corpus Christi	385
	0235	KVEO	23TX	Brownsville	502
		XHFOX	17TAM	Reynosa	513
	0315	XHAB	7TAM	Matamoros	503
		XERV	9TAM	Reynosa	513
	0352	KLUJ	44TX	Harlingen	491
	0355	XHVTV	54TAM	Matamoros	503
31Es	0000	WGRZ	2NY	Buffalo	1091
	0028	WUND	2NC	Columbia; UNC	1031
	0050	unID	2	North, PBS	
	0058	KDLT	5SD	Mitchell	815
	2305	WBAY	2WI	Green Bay	892
January 1999					UTC
01Es	1958	XEWI	2DF		
		XHTV	4DF	Mexico City; Central 4	948
		XHGCI	5DF		
	2000	XHCHN	2GUER	Supered ID	1100
	2055	XHHHN	2OAX	Supered: 'XHHHNCH2'1050	
	2100	XHFM	2VER	Veracruz; Note#1 900	
03Es	1955	WDTN	2OH	Dayton	735
	1959	WSJK	2TN	Sneedville	665
	2150	KDKA	2PA	Pittsburgh	945
04Es	1538	WMAR	2MD	Baltimore	1072
	1540	WSJK	2TN	Sneedville	665
	1715	unID	2	Mexico to W. cooking show	

Note #1 XHFM is now using calls in addition to Telever/Televisa Veracruz. Also have a new logo: Big "2" with "canal" written at top.

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

November 1998					CDT
12 tr	2220	KTAL	6TX	logo, ads; mixing w/WDSU	265
	2311	WAWD	58FL	local ads; confirmed on trip there	265
22 tr	0200	KYPX	42AR		300
		KLRT 16	AR		305

December 1998					
6 gw	2000	WSTY-LP	23 LA	ID, Hammond Xmas parade Station #500!	40
19 Es	1135	unID	4 SS	weak, brief	
21 Es	1809	unID	4,5 SS		
26 tr	2143	WJSP	28GA	GPTV	390
	2145	WPBA	30GA	program match	455
	2151	WATL	36GA	local ads	455
	2152	WNGM	34GA	music videos	515
		WUPA	69GA	NYPD Blue	455
	2201	WTBS	17GA	ID	455
28 tr	1652	KFWD	52TX		395
	1655	KPXD	68TX	Pax	385
		KDXT	58TX	TBN	365
	2131	KLRT	16AR	ad for Q-100 100.3	305
	2208	KYPX	42AR		300
		KHSX	49TX	floating over WPXL	375

January 1999					
01 Es	1401	XHG	4JAL	ID	1020

Not much to report so far this winter season. I did make a trip over to the Destin area of FL to confirm that WAWD-58 is in fact broadcasting "Beach TV" (tourist info), and that W48BC Destin is also broadcasting the same thing. The engineer said that W48BC would eventually go away.

Fernando Garcia, San Salvador 415, Rincon de la Sierra, Cd Guadalupe, NL, 67181 MEXICO
fertrvd@sdm.net.mx

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-logs in the same month, only tropo 500+ miles.

December 4					CST
1915	KXTX	39 TX	Dallas		518
	KDTX	58 TX	Dallas		518
2000	KDAF	33 TX	Dallas		518
	KTXA	21 TX	Fort Worth		518
	KDFI	27 TX	Dallas		518
	KHSX	49 TX	Irving		518
	KXAS-DT41	TX	Fort Worth		
2015	KPXD	68 TX	Arlington		518
	KMPX	29 TX	Decatur		537
2115	KFWD	52 TX	Fort Worth		522
2200	KADN	15 LA	Lafayette		586
2245	KETK	56 TX	Jacksonville		532
	KFKX	51 TX	Longview		557
2330	KLDT	55 TX	Lake Dallas		544
	KUVN-LP	31 TX	Fort Worth		521
			UNIVISION		

