

Vhf-Uhf DIGEST

The Official Publication of the Worldwide TV-FM DX Association

JUNE 2000

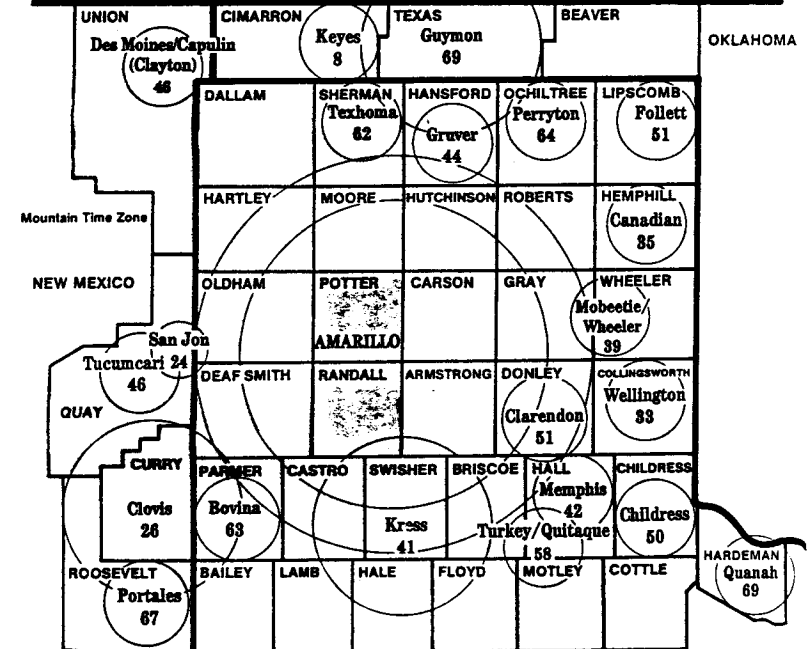


Channel: 10
Network: CBS
Visual(kw): 316
Aural(kw): 31.6
Antenna Hl.: 5047'
(above mean sea level)

KANSAS

MORTON STEVENS SEWARD

Central Time Zone



KFDA transmits from a site 2½ miles north of Amarillo.

METRO AREA CABLE/DMA COVERAGE PART OF TOTAL SERVICE AREA WITH KFDA COVERAGE

TRANSLATOR Location of Translator
64 Channel Number

KFDA News Channel 10's Transmitter/Translator coverage is second to none!
KFDA News Channel 10's Tower Height and Transmitter Power are the highest allowed by the FCC.

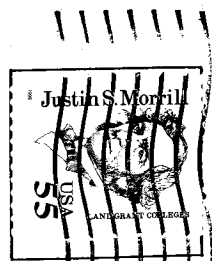
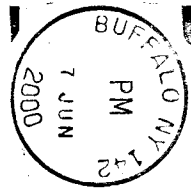


WORLDWIDE TV-FM DX ASSOCIATION
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WORLDWIDE TV-FM DX ASSOCIATION

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:

CONTEST CALAMITY: Mother Nature surprised all of us with an early start to the 2000 Es season, and in so doing, completely screwed up the contest announced in last month's VUD. If you sent an entry, it has been voided. In an effort to salvage the contest idea, we've come up with a two-dimensional plan that includes both FM and TV Es loggings for the entire month of May. You will automatically be entered when you submit your TOTAL number of loggings (along with the usual details) to our statistics guru, Fred Nordquist. Your report(s) must be in his hands no later than June 30, 2000. The person who reports the greatest number of TV Es loggings will receive the new "TV STATION GUIDE"; and the person reporting the most FM Es loggings during May will get a copy of Bruce Elving's "FM ATLAS". (Note...Es loggings only; and relogs will be counted. Example: if you logged WPBT four times during the month, it will be counted as four points toward your total.) Remember, the ONLY way to enter is by submitting a report to Fred.

NEMDX (status report): This column returns in somewhat abbreviated form this month thanks to the extra efforts of a member who wishes to remain semi-anonymous. There's more good news...a strong possibility that a new full time editor may soon be named. Meanwhile, until there is an official appointment, the position is considered as remaining open. If you're interested in the job, let us know.

WTFDA CONVENTION: Our return to the Whiteface Chalet near Lake Placid, NY is two months away. If you plan to attend the August 11-13 event, it's time to get your \$20 registration fee in to host Peter George; and to contact the Chalet to reserve accommodations. Get full details at: <<http://welcome.to/lakeplacid2000>>. Prices listed are a **package rate** for the weekend. Costwise, it will be to your benefit to share a room with up to three other DXers. If you choose lodging other than Whiteface Chalet, remember that you'll still need to pay the registration fee; and that the cost of our Saturday evening banquet will be \$19.50 per person for those not taking advantage of the Chalet's package pricing. If you don't have internet access and would like more information, write to WTFDA's Convention Coordinator Tom Bryant, 849 Todd Preis Drive, Nashville, TN 37221.

ENHANCED TROPO FORECASTS: Bill Hepburn has outdone himself with his newly created maps and greatly expanded areas of coverage. This color presentation replaces the text version which has proven to be extremely reliable. If you don't have a computer, this is another good reason to consider going 'on-line'. Our thanks to Bill for this terrific DXing aid. The URL is: <<http://www.iprimus.ca/~hepburnw/tropo.html>>

DEATHS: Aaron Shelton, Nashville recording pioneer and former Chief Engineer of WSM-tv died April 20 at age 89. He was guest speaker at the 1993 WTFDA convention in Nashville. Shelton was connected with a long list of 'firsts' in television engineering; among them, the "orbiter" which prolonged the life of monochrome image orthicon camera tubes by retarding image 'burning'. Word has also been received that Costa Rican television pioneer Carlos Manuel Reyes, TISCMR, died last month in a retirement home in Costa Rica. In 1954 Mr. Reyes was responsible for the first formal TV transmission from downtown San Jose using a 'homebrew' camera.



WTFDA MAILBOX

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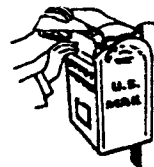
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SUMMERTIME, SUMMERTIME, SUM-SUM- SUMMERTIME

Welcome to the June VHF/UHF Digest, a place where we have more fun than human beings are supposed to have. Darn, that Limbaugh's line. Anyway, E skip started in the first week of May, with three openings in one week observed. Tropo was there also as Doug Smith picked up quite a few Texans during a two day period and Dave Pomeroy caught some stations in Fernando's backyard. I hope you all caught some Es or Tropo and I hope your computer did NOT catch the "I Love You" bug.

Well, we have more new WTFDA members! Welcome in to Milton C. Bay from Brooksville, KY, Douglas Gault from Kingston ON (I've heard his 107.5 on my car radio many times), Kevin Lee Short from Bluefield, WV and Forest Smith Jr. from Portland, ME (pass me the lobster, Forest).

Also a big welcome back to Leslie Green from Plaquemine, LA who was away for a few months. Thanks for joining and coming back home, and we are glad to have you all here!



Writing their checks for \$24 for another year are John Hourigan, Phil Sullivan, Larry Weisberg (got your station guide yet?), Ray Leko, Eric Fader, Ray Houchins, Michael Parks, William Thompson, Ed Kowalski, Kermit Reid, Mike DeRoo, Bill Burrows (keep on truckin' Bill) and Tim

Clampitt. Eric Sandius moved from beautiful Oceanside, CA (where we have relatives) to beautiful Sierra Vista, AZ. Thank you all for staying with us!

HELLO FROM PORTLAND. I asked Forest Smith how he found out about the club. Here is what he said..."I learned about the WTFDA by surfing the internet. I never did any DXing on the FM Broadcast band before. Actually I never did much casual listening on the FM Broadcast band before. I was born in Portland, ME in 1933 and as a boy growing up a lot of my time was spent reading comic books, going to the movies, sometimes 2 or 3 times a week, and of course listening to the great programs and sports events on AM radio. Well, I eventually outgrew comic books, I never got tired of watching movies, and television programs replaced most of the AM radio programs, much to my dismay.

Soon afterwards I became interested in electronics, radios, etc. I eventually purchased a communications radio receiver and a copy of the "World Radio Handbook" and began listening to shortwave programs.. At that time I think there was only one FM Broadcast band station available in my area.

I had stopped DXing 20 years ago. All of my listening equipment, DX logs, and QSLs have been long gone. I had actually thought that no one did any DXing anymore since the arrival of satellites, cable, and the internet. I was just recently greatly surprised to find so much information on DXing activity on the internet. I have now begun to DX again. I purchased a Radio Shack Optimus (Super Radio), a Radio Shack DX-398, and a Crane CCRadio. I have begun to log AM BCB radio stations again. I have logged a few FM Broadcast band stations also. I am, of course unfamiliar with FM DXing, what receivers to use, etc.; so I decided to join your organization to receive information from your monthly bulletins. (And of course we'll help in any way we can -Mike)

GREETINGS FROM SAN JUAN! Luis Franceschi is our new member in Ponce, Puerto Rico. Recently he sent some updated television info to me, which I emailed to **Doug Smith**. Doug's reply to Luis: "Received and appreciated! I don't get much good information from there. Most data relies on old listings in the Factbook which imply that certain stations (like WLII and WPRV) carry mainland networks in English. I doubt the accuracy of that info". So Luis, keep it coming because Doug can really use the information, and I'll think of you when we're freezing here in February.

MORE FILTER NEWS! From Bill Nollman: "I used to have to call the factory and lie about who I was to get Murata IF filters years ago. Then I found a local electronics place I could buy them from for about \$5 ea. I was just replying to a WTFDA member who was asking about filter info, so I punched up the distributors web site and for kicks searched for the filters. I was shocked to find that the search returned what I was looking for AND they are now 61 CENTS for 110 khz filters and 39 CENTS for the 150's. Geeezzsh! (not sure if minimum purchase). The Murata 110's part number to search for is SFE10.7MHYA. The Murata 150's part number to search for is SFE10.7MJA10A. The web site is <http://www.arrow.com>. Their phone number is (877)237-8621. By the way these filters are MUCH better than the Toko's. If you have any doubt, then why do you find the Murata 220 and 280's in every tuner out there ?

NEW USES/OLD BOOSTERS. From Bruce Elving: "I have re-discovered a new way of phasing using an old technology. I just sold my old Ameco FM pre-amp. In the process of refurbishing it for my customer, I adjusted the internal coils and screwdriver settings at the base of the tuning condenser (that's what they called those things when the unit was made; it uses two nuvistors (tubes, not transistors). It is really a tunable FM (only) booster, with a knob on front for tuning along the FM band. I changed many of the internal settings and brought it up to par.