December 5					
0245	KWHB	47 OK	Tulsa		765
	KWMJ	53 OK	Tulsa		766
0300	KPSG	43 OK	Oklahoma City		706
	KAMC	28 TX	Lubbock		553
	KSBI	52 OK	Oklahoma City		692
	KOPX	62 OK	Oklahoma City		705
0315	K69HD	69 LA	Church Point		586
	KLPB	24 LA	Lafayette		567
	WVLA	33 LA	Baton Rouge		633
	KTFQ	41 OK	Tulsa		766
	KOKI	23 OK	Tulsa		766
	KDOR	17 OK	Bartlesville		795
0630	KVHP	29 LA	Lake Charles		530
	KLTL	18 LA	Lake Charles		548
0745	WAPT	16 MS	Jackson		754
2130	WLPB	27 LA	Baton Rouge		638
	K66FI	66 LA	Opelousas TBN		599
	WDBD	40 MS	Jackson		754
2200	WGNO	26 LA	New Orleans		694
	WLAE	32 LA	New Orleans		694
2245	WMAU	17 MS	Bude		697
2330	WPMI	15 AL	Mobile		838
	KMSS	33 LA	Shreveport		615
	KLTS	24 LA	Shreveport		616
2345	KASN	38 AR	Pine Bluff		772

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

December 8					
2100	WNOL	38 LA	New Orleans		694
	WPXL	49 LA	New Orleans		688
2130	WMAH	19 MS	Biloxi		770
			Open Lake Charles-Biloxi		
December 20					
2030	KBZO-LP	51 TX	Woodrow		558
	KPTB	16 TX	Lubbock		555
			unID ch 62 Shop at Home		
	KCBD	11 TX	Lubbock		555
	KLBK	13 TX	Lubbock		554
	KTXT	5 TX	Lubbock		558

2145			Open Lake Charles-New Orleans		
December 21					
0530			open Lubbock-OKC		553
			I got KAUT-43, ex KPSG		692
0600	WUPL	54 LA	Slidell		705

December 29					
0745	WPAN	53 FL	Fort Walton B.		869
	WEIQ	42 AL	Mobile		825
	WHBR	33 FL	Pensacola		838

Additional days of December with 500+ miles and furthest log:

8 Pine Bluff, AR 772
9 Dallas, TX 518
16 Mobile, AL 818 rare narrow duct at 6:45 AM, no more DX
17 & 18 DFW, TX 522
19 Lake Charles, LA 530
24 & 25 Dallas, TX 518 over a freeze path
26 Mobile, AL 818
28 Biloxi, MS 770
30 Mobile, AL 818
Not much time to DX or check conditions after Dec. 26 because of the birth of my son Christian. 1998 was the best for tropo thanks to exceptional conditions from mid to late Spring. New record of number of days for a year of the following states: AL/90, AR/33, FL/78, GA/32, IA/1, LA/183, MS/91, NE/2, NM/1, OK/30, TN/17, TX/172 (500+miles). 73's Fernando

Victor Frank, K6FV, 12450 Skyline Blvd, Woodside, CA 94062-4554

I received the following Christmas Present from Dennis Smith: "I can identify one of your three 'August-September misidentified or spurious' TV loggings in your December-column report, that of KFTL-64 Stockton on channel 24. There is a ch-24 translator in the Oakland-Berkeley Hills for KFTL, because of its inability (shadow area) to serve Oakland/Berkeley directly from its Mt. Diablo transmitter. I has been on for several years (since

approximately 1992). When I still lived in Chico, a friend I knew there was planning on moving to the Dublin/Danville area, as he had found half-time work each at KCSO-19 Modesto and KFTL-64 at its studios-offices in Castro Valley. In 1990, when we both left Chico, he mentioned that KFTL was planning a ch-24 translator for Oakland/Berkeley. I first noted ch. 24 on the air in 1992 while visiting a cousin in Oakland and occasionally since then while riding BART trains with a portable TV receiver. . ."

It was, however, not in the data bases kept by Fred McCormack and Doug Smith.

This Christmas vacation, we visited my son and his family in Portland. However, instead of flying, we drove--or rather I had others drive, up Highway 505/5 while I monitored with my R7100, TV converter, and small B&W monitor and logged every transmission I could hear in the TV bands using a UHF LPA I built on a PC board placed next to the back window. I hope to report on what I heard in a future column once I devise a better way of analyzing the data. Each bandscan took between 30 minutes and an hour.

Channel 55 had been one of my blank channels, so you can imagine my delight to detect an S2 video carrier on 717.2513 MHz west of Colusa. It had an unmistakable hum, and on the next bandscan near Willows was S5 and both audio and video were copied with a home shopping type of program.