Then I tried it with my Bolin phase box and the two antennas used with that phase box. Wow! It did not do much to enhance the signal, but it provided a third knob to vary the phasing with. It increased the nulls that are possible. Usually by tuning the booster to the frequency you are listening to it brings about a null, rather than a gain. Perhaps this is slope detection--where the booster is acting to the side of the signal rather than straightway on it.

Earlier, I had tried an old TV-FM booster with a tuning knob, and by tuning it to around channel 4 or 5 was able to phase FM. It had a slide rule type tuning, and of course I sold it and no longer have it. But I think this recent experiment shows the validity of using a tunable booster for purposes that it was not intended for. I repeated the experiment with a non-tunable Radio Shack amplifier and did not get satisfactory results. Magnum Dynalab still offers its tunable FM "signal sleuth," which is over \$200 and does not seem to have the gain the older, more simple Ameco has. However, for phasing purposes, you probably don't need much gain".

NEW IL WEATHER RADIO. From Ken Onyschuk: "On the weekend of Apr 29-30, National Weather Service radio station WXJ-25 (I think it's the correct calls) signed on at 162.450mhz from Odell, IL along I-55 about 70 miles SW of Chicago and about 40 miles SW of downtown Joliet. On my new CCrane radio it has a good signal at my home on the west side of the Des Plaines river in a valley just minutes from downtown. The signal will be heard from La Salle Co. to the west to Indiana state line. The programming will be from Romeoville, 6 miles North of Joliet with Pontiac serving as the primary site. With rough weather season arriving, the new stations will yet be another safety net. I've listened to KWO-39 162.550 Chicago for over 30 years on various radios and I've toured the N.W.S. facility in Romeoville last year during an "open house" last fall.

LAST BUT NOT..... Another toy on the internet for us. The WTFDA Television and Radio Forum at <http://www.Delphi.com/wtfda>. Chat on the web instead of using a chat program. It's easier. Hook up your mic and try voice chat. It's different. Or post a msg or reply on the forum's message board. Heck it out. Log yourself in and take a look! Thanks everyone and see you next month. -Mike

TV News

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June 2000

<http://personal.bellsouth.net/~w9wi>

Applications for new stations

These are applications for new DTV stations, showing their analog and digital channels:

AL	Anniston	WJSU	40=>58	IL	Springfield	WCFN	49=>53
	Huntsville	WHNT	19=>59	IN	Fort Wayne	WPTA	21=>24
	Opelika	WSWS	66=>31		South Bend	WNDU	16=>22
AR	Jonesboro	KVTJ	48=>49	KS	Lawrence	KMCI	38=>36
		KAIT	8=>9		Pittsburg	KOAM	7=>30
	Little Rock	KTHV	11=>12	KY	Topeka	KTWU	11=>23
	Pine Bluff	KVTN	25=>24		Lexington	WLEX	18=>22
	Springdale	KSNB	57=>39		Louisville	WLKY	32=>26
AZ	Flagstaff	KCFG	9=>32		Newport	WXIX	19=>29
	Mesa	KPNX	12=>36	LA	Alexandria	KLPA	27=>26
	Tucson	KGUN	9=>35		Baton Rouge	WVLA	33=>34
CA	Anaheim	KDOC	56=>32		Lafayette	KLPB	24=>23
	El Centro	KECY	9=>48		Monroe	KLTM	13=>19
	Eureka	KEET	13=>11		New Orleans	WGNO	26=>15
	Fresno	KVPT	18=>40		Shreveport	KSHV	45=>44
		KJEO	47=>14	MA	Cambridge	WLVI	56=>41
	Los Angeles	KTLA	5=>31	MD	Frederick	WFPT	62=>28
	Merced	KNSO	51=>38		Salisbury	WMDT	47=>53
	Palm Springs	KEQJ	42=>52	MI	Detroit	WXYZ	7=>41
	San Bernardino	KVCN	24=>26		Flint	WFUM	28=>52
	San Diego	KGTU	10=>25		Mt. Clemens	WADL	38=>39
		KSWB	69=>19	MN	Thief R Falls	KBRR	10=>57
	San Francisco	KTSF	26=>27	MO	Jefferson City	KNBJ	25=>20
	San Jose	KICU	36=>52		Joplin	KSNF	16=>46
	Stockton	KQCA	58=>46		Kansas City	KCWE	29=>31
	Vallejo	KPST	66=>34		Sedalia	KMOS	6=>15
CO	Denver	KMGH	7=>17		St. Louis	KSDK	5=>35
		KCNC	4=>35	MS	Greenville	WXVT	15=>17
CT	New Britain	WVIT	30=>35		Tupelo	WTVA	9=>8
DC	Washington	WUSA	9=>34	MT	Great Falls	KRTV	3=>7
FL	Clearwater	WCLF	22=>21	NC	Charlotte	WSOC	9=>34
	Daytona Beach	WNTO	26=>49		Hickory	WHKY	14=>40
	Gainesville	WUFT	5=>36		Wilmington	WUNJ	39=>29
	Leesburg	WACX	55=>40	ND	Bismarck	KBMY	17=>16
	Miami	WBZL	39=>19			KXMB	12=>23
	Naples	WZVN	26=>41		Dickinson	KXMA	2=>19
	Orlando	WFTV	9=>39		Jamestown	KJRR	7=>14
		WRBW	65=>41		Minot	KXMC	13=>45
	Palm Beach	WFGC	61=>49		Pembina	KNRR	12=>15
	Panama City	WPGX	28=>39		Lincoln	KLKN	8=>31
	Pensacola	WEAR	3=>17	NJ	Camden	WNJS	23=>22
	Tice	WRXY	49=>33		Montclair	WNJN	50=>51
GA	Chatsworth	WCLP	18=>33		New Brunswick	WNJB	58=>8
	Cochran	WDCO	29=>7		Newark	WNET	13=>61
	Cordele	WSST	55=>51	NV	Henderson	KVVU	5=>24
	Macon	WGNM	64=>50	NY	North Pole	WPTZ	5=>14
	Perry	WPGA	58=>32		Riverhead	WLNY	55=>57
	Rome	WPXA	14=>51		Schenectady	WEWB	45=>43
	Savannah	WVAN	9=>46			WRGB	6=>39
	Waycross	WXGA	8=>18	OH	Cincinnati	WCET	48=>34
	Wrens	WCES	20=>36			WLWT	5=>35
IA	Ames	WOI	5=>59		Cleveland	WKYC	3=>2
	Des Moines	WHO	13=>19		Dayton	WHIO	7=>41
	Mason City	KIMT	3=>42		Toledo	WLMB	40=>5
	Sioux City	KCAU	9=>30		Zanesville	WHIZ	18=>40
ID	Idaho Falls	KIFI	8=>9	OR	Eugene	KLSR	34=>31
IL	Peoria	WMBD	31=>30			KVAL	13=>25
		WEEK	25=>57	PA	Harrisburg	WHTM	27=>57
	Rock Island	WHBF	4=>58		Pittsburgh	WTAE	4=>51

PR	Bayamon	WDWL	36->59	TX	El Paso	KSCE	38->39
	Carolina	WDZE	52->51			KVIA	7->17
SC	Rock Hill	WFVT	55->39			KTSM	9->16
	Spartanburg	WSPA	7->53		Fort Worth	KFWD	52->51
SD	Mitchell	KDLV	5->26		Houston	KHWB	39->38
TN	Jackson	WMTU	16->39		Irving	KSTR	49->48
	Knoxville	WBIR	10->31		Laredo	KGNS	8->15
	Memphis	WKNO	10->29		Lufkin	KTRE	9->11
	Murfreesboro	WHTN	39->38		Rosenberg	KXLN	45->46
TX	Austin	KVUE	24->33		Victoria	KAVU	25->17
	Beaumont	KBMT	12->50	UT	Provo	KBYU	11->44
	Corpus Christi	KZTV	10->18	WI	Janesville	WHPN	57->32
	Dallas	KDAF	33->32				

In Canada, the wireless-cable system at Cheticamp, NS (46-36-24N/61-03-15W) has requested three new 20-watt transmitters on channels 16, 50, and 55. These transmitters will carry CMT, Discovery Channel, and WGN [9].

And in Logan Lake, BC (50-30-04N/120-48-46W) seven new 20-watt transmitters have been requested on channels 16 (Space), 20 (CTV Sports Net), 28 (WSBK [38]), 32 (Outdoor Life), 36 (MuchMusic), 40 (The Life Channel), and 48. (Lifestyle TV) Note also that several programming changes have been requested on existing transmitters here.

Construction permits granted for new stations

St	Ch	ERP	Call/HAAT	City/applicant	Latitude	Longitude
FL	59	5000	307	Stuart; Guenter Marksteiner	27-01-31	80-10-44
VA	19-			Charlottesville; Char. Broadcasting Corp.		

In Canada, an eight-channel wireless-cable system has been approved for Fort St. James, BC. All channels are 20 watts from a site 5.5km northeast of 54-26-07N/124-32-54W. The channels to be used:
 46 - Knowledge Network 50 - Discovery Channel
 52 - CBC North 54 - TSN
 60 - CKVU [10] 62 - CHAN [8]
 66 - KIRO [7] 68 - KING [5]
 If coverage proves adequate, existing stations on channels 3, 4, 5, 6, 9, 10, 11, and 13 will be deleted.

New-station applications dismissed:

FL	Stuart	ch. 59 - 2 apps	MT	Butte	ch. 24 - 2 apps
	Tallahassee	ch. 24 - 4 apps		Missoula	ch. 17 - 3 apps
ID	Sun Valley	ch. 5 - 5 apps	NM	Roswell	ch. 21 - 2 apps
MI	Marquette	ch. 19 - 1 app		Silver City	ch. 6 - 2 apps

New DTVs granted:

AZ	Flagstaff	KCFG	9->32	ND	Dickinson	KXMA	2->19
	Phoenix	KTVK	3->24		Fargo	KVLY	11->58
DE	Wilmington	WHYY	12->55		Williston	KXMD	11->14
FL	Clemont	WKCF	18->17	PA	Allentown	WLVT	39->62
ID	Lewiston	KLEW	3->32		Johnstown	WJAC	6->34
IL	Peoria	WTVP	47->46		Pittsburgh	WQED	13->38
ME	Bangor	WV7	7->14	RI	Providence	WPRI	12->13
MI	Bay City	WNEM	5->22	SD	Florence	KDLO	3->25
	Escanaba	WJMN	3->48		Lead	KIVV	5->29
	Saginaw	WEYI	25->30	TX	San Angelo	KLST	8->11
MN	Alexandria	KCCO	7->24		San Antonio	KSAT	12->48
	Duluth	WDSE	8->38	WI	Green Bay	WFRV	5->56
	Walker	KCCW	12->20		La Crosse	WKBT	8->53

Changes granted to existing stations

St	Ch	ERP	HAAT	City	Call	Latitude	Longitude
FL	44+			St. Petersburg	WTOG	27-49-46	82-15-59
IA	2z		425	Cedar Rapids	KGAN	42-17-43	91-53-11
ME	13+		462	Portland	WGME-TV	43-55-29	70-29-29

MI	64z	5000	331	Kalamazoo	WLLA		
MN	47-			Rochester	KXLT-TV	43-38-34	92-31-35
NJ	68z	2600		Newark	WHSE-TV		
NY	67z	5000		Smithtown	WHSI-TV		

The WTOG and KXLT changes are corrections to the tower coordinates - nothing has actually changed.