So when I got home I went looking for this station and I copied them identifying as TV55 Chico with "America's Store" They also indicated that they had just come on the air and requested viewer reports and gave a phone number, which I called, and left a message on their answering machine. A few days later I was called by Matt Tuter, who indicated that they were indeed K55HR, and had a new 1 kW transmitter with antenna on the KHSL tower for 20 kW ERP.

We got to talking and he was very familiar with the Oakland channel 24 transmissions, they were licensed as an Intercity relay. However they went off the air when KGO-DT came on. (First heard here on 12/30) It fills up ch 24 with hash, amplitude rapidly falling near the channel edges. I can hear it from 528.4 to 537.5 MHz. KPIX-DT is on ch 29 and KTVU is on ch 56 (logged 1/10), but. I don't think I should count these as "ID'd" until I find some way to decode them. I noted two duplicates in December report, KBTV-LP and KMSG, so as of last report, I should be down to 67. New ones include one out-of-state DX, KREN-27 and an unID with ESPN on ch. 33, but they will wait until next month as we've just filled this page.

EASTERN TV DX

February, 1999

Russell Miller
 HC 61, Box 86B
 N. Amity, ME 04471-9622
 email address - estvdx@ainop.com

LOCAL TIME UNLESS OTHERWISE NOTED

Roy Barstow, P.O.Box 2488, Teaticket, MA 02536

November, 1998

28 Tr	1800	W19BM	19 VA	450
		W35BH	35 VA	400
		W45BG	45 VA	456
	1830	W24BI	24 VA	460
		W40AH	40 VA	450
		W41AC	41 VA	410
		15,27,33,43,49	E.VA.	
30 Tr	0830	WBNG	12 NY	277
		WHYY	12 DE	265
	0900	WYDO	14 NC	562
		WUNJ	39 NC	660
	0905	W35BH	35 VA	400
		WUNM	19 NC	577
	1000	W42AE	42 NY	
		W14AZ	14 NY	
	1100	WWPB	31 MD	409
	1430	W24BB	24 PA	535,720
			12 RI off	
			Mentioned Hazelton	

December, 1998

01 Es	1630	WDIQ	2 AL	1112
02 Tr	2030	W35BH	35 VA	400
		W24BI	24 VA	460
		W41AC	41 VA	410
		W44AD	44 VA	410
		W45BG	45 VA	456
	2100	WUNM	19 NC	577
		WUNJ	39 NC	660
		WYDO	14 NC	562
		W18BS	18 VA	450
		W62CN	62 VA	450
		W40AH	40 VA	450
	2130	W18BB	18 NC	490
		WSFX	26 NC	660
	2200	W36BK	36 VA	400
	2300	W56CS	56 VA	450
		WLFL	22 NC	600
		WRAZ	50 NC	600
		WRAY	30 NC	565
	2355	WNCN	17 NC	592
		WVBN-LP	19 VA	460
		WJHJ-LP	19 VA	480
03 Tr	0015	WJHJ-LP	31 VA	440
	0020	WUNP	36 NC	533
	1100	WCVE	23 VA	467
		WVEC	13 VA	450
		W24BI	24 VA	460
			in all day	
05 Tr	1500	CIVQ	15 PQ	361
		CIVB	31 PQ	427

14 Tr	2100	WUNJ	39 NC	660
		WUNM	19 NC	577
15 Tr	PM	E. VA Area		
18 Ms	AM	CHAU	3 PQ	494
		Es PM	WEDU	3 FL
				1153
22 Ms	0331	CHAU	3 PQ	494
		Es 0630	WCSC	5 SC
				778
23 Ms	0441	CBHT	3 NS	408
24 Ms	0645	CKVR	3 ON	497
25 Ms	2307	WRBL	3 GA	1007
29 Es	1458	CUBA	3	1440
		1530	WPBT	2 FL
				1209
		Ms 1703	WAVE	3 KY
				834

WCSC 5-SC a long hold out, was in for 10 min. on Ms tape (Es). What Luck! After adjusting one of the 14 ants. on the roof, put on Ch-3 and a cuban T P coming in. Same exact picture in April 96 photo news. Thank you Photo News. Local LP 23 WRIW RI now on Ch-50.