Changes granted to construction permits

St	Ch	ERP	HAAT	City	Call	Latitude	Longitude
AL	29-	3700	469	Selma	WBTH		
AZ	31^	1000	484	Phoenix	KSAS-DT		
CA	44+			Rancho Palos Verdes	KRPA	33-21-00	118-21-08
CA	55^	1000		Sacramento	KTXL-DT		

LPTV Displacements Granted

AL	Decatur	W66DH	22->66	MI	Ann Arbor	W27CJ	59->27
	Dothan	W23BY	41->23	MN	Granite Falls	K51FU	63->51
AR	Fort Smith	K16ER	27->16		Willmar	K30FZ	14->30
AZ	Duncan	K20GG	23->20	MO	Springfield	K41FQ	52->41
CA	Chico	KZVU-LP	21->22		St. Charles	K59GP	34->59
	Lakeport	K15FJ	60->15		St. Louis	K52GL	43->52
	Litchfield	K57HQ	11->57			K16EP	64->16
	Oroville	K41FN	18->41	NE	Columbus	K53GH	63->53
	Oxnard	K25GV	24->25	NY	Schurz	K41FS	32->41
	Visalia	K35FU	10->35	NY	Glens Falls	W65DY	4->65
CO	Estes Park	K63GM	3->63	OH	Delaware	WXCB-LP	56->42
	Holyoke	K25GZ	69->25	PR	Arecibo	W20BX	28->20
	Pueblo	KGHB-LP	27->55	SD	Edgemont	K41GF	64->41
	Sterling	K54GJ	25->54		Pringle	K51FZ	55->51
FL	Melbourne	W46DB	62->46	TX	Austin	K40FS	67->40
	Port Richey	W46BQ	46->18			K31FM	30->31
	Stuart	WTCN-LP	15->16		Corpus Christi	K41FO	22->41
ID	Grangeville	K50FY	19->50	VA	Petersburg	W18CQ	44->18
IL	Champaign	W61DL	39->61		Virginia Beach	W30BV	67->30
	Galesburg	W53CB	50->53	VT	Killington	W51DA	18->51
IN	Muncie	WMUN-LP	32->26	WA	Moses Lake	K57IB	52->57
KS	Wichita	K38GB	15->38	WV	Huntington	W64CP	17->64
		K40FR	61->40				
LA	Shreveport	KADO-LP	15->40				

LPTV Displacements Dismissed/Denied/etc.

AZ	Flagstaff	K64BI	64->50	NM	Grants	K67CR	67->33
CA	Fresno	K07UX	7->20	NV	Carlin	K60AF	60->48
	Oceanside	K60GC	60->3			K62AE	62->46
	Sacramento	K21DP	21->56	NY	Hamburg	WDTB-LP	39->20
KY	Scottsville	W48BM	48->31	TX	Brownsville	KXIV-LP	17->39
ME	York Center	W63BR	63->47	VT	St. Albans	W41CJ	52->41
MN	St. Paul	K53CH	53->19				

LPTV Displacements On The Air

AZ	Phoenix	KDRX-LP	64->48	TX	San Antonio	K33CK	33->45
NY	Buffalo	WBXZ-LP	61->56-				

Technical changes on the air

St	Ch	Call	City	What happened
CA	63+	KADY-TV	Oxnard	Increase power 1780->5000KW & tower height 549->551m.
IA	2z	KGAN	Cedar Rapids	Decrease tower height 442->425m.

ME	13+	WGME-TV	Portland	Decrease power 316=>295KW & tower height 491=>462m.
MI	29-	WGTU	Traverse City	Increase power 1000=>1175 (or 2000?)KW, tower height 396=>398 (or 399?)m.
MN	21+	KQDS-TV	Duluth	Increase power 44.7=>550KW & tower height 180=>284m.
NC	64-	WAXN	Kannapolis	Decrease power 1910=>1100KW & increase tower height 300=>352m.
NM	29+	KHPT	Hobbs	Increase power 7.94=>75.9KW. (Still a glorified LPTV!)
PA	2-	KDKA-TV	Pittsburgh	Decrease tower height 302=>295m.
TN	24z	WPTT-TV	Memphis	Increase tower height 308=>340m, move a bit northeast.
TX	13+	KERA-TV	Dallas	Increase tower height 469=>518m.
WA	9z	KCTS-TV	Seattle	Decrease tower height 252=>249m.
WA	22z	KSKN	Spokane	Increase power 214=>1860KW.

New stations on the air or requesting operating license

St	Ch	ERP	HAAT	Call	City	Latitude	Longitude
AR	49-	3020	175	KKYK-TV	Camden	33-16-19	92-42-11
AZ	51z	5000	533	KPPX	Tolleson	33-20-03	112-03-38
CA	33-	24.3		K33EG	Mammoth Lakes	37-22-32	118-23-37
CA	57z	8.2		K57HZ	Maricopa	35-07-04	119-27-33
FL	27z	5000	569	WRDQ	Orlando	28-16-44	81-01-25
ID	31-	3890	447	KFXP	Pocatello	42-55-15	112-20-44
NJ	33z	20.3		W33BT	Camden	40-04-59	75-10-56
NY	56-	13.7		WBXZ-LP	Buffalo	42-52-47	78-52-36
SC	22-	10.2		WTBD-LP	N. Charleston	32-55-42	80-06-13
TX	17-	0.13		KXIV-LP	Brownsville	25-58-59	97-30-40
TX	25z	47.2		K25FW	Corsicana	32-35-19	96-58-05
TX	46z	148		KJUM-LP	Dallas	32-45-46	96-38-04
TX	65+	2.61		KVPW-LP	Fort Worth	32-45-01	97-20-03
TX	59z	8.5		K59GC	Plainview	34-13-05	101-42-02
TX	6z	0.04		KRGT-LP	Rio Grande C.	26-24-22	98-55-02
TX	55z	8.2		K55IF	Seminole	32-43-29	102-38-00
TX	7-	0.10		KXHB-LP	Uvalde	29-12-25	99-47-55
VA	39+	50		W39BW	Newport News	36-51-40	76-21-12
VT	61z	10		W61CE	Rutland	43-39-32	73-06-25

The wireless-cable system at Black Creek, BC has been deleted. These are CH4108-CH4112 [14, 24, 32, 60, and 67] and CH2913-CH2922. [16, 26, 28, 30, 34, 38, 40, 46, 56, and 62].

New DTVs on the air:

CA	San Francisco	KBWB-DT	19	MD	Baltimore	WNUV-DT	40
CT	Hartford	WFSB-DT	33	NV	Las Vegas	KLAS-DT	7
FL	Tampa	WTVT-DT	12	PA	Philadelphia	WPVI-DT	64
MD	Annapolis	WMPT-DT	42				

Call changes

FL	Tallahassee; W45BU =>WVUP-LP	OK	Okla. City; K17EX =>KLHO-LP
LA	Paducah; W52DC =>WQWQ-LP		Tulsa; K29DZ =>KTZT-LP
LA	Winnfield; K04OR =>KCDH-LP	SD	Rapid City; new =>KNBN [24]
NJ	Atlantic City; WACI =>WPHA [62]	TX	Beaumont; K25GP =>KJDF-LP
NM	Clovis; K53FU =>KWDX-LP		Brownsville; K17EK =>KXIV-LP

TX Carizo Sprs.; K11UG =>KSPG-LP
Corpus Christi; K12PH =>KWDT-LP
Eagle Pass; K03HH =>KEAP-LP
Rio Grande C.; K06MY =>KRGT-LP

TX Uvalde; K07WU =>KNHB-LP

Programming changes

Call	Location	Programming
CH2520 [30]; CH4697 [42]; CH4699 [58]; CH4700 [62]; CH4701 [66]; CH2515 [13]; & CH3083 [34]	Logan Lake, BC	to WTBS [17], KING [5], WUHF [31], Discovery Channel, TLC, KIRO [7], and CMT respectively.
WNTD [26]	Daytona Bch., FL	to be Univision?
WRDQ [27]	Orlando, FL	new, independent.
WBPX [68]; WDPX [58]; & WFXG [21]	Boston, MA; Vineyard Haven; & Concord, NH	All parallel with Pax. Also carry NBC Evening News at 7:00 Eastern time.
WPXB [60]	Merrimack, NH	Infomercials & religion.
WYCN-LP [13] & W33AK	Nashua, NH (both)	"Yankee Cable Network", general independent.
WOLE [12]	Aguadilla, PR	Telemundo.
WPRV [13]	Fajardo, PR	Belongs to Catholic Church.
WSUR [9]	Ponce, PR	co-owned with WLII [11] Caguas.
WTIN [14]	Ponce, PR	relays WAPA [4] San Juan.
KNBN [24]	Rapid City, SD	to be NBC when built.
K59GC	Plainview, TX	new, relays KJTV [34], Fox.
K55IF	Seminole, TX	new, relays KJTV [34], Fox.
K28DV	Evanston, WY	to KUWB [30], WB.

An eighth Logan Lake, BC station is supposedly switching from "Channel 59" to "Channel 24". I presume this refers to a local-origination station switching channels, but I don't list any Logan Lake stations on either channel.

Forum & Other Stuff

Thanks to Chip Kelley, John Bolduc, Luis Franceschi, Pat Dyer, Dave Nieman, Fernando Garcia, Tom Yingling, and Mike Bugaj for material appearing elsewhere in this column.

I realize there have been no recent applications for channel 19 in Charlottesville, Virginia. There had been two applications pending for channel 64. The two applicants merged, but by the time they could ask for a construction permit, DTV had come along. They were too late to be guaranteed a second channel for DTV - but channel 64 was to be deleted at the end of the digital phase-in - so the merged applicant had won a permit that would become useless by 2006.

They convinced the FCC to issue a construction permit for channel 64, and immediately amend it to specify operation on channel 19. The channel can be allocated to Charlottesville without interfering with anybody, though it will limit the ability of WGNT-DT [19] Portsmouth to expand its coverage. For that reason, WGNT had objected to the move. Also objecting was PBS affiliate WVPT [51] Staunton, which has a channel 19 translator in Charlottesville. The latter argument didn't go very far; full-license WHTJ [41] Charlottesville is also a PBS affiliate & its programming in large part duplicates WVPT's...

Tom Yingling has joined the group of DXers with DTV capabilities. WNUV-DT [40] was seen testing, no lds, with a tape loop of Chevy cars. WMPT-DT [42] was also testing with a tape loop. Theirs had lds, but they were for WITF-TV [33] Harrisburg, PA!

Pat Dyer saw KBEJ [2] testing the day after his VUD arrived. However, they didn't stay on long. He's heard second-hand reports that the station was having "blanketing" problems with a nearby cable system. New broadcast stations (AM, FM, or TV) are required to correct any interference generated to receivers located very close to their towers.

FM NEWS

JUNE 2000

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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



UNITED STATES

ALABAMA:
 Atmore: WYDH 105.9 FC to mainstream country
 Birmingham: WYSF 94.5 XG: 33-27-43 / 86-51-00
 Dora: WQOP 92.5 CC (ex WZJT) "Queen of Peace"
 Florence: WYFL 96.1 PC> 50 kW, class C2, 492'
 Greenville: WROQ 95.9 PG< 2.1 kW, 561 ft, DA, XG: 31-56-52 / 86-42-09
 Tuscaloosa: WTUG 92.9 adds Tom Joyner

ARIZONA:
 Arizona City: KBZR 106.5 PG> 8.6 kW, 551 ft, XG: 32-59-46 / 111-45-28, class A to class C3
 Payson: KAZL 101.1 PG< 57 kW, 1237 ft, XG: 34-25-48 / 111-30-16
 Payson: KAJM 104.3 PG< 86 kW, 1237 ft, XG: 34-25-48 / 111-30-16
 Tuba City: KAXB 97.9 PG> 90 kW, 1017 ft.
 Yuma: KYRM 91.9 LC

ARKANSAS:
 Ashdown: KMJI 93.3 XC: 33-30-24 / 94-12-25
 E. Camden: KCXY 95.3 PC> 100 kW, 456' XG: 33-30-14 / 92-48-38
 England: KHTE 96.5 CC (ex KLEC), FC to dance-CHR (Little Rock) "Hot 96.5"
 Fayetteville: KXUA 88.3 NW, alternative
 Fort Smith: KAOW 88.9 PG> 1.5 kW
 Lonoke: KLEC 106.3 CC (ex KHTE), FC to modern rock (Little Rock) "Lick 106.3"
 Mtn Home: KPFM 105.5 PG< 19 kW, 797 ft. XG: 36-29-13 / 92-29-39
 Paragould: KDRS 107.1 PC> 3 kW, 423 ft. XG: 36-01-46 / 90-35-50
 Prairie Grove: KDAB 94.9 FC to soft AC "Sunny 95"
 Texarkana: KQDX 107.1 CC (ex KTWN), FC to hot ac "Mix 107"

CALIFORNIA:
 Beaumont: KAEB 100.9 PC> 1.5 kW, 479 ft, XG: 33-54-29 / 116-59-45
 Corcoran: KXQX 102.3 CC (ex KLCZ), FC to Norteno "Radio Cañon" // KQEQ 1210
 Hanford: KMPH 107.5 PG> 24.6 kW, 705 ft.
 Lompoc: KAOK 105.1 PG> 4.1 kW, 823 ft, XG: 34-31-49 / 120-21-08
 Los Angeles: KJUSC 91.5 PC> 39 kW, 2922 ft, DA, XG: 34-12-48 / 118-03-41
 Los Angeles: KZLA 93.9 PC< 18.5 kW, 3001', DA
 Ludlow: KHVZ 100.1 LC
 Merced: KIBG 106.3 XG: 37-25-35 / 120-26-25
 Needles: KLUK 97.9 CC (ex KNKK), FC to classic rock "Lucky 98"
 Placerville: KZSA 92.1 PC> 1850w, 417 ft.
 Quartz Hill: K216FA 91.1 NS-10w(v), DA: KAWZ-ID

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California:
 Red Bluff: KEGR 102.7 reported SI
 Sebastopol: KJZY 93.7 PC> 6 kW, 216 ft, XG: 38-25-07 / 122-40-33
 Shasta Lake City: KISK 107.1 PC> 1.4 kW, 1361'
 Soledad: KHNZ 106.3 CC (ex KLUE) "Hot New Z"
 S. Oroville: KYIX 104.9 adds WAY c. Christian (&)
 Tahoe City: KLCA 96.5 adds Bob & Sheri
 Truckee: *NS 101.5 140w, 1986 ft.
 Weed: KWHO102.3 PC> 15.5 kW, 1942 ft, XG: 41-21-30 / 122-12-21

COLORADO:
 Lakewood: KQKS 107.5 PC< 91 kW
 Telluride: KRYD 104.9 RA with Radio one country (&), PC> 25.5 kW, 1643 ft.

DELAWARE:
 Bethany Bch: WJYN 103.5 adds Bob & Sheri
 Laurel: WJNE 95.3 adds Bob & Sheri
 Wilmington: WSTW 93.7 PC< 47 kW, 502 ft.

FLORIDA:
 Ft. Myers Bch: WJBX 99.3 PC< 45 kW, 472 ft, XG: 26-29-16 / 81-55-46
 Fort Myers Villas: WJST 106.3 PG> 50 kW, 472 ft, XG: 26-29-16 / 81-55-46, class C2
 Gulf Breeze: WRRX 106.1 CC (ex WZRO) "Rock 106"

Homosassa Sps: WXCX 95.3 adds Bob & Sheri
 Inglis: WHGN 104.3 PG< 4.4 kW, 380ft XG: 29-01-18 / 82-41-20
 Madison: WMMV 102.7 PG> 15 kW, class C3, 328 ft, XG: 30-33-28 / 83-20-06
 Marathon: WWWW 97.7 LC
 Port Charlotte: WOST 100.1 FC to CHR
 Stuart: WWFR 91.7 PC< 2650w, 499 ft, DA, XG: 27-07-14 / 80-23-59, CL from Okeechobee
 W. Palm Beach: WRLX 92.1 adds Doug Banks

GEORGIA:
 Atlanta: WPCH 94.9 dec. to class C1, 977', XG: 33-48-27 / 84-20-27
 Canton: WGST 105.7 PC< 16.5 kW, 827 ft, XG: 34-03-55 / 84-27-14
 Claxton: WCLA 107.3 FC to ABC oldies (&)
 Griffin: WMMV 90.7 PG> 18.5 kW, 492 ft, DA, class C2, XG: 33-23-58 / 84-06-24
 Jesup: WTLN 90.5 inc. to 171 ft.
 LaGrange: W212BL 90.3 NS-10w: WJFM-OH

HAWAII:
 Hilo: KWXX 94.7 PC> 51 kW
 Waimea: KAGB 99.1 NW, Hawaiian // KAPA



IDAHO:
 Boise: KBSU 90.3 PG< 17.5 kW, 2683 ft XG: 43-45-18 / 116-05-52
 Boise: KBSX 91.5 PG< 3.7 kW, 2713 ft XG: 43-45-21 / 116-05-54
 Nampa: KFXJ 94.9 SG "The River, World Class Rock" (Boise)

Idaho:
 Rexburg: KADQ 94.3 PC> 45 kW, 522 ft, C2
 Twin Falls: KEZJ 95.7 dec. to 487 ft, XC: 42-43-42 / 114-24-48

ILLINOIS:
 Arlington Hts: WKIE 92.7 PC< 1.8 kW, 380 ft.
 Carterville: WXLN 95.1 PG> 6 kW
 Carthage: WQKQ 92.1 CC (ex WNKK) "KQ92"
 Chicago: WUBT 103.5 PG< 4.3 kW, 1548 ft.
 Chicago: WFMT 98.7 PG< 6 kW, 1542 ft, XG: 41-52-44 / 87-38-10

Coal City: WBVS 100.7 PC> 2450w, 482 ft.
 Crest Hill: WCCQ 98.3 inc. to 469', XC: 41-26-09 / 88-11-04
 Morton: WFXF 102.3 FC to rock "Extreme Radio", retains Stern (Peoria)
 Pontiac: WJEZ 93.7 FC to oldies "Cool" (&)
 Rockton: WGBF 103.1 CC (ex WRWC), FC to AC "B103" (Rockford), carries Delilah
 Vandalia: *NS 91.7 100w, 164 ft.

INDIANA:
 Columbus: WWWY 104.9 FC to WW1 a/c (&)
 Newburgh: WDKS 106.1 FC to CHR (Evansville)
 Tell City: WTCJ 105.7 NW, CHR

IOWA:
 Atlantic: KSWI 95.7 CC (NS)
 Clear Lake: KLKK 103.7 QC from 103.1, class C3, 25 kW, 253 ft, XC: 43-03-35 / 93-22-47
 Des Moines: KIOA 93.3 PC< 82 kW, 1066 ft, XG: 41-37-55 / 93-27-26
 Independence: KQMG 95.3 FC to WW1 soft AC (&)
 Pleasant Hill: K214DQ 90.7 NS-62w: KLOV-FM

KANSAS:
 Goodland: KKCI 102.5 dec. to 708', XC: 39-23-24 / 101-33-35
 Independence: KBQC 88.5 PG> 13 kW, 476 ft.
 Topeka: KMAJ 107.7 PG< 92 kW, 1004 ft, class C1, XG: 39-08-53 / 95-12-49
 Winfield: KBDD 91.9 NW, AFA cont. Christian (&), PC> 48 kW, 492', XG: 37-22-56 / 96-57-20

KENTUCKY:
 Barbourville: WYWY 96.1 FC to WW1 a/c (&)
 Berea: WLFX 106.7 PC< 3.3 kW, 453 ft, XG: 37-39-40 / 84-08-55
 Drakesboro: WNTC 103.9 FC to WW1 rhythmic oldies (&)
 Greenup: WLGC 105.7 PC> 12.5 kW, 466 ft.