ETV Editor: Roy Barstow really does have 14 antennas on the roof of his house, as seen in a photo he sent me. Someday, the wrong hurricane will move up the coast, and either all his neighbors homes will be punctured with dipoles or his whole roof will land in Cape Cod Bay.

Thomas J. Yingling, Jr., 221 Pinewood Rd., Baltimore, MD 21222-2345

I found some time to send in a report of some tv dx to report. Not much to report, but got an opening to northeast direction one morning. TV is Sony 8" color set with 6' CM dish and CMB-UB pre-amp.

August, 1998

16	12:00 a.m. to 3:00 a.m.			
		WABU	68 MA	seen on ch. 58
		WXNY	39 NY	Spanish music videos
		WXNY	35 NY	same as above
		WBNE	59 CT	New Haven
		WBPX	46 MA	Norwell
		WLIW	21 NY	Garden City
		WLWC	28 MA	testing color bars
				id'ing as WB28
		WIMP	20	music videos
		WSBK	38 MA	Boston
		WIPX	38	
		WLVI	56 MA	id'ing as WB56
		WTXX	20 CT	Waterbury

Dave Nieman, Ho Sta Geh Rd., Rock City, NY 14749

Equipment: Teknika 6510 tuner into a Quasar 25" TV (MFG. 1977) plus an ICOM IC-R7000 with TV-R7000 TV receiver adapter. Channel Master 3617B VHF antenna at 15 feet AGL., on a Radio Shack rotor, Belden RG-6 coax feed into a Winegard FT-7600 FM trap (set to trap 95.7 MHz) and Winegard DA-205 distribution amp. Antennacraft P-7 UHF antenna at 51 feet AGL on an Alliance HD-73 rotor, Winegard PA-4975 preamp and Belden RG-11/u coax feed.

All underlined loggings are new. Teknika for VHF and ICOM receiver for UHF reception.

October, 1998

24 Es	2108	KGFE	2 ND	1037
-------	------	------	------	------

November, 1998

28 Tr	1230	WRAY	30 NC	427
29 Tr	0928	WFXR	27 VA	344
		0959	WBRA	15 VA
		1000	{WPXR}	38 VA
			ex. WEFC (PAX-TV)	
		1000	WSBN	47 VA
				416

December, 1998

06 Tr	0900	WSPX	56+ NY	151
			Syracuse (PAX-TV) new-to-the-air	

Russell Miller, N. Amity, ME

Equipment: Two Low Band Log-yagis 5' above ground. Horizontally polarized, horizontally separated by 14' on horizontal PVC boom on rotator and wood stand. Equal length coax from "in phase" baluns to combiner. Titan II Pre-amp 23db gain. Time underlined = multiple times seen this date

December, 1998

14 Ms	0300	CIII	2 ON	486
		0316	WUND	2 NC
		0359	WTWO	2 IN
		0509	Shopping	13 weak
16 Ms	0624	KYW	3 PA	550
17 Ms	0632	WTKR	3 VA	750
		0710	WWAY	3 PA
				966
18 Ms	0242	CBVT(t)	3 PQ	
			Mont. SRC/CBC slide	
18 Es	1602	WCBF	2 SC	1111
		1801	WESH	2 FL
19 Ms	0505	CBVT(t)	3 PQ	1359
		0600	WTKR	3 VA
		0603	WTKR	3 VA
20 Ms	0303	CHAU	3 PQ	200
		0510	CHAU	3 PQ
21 Ms	0154	WFSB	3 CT	373
		0500	WTKR	3 VA
		0500	WWAY	3 NC
		0521	CBHT	3 NS
		0534	CKVR	3 ON
		0629	WPSX	3 PA