LOUISIANA:
 DeRidder: KEAZ 101.7 QG to 97.9 - C2, PG> 50 kW, 492', XG: 30-36-57 / 93-13-31
 Lacombe: WYLA 94.7 PG< 3 kW, 472 ft, DA, XG: 30-18-42 / 89-54-54
 Reserve: WADU 94.9 PG> 14 kW, 440 ft, DA, XG: 30-02-56 / 90-28-28
 Springhill: KTKC 92.9 QC from 92.7, PC> 40 kW, now C2, 548'

MASSACHUSETTS:
 Brookline: WBOS 92.9 PC> 18.5 kW, 734 ft, XG: 42-20-50 / 71-04-59
 Northampton: WHMP 99.3 PC< 5.8 kW, 381'
 Tisbury: WMVY 92.7 inc. to 315', XC: 41-26-16 / 70-36-51



Massachusetts:

Worcester: WBPR 91.9 PG< 760w, 305 ft, XG: 42-15-15 / 71-57-36

MICHIGAN:

Charlevoix: WCZW 107.9 CC (NS)
Gaylord: WPHN 90.5 PC< 390w, 1273 ft, XG: 43-44-17 / 71-47-30
Standish: WSTD 96.9 SI (will be donated to Central Michigan U)

MINNESOTA:

Alexandria: KXRZ 99.3 CC (ex KSTQ), FC to modern AC "Z99"
Alexandria: K219FA 91.7 NS-50w: WJFM-OH
Bernidji: K213DJ 90.5 NS-50w: WJFM-OH
Mankato: KEEZ 99.1 PG< 99 kW, 981 ft, XG: 44-03-06 / 94-17-47
Two Harbors: KZIO 104.3 FC to classic hits

MISSISSIPPI:

Bude: WMAU 88.9 XG: 31-22-22 / 90-45-04
Indianola: WTCD 96.9 FC to talk // WFMN "Super Talk Mississippi", adds Don Imus (Greenville)
Ocean Sp: WQYZ 92.5 PC> 321w, XG: 30-27-09 / 88-51-21
Petal: WMFM 106.3 FC to rock "Fox 106"
Tupelo: WAQB 91.7 PG> 23 kW, class C2, 505', DA, XG: 33-55-35 / 88-39-48
Water Valley: WTNM 105.5 FC to talk // WFMN, adds Don Imus, inc. to 328', XG: 34-12-45 / 89-44-49, CC (ex WLPX)

MISSOURI:

Kirksville: K201GD 88.1 NS-27w: WJFM-OH
St. Joseph: KKJO 105.5 QC from 105.1, inc. to 981', XG: 39-42-36 / 95-02-36
W.Plains: *NS 90.9 350w(v)

MONTANA:

Belgrade: KCMH 99.1 CC (NS)
Bozeman: *NS 103.5 100 kW, 299 ft.
Hamilton: KBMG 95.9 PC> 85 kW, 2066 ft, class C, XG: 46-48-08 / 113-58-21
Pryor: KPGB 89.3 CC (NS)
Ronan: KQRK 92.3 FC to hot AC "Super Q" (&)



NEBRASKA:

Beatrice: KZ05DU 88.9 NW-50w: WJFM-OH

NEVADA:

Laughlin: KVGS 107.9 CC (ex KLKUK), SI, OSA to class C, 46 kW, 825', XG: 35-39-03 / 114-18-44
Spring Valley: K206CP 89.1 NS-41w: KSKD-FM
Sun Valley: KATG 93.7 NW, rhythmic oldies (Reno)

NEW HAMPSHIRE:

Wolfeboro: WLKZ 104.9 inc. to 1056', XG: 43-32-46 / 712-22-42

NEW JERSEY:

Cape May CH: WGBZ 105.5 adds Bob & Sheri
Glassboro: WGLS 89.7 PG> 750w, 489', XG: 39-41-41 / 75-17-55
Pleasantville: WZBZ 99.3 adds Bob & Sheri

NEW MEXICO:

Cloudcroft: KTMN 97.9 PG< 6 kW, 2978 ft, XG: 33-24-51 / 105-46-55
Fruitland: KTGW 91.7 NW, religion
Hobbs: KPER 95.7 inc. to 266', XG: 32-43-30 / 103-09-07



NEW YORK:

Alfred: WZKZ 101.9 PC< 1 kW, 800 ft.
Buffalo: WTSS 102.5 CC (ex WMJQ), FC to hot AC "Star 102.5"
Port Henry: WCCQ 92.1 CC (ex WXNT)
Poughkeepsie: WRNQ 92.1 PC< 520w, 1040 ft, DA, XG: 41-43-09 / 73-59-47
Utica: WRVN 91.9 PC< 1850w, -95 ft.
Warsaw: WCOU 88.3 PC< 4 kW, 535', DA

NORTH CAROLINA:

Manteo: WOBX 98.1 CC (ex WBGI)
New Bern: *NS 88.5 300w, 121 ft, DA
Rockingham: W202BR 88.3 NS-10w: WJFM-OH
Washington: WERO 93.3 FC to CHR (New Bern)

NORTH DAKOTA:

Minot: KHRT 106.9 PC> 26 kW, 344 ft.

OHIO:

Cedarville: WCDR 90.3 XG: 39-45-46 / 83-52-59
Chillicothe: WKKJ 93.3 PG< 43 kW, 531 ft, DA, XG: 39-37-17 / 82-53-17
Harrison: WNLT 104.3 PC> 5.2 kW, XG: 39-13-34 / 84-42-59
Kent: WNIR 100.1 PC> 4.2 kW, 394 ft.
McConnelsville: WJAW 100.9 FC to ESPN Sports (&) (Parkersburg)
Portsmouth: WNPW 107.5 CC (NS)

OKLAHOMA:

Clinton: KCLI 106.9 QG to 106.7 - C2, PG< 13 kW, 964', DA, XG: 35-36-49 / 97-52-19, CL: Okarche, OK
Muskegee: KMMY 97.1 dec. to 1246 ft.
Oklahoma City: KTST 101.9 PC< 94 kW, 1220 ft, XG: 35-35-52 / 97-29-22
Oklahoma City: KJYO 102.7 PC< 94 kW, 1220 ft, XG: 35-35-52 / 97-29-22
Oklahoma City: dec. to 1220', XG: 35-35-52 / 97-29-22

OREGON:

Astoria: KAST 92.9 adds Delilah
Bend: KCIE 100.7 FC to soft AC
Bend: KXIX 94.1 FC to rock
Bend: KQAK 105.7 XG: 44-04-40 / 121-19-49

Oregon:

Newport: KLCO 90.5 PC< 3 kW, 321 ft, XG: 44-45-24 / 124-02-50
Newport: *NS 91.3 200w, 440', DA
Newport: KNUU 92.7 CC (ex KBGX), NW, WW1 country (&)
Seaside: KULU 102.3 FC to classic rock

PENNSYLVANIA:

Franklin: W212BK 90.3 NS-10w: WJFM-OH
Mansfield: W218BN 91.5 NS-10w: WJFM-OH
Mifflintown: WQJU 107.1 PG< 370w, 1302 ft, XG: 40-34-20 / 77-30-51
Olyphant: WXAR 95.7 PC> 600w, ND
Pen Argyl: WWPJ 89.5 CC (NS)
Wellsburg: W219CO 91.7 NS-10w: WJFM-OH

SOUTH CAROLINA:

Andrews: W204BQ 88.7 NS-55w: WJFM-OH
Manning: W204BR 88.7 NS-50w: WJFM-OH

SOUTH DAKOTA:

Belle Fourche: KZZI 95.9 inc. to 1788', XG: 44-19-35 / 103-50-06
Flandreau: KSQB 107.9 PG> 21 kW, 760 ft, XG: 43-57-58 / 96-49-11
Mitchell: KQRN 107.3 FC to hot AC "The Q" (&)
Rapid City: KOUT 98.7 inc. to 462 ft.
Sioux Falls: KKLS104.7 inc. to 974', XG: 43-43-46 / 97-05-14

TENNESSEE:

Chattanooga: WDOD 96.5 adds Bob & Sheri
Daisy: W215BH 90.9 NS-10w: WAYM
Kingston: *NS 90.1 55w(v), 567 ft.
McKenzie: *NS 89.3 1 kW, 328 ft.
Memphis: WKNO 91.1 inc. to 574', XG: 35-09-14 / 89-49-19
Norris: WXVO 106.7 FC to modern rock (Knoxville)
Tullahoma: *NS 91.5 1,550 w, 269 ft, DA, Nashville Public Radio

TEXAS:

Bastrop: KYCM 88.5 RA with EWTN Religion (&)
Beaumont: KXTJ 107.9 adds JRN regional Mexican (&)
Columbus: K216FD 91.1 NS-20w: WJFM-OH
Dallas: KVTT 91.7
Eastland: KATX 97.7 CC (ex KEAS)
Georgetown: KAHK 107.7 PC> 25 kW, 328', DA
Harker Hts: KUSJ 105.5 CC (ex KYUL) "US 105"
Laredo: KBNL 89.9 inc. to 604 ft, XG: 27-39-27 / 99-35-10
Marble Falls: KBAE 104.9 PC> 9.5 kW, 804', XG: 30-26-34 / 98-14-48
Palestine: K216FC 91.1 NS-10w: WJFM-OH
Pittsburg: KSCN 96.9 OSA to C3, 25 kW, 328 ft
Rudolph: KTER 90.7 PC 2.4 kW, 282 ft
Silsbee: KLOI 101.7 PG> 11 kW, 472 ft, XG: 30-24-05 / 94-03-21, C3
Tatum: KDVE 100.3 CL from Henderson, TX, PC< 2350w, 535 ft.
Waco: KWBU 107.1 to add NPR days 5am to 8pm starting July 1st
Wake Village: KHTA 92.5 LC
Wichita Falls: K211ED 90.1 NS-250w: KLOV-FM

VERMONT:

Putney: WCKP 91.9 CC (NS)

VIRGINIA:

Danville: WOKD 91.1 NW, cont. Christian // WPAR

WASHINGTON:

Cle Elum: KXAA 93.7 CC (NS)
Naches: KREW 99.3 LC
Pasco: KGDN 101.3 PC< 2750w, 1001 ft.
Seattle: KMPS 94.1 PG> 69 kW, 2346 ft, XG: 47-30-17 / 121-58-04
Spokane: KSFC 91.9 PG> 3.2 kW, class C2, 1644', DA, XG: 47-34-34 / 117-17-58
Tacoma: KBKS 106.1 PG> 69 kW, 2346', XG: 47-30-17 / 121-58-04
Yakima: K210CX 89.9 NS NS-10w: KLOV-FM

WEST VIRGINIA:

Bluefield: WHAJ 104.5 inc. to 1548', XG: 37-15-05 / 81-11-20 (xmtr is in VA)



WISCONSIN:

Milwaukee: WLZR 102.9 dec 426', XG: 43-02-49 / 87-58-52
Sturgeon Bay: WSRG 97.7 dec. to 420 ft.