			WPSU FM Promo	
22 Ms	0259	WTKR	3 VA	750
24 Ms	0223	CBVT (t)	3 PQ	
		0644	WTKR	3 VA
		0646	WVMT	3 MI
		0646	CBOT(t)	3 ON
25 Ms	0100	WPSX	3 PA	550
		0143	WSTM	3 NY
		0225	CKVR	3 ON
		0343	CBVT(t)	3 PQ
26 Ms	0313	WVMT	3 MI	911
		0443	WTKR	3 VA
		0554	MCTV	3 ON
			Slide	
		0635	KYW	3 PA
27 Ms	0234	WAVE(t)	3 KY	550
		0313	CBVT(t)	3 PQ
		0657	WTKR	3 VA
28 Ms	0327	unID	3	Amer/Store
		0518	CKVR	3 ON
		0519	CHAU	3 PQ
				200
			mxing w CBHT (twice 1 min. apart)	
29 Ms	0525	WTKR	3 VA	750
31 Ms	0649	KYW	3 PA	550

January, 1999

02 Ms	0519	WTKR	3 VA	750
		0600	CTV	3 ON
		1202	WKYC	3 OH
				748
03 Ms	0348	MCTV	3 ON	
		0351	CBVT(t)	3 PQ
		0405	WTKR	3 VA
		0614	CBHT	3 NS
		1305	WVMT	3 MI
		1532	WKYC	3 OH
			Seen 40+ times this date	
04 Ms	0626	WFSB	3 CT	373
		0518	WKYC	3 OH
				748
05 Ms	0214	WKYC	3 OH	748
		0312	WFSB	3 CT
				373
06 Ms	0229	CHAU	3 PQ	200
		0534	WKYC	3 OH
		0609	KYW	3 PA
				550
		0651	WTKR	3 VA
				750
07 Ms	0345	unID	3	Amer/Store
		0455	CBOT(t)	3 ON
				3/4s CBC not N.S. (weak)
		0507	WKYC	3 OH
		0521	CHAU	3 PQ
		0648	KYW	3 PA
				550
09 Ms	0635	WTKR	3 VA	750
10 Ms	0240	WTKR	3 VA	750
		0502	WBTV	3 NC
				1003

Comments: Local Woodstock NB Ch-3 is so strong it even hinders my Es reception. The Low Band stack attenuated Woodstock too only about 30db above the noise level. However, by rotating my CM 1110, some 60' away, to specific bearings, it nulls Ch-3 Woodstock to pure snow on the Low Band stack. Different nights require different bearings of the CM 1110. The stack stays pointed W-SW. Do we have any rocket scientists who can explain how this happens?

ANTENNA BASICS

from *Channel Master*[®]

BASIC TV ANTENNA TYPES

TV antennas can be grouped in four major functional categories: VHF/FM, UHF, UHF/VHF/FM, and FM only combinations.

VHF and FM Antennas LIKE CM CROSSFIRE

Most VHF (Very High Frequency) antennas are engineered to receive TV channels 2 through 13. They also will receive the FM radio band, which is located between TV channels 6 and 7. FM only antennas are available also (Figure 1-6). Channels 2 through 6 are known as the low band. Channels 7 through 13 are referred to as the high band. Some VHF antennas are designed to receive only one band, either the low or high band. Antennas designed to receive both the low band and the high band are called VHF/FM broad-band antennas (Figure 1-2).

TV channel 1 "disappeared" in the early days of TV because of a change in frequency assignments by the Federal Communications Commission (FCC). A reshuffling of FM, Amateur, and other bands removed TV from the frequencies previously reserved for TV channel 1. Because the other 12 TV channels were already numbered 2 through 13, the channel 1 designation simply was dropped.

UHF Antennas LIKE CHANNEL MASTER UHF ANTENNAS

UHF (Ultra High Frequency) antennas are designed to receive TV channels 14 through 69, the UHF TV band. The UHF TV band originally extended from channel 14 to channel 83. However, the FCC now has reassigned channels 70 through 83 (also known as the translator band) to mobile communications use. Although there still are many antennas capable of receiving all 82 channels, the translator band (former TV channels 70-83) is useless to the TV viewer. UHF TV antennas come in a wider variety of shapes and sizes than VHF/FM antennas. The wider variety of UHF designs (Figure 1-3) is possible because they don't require the long elements that VHF/FM antennas do.

Combination UHF/VHF/FM Antennas

LIKE C.M. UHF ANTENNAS QUANTUMS, CROSSFIRES, ADVANTAGE

Combination UHF/VHF/FM TV antennas are designed to receive both the UHF and the VHF/FM bands. Although the use of separate antennas for each band is ideal for peak reception, high-performance UHF/VHF/FM combination models are readily available and are becoming increasingly more popular. Examples of combination UHF/VHF/FM antennas are shown in figures 1-4 and 1-5.