WYOMING:

Douglas: KDUW 91.7 NW, info/alt/class // KUWR
Evanston: K204EA88.7 NS-10w: WJFM-OH

PUERTO RICO:

Caguas: WVJP 103.3 FC to tropical // WGIN



CANADA

ALBERTA:

Banff: *NS 93.3 92w app to be // CKRY 105.1 Calgary
Red Deer: *NS 93.1 50w app, / CHIM-FM
Suffield: *NS 104.1 1067w, to serve British military personnel stationed here (50 hrs/week of CHR, the rest is SSVIC (British AFRTS) and BBC programming)

BRITISH COLUMBIA:

Kelowna: *NS 89.7 6 kW, app, CBC Radio 2
Logan Lake: *NS relays applied for, all 22.9w: CBC Radio 1 (89.3), CISM-FM (91.1), CKIS-FM (94.9), CHFI-FM (99.1) CBU-AM (106.7)
Nelson: *NS 93.5 70w, app, variety format
Whistler: *NS 90.7 50w app // CFMI-FM

MANITOBA:

Sheridon: *NS 93.5 23.1w app // CINC-FM
The Pas: *NS 96.1 42w "Type B Native Stn"
Water Hollow Res: *NS 93.5 23w, // CINC-FM

NEW BRUNSWICK:

Campbellton: *NS 88.9 10 kW, // CBAL-FM (French Radio 2)
 Fredericton: *NS 104.5 50w app, religion
 Fredericton: CHKJ 105.3 wants PG< 78 kW to reflect "as built parameters"
 Grand Falls: CJEM 95.1 975w, will replace CKMV-AM
 St. John: *NS 96.1 50w religious stn in EE, (2.5hrs a week in FF)

NEWFOUNDLAND:

Clarenville: *NS 93.7 11.6 kW, // CBN-640 (CBC Radio One)
 Grand Falls: *NS 90.7 57 kW app // CBN-FM (CBC Radio 2)

NORTHWEST TERRITORIES:

Yellowknife: *NS 93.3 164w, "French Type A Community Station"

NOVA SCOTIA:

Cole Harbour: *NS 106.9 45w community stn
 Halifax: CKDU 97.5 QG to 88.1, PG> 520w
 Port Hawkesbury: CIGO 101.5 QC from 1410, now 19 kW



ONTARIO:

Barrie: *NS 107.5 26 kW, to be CHR (same group owned by CFJB 95.7)
 Belleville: *NS 100.1 40 kW, to be country (group that owns CJOJ 95.5)
 Chatham: CFCO 630 wants 92.9, 50w to be // AM (not replacing AM)
 Hamilton: *NS 94.7 1880w, to be smooth jazz (group owned by CHAM 820)
 Hamilton: CFMU 93.3 wants to move to CIOI xmtf site, PG< 166w
 Kamisiquoi: *NS104.5 50w app for "Pop, Rock and Dance" format
 Kapuskasing: *NS 94.1 50w app for "Pop, rock and dance" station
 North Bay: *NS 92.5 50w app // CHIM-FM
 Iroquois Falls: CJWL 104.9 QG to 101.1 (because of QRM from CBOB-FM21)
 Red Lake: *NS 95.1 50 w app "Pop Rock & Dance"
 Smooth Rock: *NS 94.7 250w, to be // CKGN-FM
 Sudbury: *NS 102.9 33w, to be TIS
 Timmins: *NS 101.5 32w, to be TIS
 Timmins: *NS 95.1 50w app "Pop Rock & Dance"
 Toronto: CIRV 88.9 PG> 1.8 kW

QUÉBEC:

Disraeli: CKLD 107.1 57.2w, to replace CJLP-AM
 Katinniq: *NS 88.5 100w app // CITE-FM
 Lac Simon: CHUT 95.3 PG> 102 w
 Matane: CHRM 1290 QG to 105.3 - 30 kW
 Rimouski: CFLP 1000 QG to 102.9, 33.6 kW, ad/con format
 Windsor: *NS 92.9 25w, French community stat. Applied for.

SASKATCHEWAN:

Cypress Hills Park: *NS 103.7 new 47w TIS app
 Jct Route 21/Trans Canada Highway: *NS 103.5 39w TIS app (that's the city of license!)
 N.Battleford: *NS 97.9 100 kW, contemporary mx
 Prince Albert: *NS 101.5 100 kW, country mx



MEXICO

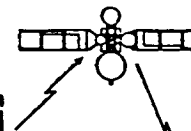
CHIHUAHUA:

Cd. Juarez: XHEPR 99.1 FC to classic rock "The Bandit" (El Paso, TX)

LPFM UPDATE: Several key House leaders have asked the FCC to suspend any work on the LPFM proposal since they claim they have a "veto-proof" majority on H.R. 3439, which nixed the FCC's LPFM ruling. These Representatives, including Mike Oxley, have urged the FCC to at least agree to restrict 3rd channel adjacents for existing stations. No word yet from Senator John McCain, who will determine LPFM's fate in the Senate

• **SHREVEPORT, LA:** Another parody of "Who Wants To Be A Millionaire" gets a station in trouble, this time KITT 93.7 "Cat Country". The station claims that winner John Richard McRae was told that the prize was One-million Turkish lira (about \$1.90 US). They also contend that he should have known the whole thing was a joke when earlier prizes were not very large sums of money, but rather hamburgers, CDs, movie passes, etc. The FCC disagreed, however, and fined Clear Channel \$4,000 for the stunt.

• In addition to *M Street Journal* thanks this month to Doug Smith, Bill Dvorak, and Frank Aden for contributions!



GEORGE W. JENSEN
 4604 ANNTANA AVE
 BALTIMORE MD 21206-4220

SATELLITE NEWS

The new Galaxy 4R has been launched and will locate at 99 W replacing the new Galaxy 11 which is currently located in that spot. Those services - like HITS will remain at this location even though they are currently locating from G-7 Ku to the G-11 Ku. This bird will have 24 C and 24 Ku Transponders both with high powers.

I believe it is safe to say that all of the HITS services from G7 are now fully located at whatever bird is located at 99 west.

- Now to changes -
- Satcom C4 - 2 - now Americas Voice from GE 1
- Galaxy 1
- 158 - StarzCinema - East
- 159 - Starz Cinema - West
- satcom C3 -
- 760 - Discovery Health - now Color Bars - was Knowledge
- 761 - infomercials - now color bars
- Galaxy 5 - delete 21 - Discovery Health which was Knowledge
- Galaxy 10 - add - 849 - Holidays and Happenings
- Solidaridad 1 - delete the Edusat Services which were digicipher 2 - 4DTV on XPRD 24
- GE Americom GE1 - delete Americas Voice to Satcom 4 - XPDR 2
- Galaxy 11/Galaxy 4 -
- KuBand first - TCI Headend In The Sky (HITS) ALL now here from Galaxy 7 Ku-Band along with FTA (Free To ALL services. C-Band MPEG2 services
- transponder 2 - CCTV 4, 3 and 9 in PAL Color
- 2 CCTV color bars - not noted lately
- 4 - XEUPN - Ch 41 - Tijuana, BC Mexico UPN network
- 10 - EWTN International feeds
- 13 - WMNB - Russian American Television
- Sony Entertainment Asia
- Orbit A1
- Egyptian Satellite Channel 1
- Antenna satellite Greece
- Nile Drama - Arabic
- others

- Galaxy 3
- delete - TVN feeds on XPDR 2, 3, 4, 5, 6 - Guthy-Renker on 7 and the adult service on 9
- 23 - delete 3ABN - Three Angels - 7th Day Adventists - may have gone to MPEG2
- Galaxy 7 - Ku - NOT NOTED on 26 - National Weather Network changes in DMX Music services moving to G-11 -
- 820 - Listening Room from Lite Classical
- 826 - Light Classics from Contemporary Christian
- 829 - Urban Beat - from R&B Rap Hits
- 838 - Contemporary Christian from Trends
- 846 - Retro Dance from World Beat851 - Holidays and Happenings
- 855 - Trends
- 856 - Symphonic
- 861 - Fiesta
- 862 - Rock en Espanol
- 863 - Latin Jazz
- 864 - Regional Mexican
- 865 - Tejano
- 866 - Salsa
- 867 - Musica de las Americas
- PanAmSat 5 -
- 709 - un ID'D
- 710 - color bars - radio OFF
- 711 - Color Bars - Radio OFF

...continued on page 33

Bob's Teck Notes

It's deja- vu all over again as we present questions and answers from Bob's famous 70s columns. Some questions never change, and here are four of them.

CATV RADIATION

I live in a town with a CATV system. In certain directions with my rooftop antenna I pick up the cable signals even though I am not hooked to the cable. Is there any cure?

YES there certainly is! Cable or...CATV systems are required by FCC Rules and Regulations to limit their cable radiation to levels which if maintained cannot be picked up by roof-top antennas. In other words you should be able to DX or watch fringe area TV on your rooftop antenna and not even know the CATV system is operating. Most cable radiation occurs because of improperly tightened or prepared cable fittings (at splices, in and out of line amplifier boxes, etc.), improper or non-existent grounding of the messenger wire that supports the actual cable (coupled with the cable itself being "hot" or a house cable "drop" having been dis-connected at the set but not at the line; in which case the un-terminated house drop simply radiates signal in the immediate neighborhood. Another not so common cause is some cable viewer hooking both his antenna lead in and his cable drop to his set antenna's terminals simultaneously; in which case the cable signals feed into his receiver..AND into his antenna, and the antenna re-radiates the cable signals into the area.

To set the matter straight, contact the cable company first and provide them with a map of your own making showing the directions you receive the radiation and if possible, triangulate the radiation with some other antenna user to pinpoint the exact region it seems to be coming from. Tell the cable company engineer or technician that you know the problem can be solved, and that if it is not in say a week, you are going to file a formal complaint with the regional FCC office. If it comes to that, do file a complaint with the regional FCC outlet and include all pertinent information, including a map of where you believe the radiation is coming from, the date you reported same to the CATV company, who you talked to at the CATV company, what you were told and what was not done about the situation. Eventually you will get results.

ANTENNA HEIGHT

I live in a typical suburb and am debating about either raising my present antennas to 50 feet or buying a new larger antenna and keeping it at 50 feet. What do you think?

Let's cite a few examples. I also live typical suburb. The land is more or less flat, with gentle rolling hills. The lowest point within the city to the highest spot (elevation) varies less than 125 feet, so the only major obstructions are man made and vegetation; power lines, buildings and trees. Last year, living a couple of miles away from my present location, I had my FM antennas at 55 feet. Stations 275-325 miles away were ALWAYS solid copy. This year, because of a smaller lot and no room for more than one tower, I am stuck with a rooftop short tower on FM, placing the antenna array center at about 25 feet. This year I hear the same stations (275-325 miles) only about ten percent of the time; Same receiver, same equipment, same antenna system. And same elevation above sea level. Only my height above ground has changed. In terms of engineering numbers, you are in real trouble for signals beyond 125 miles when you are BELOW the high signal absorption levels of 40 feet and down. Block after block of houses, power lines and trees take a heavy toll in weak signal strength, and the ONLY way to combat it is to rise above this ground crud level stuff and get into the relatively un-signal-polluted levels of 50 feet and more. It's just like being buried in a low lying fog bank - when you climb above the crud level, the sky is clear and the air is warm. So by all means increase your antenna height first - then put up the bigger antenna!