HOW TO SELECT THE RIGHT ANTENNA

There are many bands and hundreds of TV antenna models available. However, choosing the right one is relatively easy if you are aware of a few basic reception and TV antenna characteristics.

First, "good reception," or production of a snow-free color TV picture, requires a signal level of about 1000 microvolts (pV) = 1 millivolt (mV). To deliver this signal level to the receiver, the antenna requires a certain antenna gain. The amount of gain required is dependent on the distance between the station's transmitting antenna and the receiving antenna. The required type of antenna therefore depends on the channels to be received and the distance and direction of the customer's home from the transmitting antennas. These facts are readily available for any area but be sure your information is accurate and complete. Call a local TV station if you have questions. Most TV stations are willing to help TV antenna installers because they also benefit from the improved reception to the station's viewers.

Be sure to discuss with your customers the number and types of channels that are receivable. This may sound basic, but your customers may not understand the difference between VHF/FM and UHF. They also may not be aware that with the right equipment they may be able to receive out-of-Town channels, some of which may carry sports programs that are locally blacked out. The most important points to remember when selecting an antenna are its gain, sensitivity classification, directivity, and front-to-back ratio.

CHANNEL MASTER

Gain

The gain of an antenna indicates the relative strength of signal it can deliver to a receiver. Most manufacturers list the gain of their antennas in decibels (abbreviated "dB"). The higher the antenna gain, the stronger the signal at the antenna output terminals. In most cases the larger the antenna, the higher the gain.

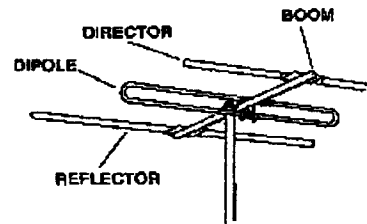


Fig. 1-1. The principal parts of a basic Yagi-type TV antenna.

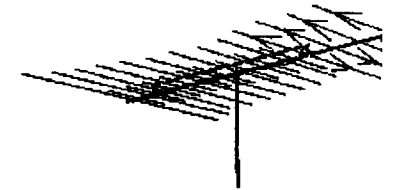


Fig. 1-2. A VHF/FM broad-band TV antenna.

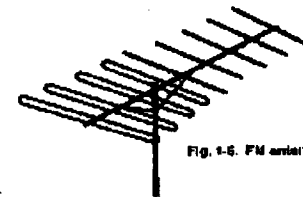


Fig. 1-6. FM antenna.

Fig. 1-3. Various designs of UHF TV antennas.

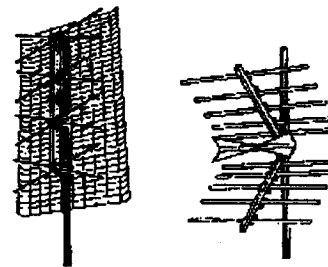


Fig. 1-5. Channel Master[®] CROSSFIRE[®] UHF/VHF/FM

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FOR THE LATE DELIVERY OF THE JANUARY
VUD! WINTER WEATHER DISASTERS
NOTWITHSTANDING,
WE'RE HOPEFULLY BACK TO NORMAL DELIVERY
THIS MONTH! STAY TUNED, AND STAY WARM!**

ET Detection of Earth TV Unlikely

by Dale Lamm (DaleLamm@worldnet.att.net)

Recently on the SETI email discussion list there has appeared some good dialog regarding possible detection of Earth TV broadcasts at ET locations. [These discussions were stimulated by the question: could beings on worlds 40 light years distant really be viewing *I Love Lucy*? -- Ed.] This is not a novel idea. An older book titled *Communication With Extraterrestrial Intelligence* (editor Sagan, 1973, MIT Press, ISBN 0-262-69037-3) mentions the possibility of eavesdropping by ETI in the chapter *Techniques of Contact*. I have seen this idea mentioned many times in other writings.

Discussion on the list has been centered on detection of UHF television broadcasts, which in the US encompasses the band 470-806 MHz (minus the astronomy allocation at channel 37, 608-614 MHz). Why has interest been focused on UHF television?