CO-CHANNEL INTERFERENCE

Many nights I leave my receiver running on channel 2 which has a 80 mile distant station on it; naturally I am keeping an eye peeled for Es. I notice many, many meteor bursts (evidenced by sudden bursts of co-channel) that seldom if ever rise above the 80 mile distant channel two signal level. If nighttime is supposed to be generally a poor time for meteors, why do I see more CCI indicated meteor bursts during this period then when I get up early in the morning and my 80 mile channel two is not on the air yet?

An 80 mile distant signal probably runs around 100 microvolts, or in db talk, minus 20 db(mv) (with 0 dbmv equal to 1,000 microvolts). Tests have proven that we can detect the presence of co channel lines when the interfering signal is 40 db weaker than the primary, stronger signal. So if your channel two signal is averaging minus 20 dbmv (100 microvolts), a signal 40 db weaker than this would be minus 60 dbmv, Or 1 microvolt. Unfortunately a TV receiver will seldom show even a frame bar or a hint of sound for a signal much weaker than minus 40 dbmv (10 microvolts). So many of the meteor bursts you are seeing are strong enough to show up as CCI, but not strong enough to show up as a signal on their own when they are all alone on the channel. This may be difficult to understand without some engineering or technical background, but the simple fact is that CCI can be present when you have a signal for it to show up against, but the CCI causing signal may not even be detectable when it stands alone.

HIGH BAND Es

I've read that the best time to look for high band E skip on channels 7 and 8 is when there is a strong Es opening on channels 2ù6, and FM Es signals are also pouring thru. Is this true?

No, not necessarily so. During the past twenty years or so of semi and organized TV DXing, there have been approximately 20 authenticated reports of E skip occurring in the high band channel region. Most of these have been on channel 7, and cover such paths as Cuba/Mexico City/Florida to Texas, the mid-Atlantic coastal states to the mid west and the mid south to the southwest. Few if any have, been, reported north of a line stretching rather arbitrarily from San Francisco to Washington, D.C. The extremely dense portion of an Es cloud (ie. that highly concentrated "core region" that is sufficiently strong or intense to reflect/refract signals above 120 MHz), if it exists at all, is usually very small, and short lived. It is possible and in fact probable that this dense portion of the cloud could be located in a portion of the much larger general Es cloud so that you would be receiving only very poor or marginal low band TV and/or FM signals at your location at a moment when a high band Es station is rolling thru. It appears that there is MORE high band Es, by a wide margin, than we catch. And I believe that DXer habits (tuning channels 2,3,4,5 and 6 and stopping are more to blame for the lack of high band Es reports than the shortage of propagation conditions. Each one of us should begin to tune channels 2-8 or so during Es openings, in the same manner we have grown accustomed to tuning channels 2-6. The results could easily surprise us all.



NORTHERN FM DX

June 2000

DXers Loggings!



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)

Jim Renfrew 61 Wilcox St. Rochester, NY 14607-3832 renfrew@localnet.com

All times EST/EDT

APR 6 Ms DX

1900 91.1 *KTPR IA Ft. Dodge - local pledge drive number, dual ID with WOI, Prairie Home promo, since verified. My first Ms reception.

May 5 Tr

1200 97.1 *W246AP NY Dansville - religion // 99.7 WZXV

May 9 Es

1924 90.3 UNID religion
 1928 90.9 WSOR FL Naples - ID during religion break
 1934 92.9 WIKX FL Charlotte Harbor - tentative, with country
 1934 94.9 UNID Hotel deal give-away
 1935 93.7 *WGYL FL Vero beach - ID and local ads
 1944 91.1 *WJFP FL Ft. Pierce - ID and station promos
 1947 100.1 #WOST FL Port Charlotte - local ads, ID
 1951 101.9 #WWGR FL Ft. Myers - Jermain Honda past Naples
 1959 91.1 *WKES FL Lakeland - dual ID with WKZM Sarasota
 2001 92.1 #WDDV FL Venice - "The Dove" slogan
 2002 93.7 #WCOV NY Clyde - now a Family Life Network affiliate with new calls
 2009 99.3 #WLLW NY Seneca Falls - now ID as "The Wall"

Mike Bugaj, Enfield, CT 06082 mbugaj@snet.net

May 1st Es

2201 KKOW -96.9 Pittsburg KS
 2205 KXLS -99.7 Alva, OK 99.7 KXLS
 2205 KWEN -99.5 Tulsa, OK
 2210 KWOX -101.1 Woodward, OK K-101
 2215 KAZY -95.9 Winfield, KS Classic Hits

May 9th Es

1915 WPBH -94.5 Parker, FL Pirate Radio
 1920 WEBZ -93.5 Port. St. Joe, FL 93.5 the Beat
 1924 WGWD -93.3 Gretna, FL Country 93
 1926 WKKZ -92.7 Dublin, GA local ads
 1932 WJIZ -96.3 Albany, GA Z-96.3
 1935 -98.7 Area code 404
 1938 WJZT -100.7 Midway, FL Tallahassee Ford
 1941 WXSX -101.5 Quincy, FL X-101.5 alternative
 1943 WVHT -105.7 Monticello, FL Hot-105.7

18 y good Es for May. If I hadn't been on the WTFDA list I would have missed this.

Rick Shaftan, Sparta NJ shaftan@ptd.net

Totals are now 1907 FM heard, including 978 e skip. New with *
 At the end, the first number is the mileage and the second is the beam.

April 27th Es

1119 88.1 *KCNT Hastings NE KCNT, The Beat 1235 268d
 1120 94.9 KJLT North Platte NE Calls 1362 269d
 1125 107.7 KSYZ Grand Island NE Ad for Kearney 1249 270d
 1128 106.9 ??? Here in Heaven by Clapton
 1130 106.5 *KMXX Ogalalla NE Adams Bank and Trust on E. Hwy 30 Ogalalla 1402 270d
 1137 103.9 *KNLV Ord NE The Best Day on KNLV 1256 271d
 1135 103.5 ??? Little Man, Alan Jackson. Maybe needed KNXP
 1144 107.3 ??? Religion
 1202 90.9 *KPNO Norfolk NE Wx, calls 1171 273d

May 1st Es

2004 92.1 *KCHE Cherokee IA Royals-As Baseball 1078 276d
 2020 101.7 *WTYE Robinson IL Stan Solomon 708 258d
 2151 90.5 *KRBW Ottawa KS The Voice of AFR, KRBW Ottawa 1104 261d Only 430 watts.
 2153 89.5 KHCD Salina KS Mentions of Salina and Manhattan 1206 263d
 2155 89.1 KMWU Wichita KS Calls 1227 259d
 2156 89.3 KCUR Kansas City MO Donations from Leavenworth KS 1055 262d
 2157 90.1 *KHCC Hutchinson KS NPR 1244 260d
 2158 91.1 *KCFN Wichita KS AFR 1225 260d
 2201 91.5 KANU Lawrence KS NPR 1098 262d
 2202 92.9 KANS Osage City KS Newman Hospital (Emporia) 1148 261d
 2205 88.3 *KYFW Wichita KS Family Nx. In Focus 1230 258d
 2208 89.7 *K209AP(t)# Sedalia MO Spirit FM 998 267d
 2210 90.1 ??? Program: Night Crossings
 2211 90.3 ??? 90.3 The Extreme
 2212 92.3 KOEZ Newton KS New Mix 92.3 1225 260d
 2213 93.7 KYEZ Salina KS KY-94 1220 263d
 2216 95.3 KSNP Burlington KS Calls, local ad 1132 259d
 2217 95.7 KCHZ Ottawa KS Kansas City ad 1084 262d
 2220 96.3 KRZZ Derby KS Ad for car dealer at 7310 E. Kellogg, Wichita 1228 259d
 2222 97.9 *KRBB Wichita KS Ad for car dealer at 7310 E. Kellogg, Wichita
 (same dealer as KRZZ's ad) 1237 259d
 2225 101.7 ??? Grace to You, maybe KREJ Medicine Lodge? But not listed on Grace to You web page.
 2228 102.1 KZSN Hutchinson KS Kissin 102 1238 259d
 2230 88.1 KJTY Topeka KS Back to the Bible 1114 263d
 2231 94.9 KCMO Kansas City KS Olathe ad 1060 262d
 2240 90.9 KHCT Great Bend KS Radio Kansas 1295 262d
 2243 88.3 KYFW Wichita KS Bible Broadcasting Network 1230 258d

ID for Spirit FM matches that for KCVO which this thing translates, but the bearing is off from the remainder of the eskip which was 259 to 263 degrees. This translator is listed as 54 watts. 12 new ones bring the official station count to 1894. Will I hit 2000 in 2000?

May 9th Es

1920	93.5	*WVOH	Hazlehurst	GA	Calls	771	213d
1922	92.1	WDDQ	Adel	GA	Country, Local ad, calls	839	213d
1924	92.5	*WKZZ	Tifton	GA	South Georgia's 92.5, WKZZ, The Rooster	814	214d
1926	107.5	*WTFI	Omega	GA	Braves Network, ID	826	215d
1932	88.7	*WMOC	Lumber City	GA	Black Gospel, ID	770	213d
1934	106.1	*WWLD	Tallahassee	FL	Groovin Oldies on the new Groove 106	911	214d
1935	105.9	*WHFE	Lakeland	GA	South GA mentions, Valdosta ad	836	212d
1935	105.7	*WFFM	Ashburn	GA	Black Mx.	815	216d
1936	105.3	*WSTI	Quitman	GA	Braves Baseball	861	213d
1945	103.1	*WAIB	Tallahassee	FL	B-103, more hot country hits	903	214d

1946	102.7	*WYSC	McRae	GA	Braves Baseball, GA Power Ad	768	214d
1947	101.7	*WYUM	Mt. Pleasant	GA	Calls, Chestnut City mention	746	213d
1950	101.1	*WAFI	Valdosta	GA	Religion	854	213d
1953	94.9	WTNT	Tallahassee	FL	Local ad	899	214d

This early e skip must be related to the hot wx we are having and the three days of 90+ temps which I cannot recall ever this early in May. Rick.