Some possible reasons:

In the US, all analog television channels are split across three bands; low VHF (54-88 Mhz), high VHF (174-216 MHz) and UHF. Maximum permitted EIRP is 100 KW for low VHF, 316 KW for high VHF, and 5 MW for UHF. Horizontal polarization is the rule, with circular polarization being allowed at the broadcaster's discretion. It would thus be possible to radiate up to 10 MW EIRP from a single facility. The varied limits across bands help compensate for differences in terrestrial propagation, in theory placing the UHF broadcaster at parity with the VHF broadcaster.

Because UHF TV stations radiate more power, and because the UHF band is nearest to the so called "microwave window" of 1.2-50.0 GHz, it would seem to some that these broadcast signals have the best chances of being detected at astronomical distances. There are hundreds of UHF TV stations in the US alone, each radiating day and night, year after year. Could these act as unintentional beacons to an interested ETI?

This writer's opinion is that there are far better candidates for Earth's "unintentional beacons". Here are my reasons:

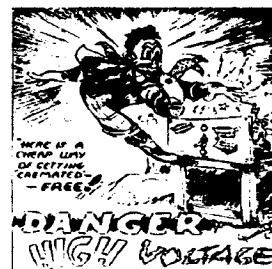
One goal of a TV broadcaster is to deliver modulated RF as cheaply as possible to as many receivers as possible. Five MW of power at UHF frequencies is not easy to come by. The typical way of doing so is to generate 60-240 KW of power at the transmitter, then excite an antenna having 10-14 dB of gain. The 60-240 KW of power needed at the transmitter output is obtained with much difficulty, usually by generating a modulated carrier at low levels and passing that through class-A vacuum tube (klystron, IOT or tetrode) amplifiers with attendant low efficiencies.

Electricity is not free. The engineer responsible for design and/or operation of a transmission facility would not think of squandering RF by intentionally directing it into the sky. The TV audience makes their homes near ground level. Gain of a TV broadcast antenna is obtained by concentrating the radiation into one direction. From a bird's eye view, the signal radiates in all directions, equally well North, East, South and West. From a side view, the main lobe is carefully engineered to equally illuminate receiving antennas on the ground, both close in and near the horizon. What is often done is to aim just below the horizon, and design in some null-fill to accommodate the close in receivers. From a typical transmitting antenna height of 1000 feet, the desired beam tilt will be something on the order of 0.5 degrees negative (that is, below horizontal). Any energy radiated above the horizon is wasted, as far as the broadcaster is concerned.

In an imperfect world, some energy does radiate above the horizon, but this side lobe is much reduced in amplitude. Likewise, some of the energy striking the ground reflects back into space, but it will be scattered and specular.

There are better "unintentional beacon" candidates for study and speculation. Consider SPASUR (space surveillance radar) at 217 MHz, or varied other defense radars operated by the military (see the Raytheon home page for the names of some of these systems). Perhaps even HARRP transmissions (2.8-10.0 MHz at 3 MW+) may be detected at great distances, although the frequencies employed are far from ideal.

Some of you might be interested to know that the US has already orbited what amounts to a sensitive spectrum analyzer which has observed the Earth. Project Blackbeard was established to study TIPP (trans ionospheric pulse pairs), events possibly associated with lightning storms. Frequencies ranging from 25-100 MHz are observed. Spectrograms may be viewed on the project's home page (<http://sst.lanl.gov/nis-projects/blackbeard>). They show strong RF carriers of Earth TV and FM broadcasts. Keep in mind that these carriers have been detected from a satellite a few hundred miles above the Earth, not from interstellar distances.



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June 1991	4
July 1991	4
August 1991	3
December 1991	4
January 1995	6
February 1995	9
March 1995	7
April 1995	10
May 1995	9
June 1995	10
July 1995	10
August 1995	2
September 1995	10

October 1995	10
November 1995	5
December 1995	10
January 1996	10
February 1996	3
March 1996	10
April 1996	10
May 1996	10
June 1996	9
July 1996	10
August 1996	10
September 1996	10
October 1996	10
November 1996	10
December 1996	10
January 1997	9
February 1997	10
March 1997	10
April 1997	10
May 1997	10
June 1997	10
July 1997	10
August 1997	10
September 1997	10
October 1997	10
November 1997	10
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