John Ebeling, Bloomington MN ijebeling@aol.com

1/2/00	17:30	K251CD	90.9	MN	Windom (WAFR Xltr)	111	miles
	22:25	K247AL	102.7	MN	Mankato (WNCB Xltr)	58	
1/3/00	23:00	KSMQ	92.9	NM	Socorro MBurst	1039	
2/17/00	17:32	WJMC	96.1	WI	Rice Lake (ex 96.3)	90	
4/27/00	09:57	WPMW	92.7	WV	Mulfins	797	
	09:59	WRJA	88.1	SC	Sumpter	1205	
5/1/00	19:55	WKML	95.7	NC	Lumberton	1038	
	19:57	WWXM	97.7	SC	Garden City 'mix 97.7'	--	
	20:00	WHPE	95.5	NC	High Point	930	
	20:03	WMIW	88.9	SC	N Myrtle Beach	1092	
	20:07	WKXB	99.9	NC	Burgaw 'jammin 99.9'	1083	
	20:12	WGNI	102.7	NC	Wilmington	1101	
	20:40	WRNS	95.1	NC	Kinston	1063	
5/3/00	19:48	KQRK	92.3	MT	Ronan	1012	
	20:02	KLFM	92.9	MT	Great Falls	879	
5/4/00	19:56	WQUE	93.3	LA	New Orleans 'Q93 jams'	1042	
	19:57	WTIX	94.3	LA	Galliano	1102	

Well, hope you can make it out O.K. as it is harder than hexx to keep a margin on e-mail typing.

WTFDA FLEA MARKET!

Where We Sell More Than Fleas!

Due to moving into a motor home, I have to downsize the following asap:

**"Super Sonic" tuneable preamp ch 2-6-FM-ch7-13 (1940-50s) NW B.O. "A gem"

TV Cable #IT&T Federal Cable REC (.105 sddid center w/fall braid-copper) VG, BO

MFJ #462B Code Reader N inbox B.O.

Icom TV-FM Adapter TV-7100 N inbox B.O.

30 foot TV Tower FREE! NO TRUCK!

Call Ray Leko at 440-693-4338

SOUTHERN FM DX



John Zondlo
4009 Driftwood Circle
Yukon, OK 73099
Jpzondlo@aol.com
Deadline: 10th

June 2000

Es noted on TV 5/1 2325 (KTBS 3 LA), but nothing on FM.



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

Onkyo tuner, 6 element yagi at 25'

4/8 Tr	
2310 KMEQ	96.7 TX Flower Mound, "Memories 96.7"
2343 KTPW	89.7 TX Sanger, "Dallas-Fort Worth's Power FM"
4/19 Tr	
0001 KLAW	101.3 OK Lawton, "Oklahoma's Best Country," x-101-5
0006 KHYI	95.3 TX Howe, ID
0049 KSTV	93.1 TX Dublin, "KSTV Country"
0319 KOOK	93.5 TX Junction, o

Many other Dallas & Wichita Falls area stations heard til 8AM.

For the first time I caught my local on 92.5 off the air for about 20 minutes and logged the following:

5/8 Tr	
0700 WQST	92.5 MS Forest, rel, ID
0703 KOMA	92.5 OK Oklahoma City, rx, spots, o
0715 KTXQ	102.1 TX Fort Worth, "Magic 102"
0757 WACO	99.9 TX Waco, ads
0830 WMBV	91.9 AL Dixon Mills, rx, ID

Jim Renfrew - 61 Wilcox St. - Rochester, NY
14607-3832 - renfrew@localnet.com
DXing from Raleigh, NC

4/25 Gw	
1020 LPFM	91.1 NC Raleigh, Dish Doctor ad loop (Glenwood Blvd & Pleasant Valley Road)
4/27 Gw	
1000 WDRP	98.9 NC Windsor, rel, never an ID all week, but local ads
4/29 Tr	
1500 WOKD	91.1 VA Danville, PAR FM rel pgm, multi-site ID, new since August
5/1 Gw/Tr	
1400 WTEB	89.3 NC New Bern, c, ID
1430 LPFM	91.1 NC Raleigh, another Dish outlet ad, 1181 New Hope Church Rd.
2355 WSNC	90.5 NC Winston-Salem, ID thru WAHD
2359 WWIL	90.5 NC Wilmington, Family Radio pgm, Wilmington PSA
5/4 Tr	
1150 WQDK	99.3 NC Ahsoskie, calls
1207 WRCM	91.9 NC Wingate, prayer by pastors in Concord & Indian Trails

William McGuire
2412 59th Pl.
Cheverly, MD 20785-2918
EDT



5/3 Tr	
2230 WKWI	101.7 VA Kimacock, "Bay 101.7," lcl wx
2240 WANN	102.1 VA Virginia Beach, promo for Cinco de Mayo, concert ment
2245 WOLC	102.5 MD Princess Anne, RDS, rel mx
2255 WLWV	105.5 MD Salisbury, o, "The Wave"
2300 unID	105.7 ?? ??, k
2305 WCEMT	106.3 MD Cambridge, AC, "The Best of the 80's & 90's"
2315 WSCL	89.5 MD Salisbury, cl
2325 unID	92.9 ?? ??, soul classics, "The new 92.9"

5/4 Tr	
0000 WDAC	94.5 PA Lancaster, SRN rx, ID

John Zondlo
4009 Driftwood Circle
Yukon, OK 73099
Jpzondlo@aol.com
CDT

Akai AT-VO4 tuner (modified with 2 150 kHz IF filters), Channel Master Stereo Probe 9 antenna. All new.

5/17 Tr	
0924 KABK	97.7 AR Augusta, local spots, "K-97.7" 360
1016 WFCA	107.9 MS Ackerman, Mississippi State U... baseball
1016 KRXX	107.9 LA Erath, "K-Rock 107.9" 507
1048 WFMF	102.5 LA Baton Rouge, calls, spots 520
1049 KPCH	97.7 LA Dubach, "The Peach," o 350
1101 WQNO	91.1 TN Memphis, wx, NPR rx 435



From the editor

By now you should all have gotten in on a good Es opening or two. Early season Es was better than most years.
See y'all next month!

WESTERN TV-DX

June 2000

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

This report is for April 2000. Overall, it was a mix of departing cool winter and somewhat warming spring conditions.

- Apr 1: None, eve improving (WX nice but)
 Apr 2: Fair, deteriorating (unsettled. Wx fronts)
 Apr 3: Poor, deter. (come thru' but any rain)
 Apr 4-7: Variable v. poor/poor (is further north,
 Apr 8: Poor, almost fair (until Apr 14 ...
 Apr 9: Very poor, deter.
 Apr 10 am: None
 Apr 10 eve-13 am: Variab. v. poor/poor
 Apr 13 eve-19 am: None (some rain & (Apr 17-18, lots of rain)
 Apr 19 eve-21: Variably v. poor/poor
 Apr 22-24 am: None
 Apr 24 eve-25: Variably v. poor/poor
 Apr 26-27: (Steadily) Poor Stable; (warmer temps
 Apr 28-29 am: (Suddenly) None Windy
 Apr 29 eve: Poor
 Apr 30 am: Poor, some signals fair (see note below)
 Apr 30 aft - eve: Poor

On April 30, the CCI on our local K49EK (presumably from XHUPN-49 Tecate BN at 200 mi/315 km) was the strongest yet seen, though summer may be better. At approx. 6:34 AM PDT, on a slight null on indoor bowtie for a fleeting couple of seconds, rather than programs, was a color-bar TP with big letters reading "ENTR'VISION" possible.

Best of DX to all
 Dennis

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

February 2000 CST

01tr	2300	KHNE	29NE	464
02tr	0500	KSAX	42MN	404
28tr	0350	KSAX	42MN	404
29tr	0500	KSAX	42MN	404

April 2000 CDT

19tr	0200	WCFT	33AL	593
27 Es	1000	WGBH	2MA	918
	1030	KHMT	4MT	925
		KTVQ	2MT	965
	1040	KSVI	6MT Billings	965
	1055	KYUS	3MT	853
	1100	KXGN	5MT	816

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

1200	KXMA	2ND	732	
1230	KWSE	4ND	802	
1310	CKCK	2SA	918	
1325	CKBI-TV-6	2 SA Spiritwood	1139	
1330	CKBI	5 SA	1063	
1335	CKBI-TV-3	4 SA	1178	
29 Es	1710	XHRIO	2TAM	1201
30tr	0500	WHPN	57WI Janesville	70

Es occurred from 0945 to 1345 on April 27. Skip began in MT and moved northeast. Billings area stations were very strong. A weak Billings ch. 8 signal was seen briefly on ch. 5 at 1100. I've called it KXGN-5 as they used KULR-8 newscasts ten years ago. The ID and auto ads were during ordinary programming though. Could KXGN-5 be a satellite of KULR-8 now? KULR-8 has two ch 5 low power xtrs, but I am counting the logging as KXGN-5 unless they currently have no affiliation with KULR-8. The new WIFDA TV Station Guide was indispensable in identifying some stations. Skip was also briefly in to the northeast.

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

March 2000 CST

7 tr	0947	KVTH	26AR "VTN"	295
		KLRT	16AR "Fox 16"	305
21 tr	2030	W35BM	35MS TBN	
	2036	WWSB	40FL ABC	
	2126	WFTX	36FL "Fox 4"	620
	2132	WFTS	28FL Tampa promo	550
	2133	WBHS	50FL Home shopping	550
28 tr	2026		same channels as 3/21	
	2056	KTLM	40TX TMD	545
		KVEO	23TX	500
	2204	KEDT	16TX Charlie Rose	425
	2230	WTVX	34FL program match	
	2233	WBSF	43FL HSN	655
	2234	WFLX	35FL program match	
	2356	WACX	55FL TBN	
29 tr	0704	WUSF	16FL PBS	550
	0707	WBCC	68FL	
		WOGX	51FL Fox	545
30 tr	2153	KERA	13TX bug lower right	365
	2203	KPXD	68TX Pax	385
31 tr	2229	KXAN	36TX	395
	2231	KNVA	54TX ID	395

April 2000 CDT

5 tr	2236	XHAB	7 TA soccer match	505
6 tr	1827	XHAB	7 TA	505
9 tr	2221	XHAB	7 TA	505

Western TV DX J. Kruszka's report continues

2335	XHREY	12TA SS		
18 tr	2257	KEDT	16TX Charlie Rose, ID	425
	2319	KVEO	23TX	500
	2322	KTLM	40TX SS	545
	2324	XHSAW	64NL music videos	610
	2354	KMBH	60TX 3/4 CB's, no ID on screen	495
	2357	XHFOX	17TA Fox 17	535
	2359	XHVT	54TA SS	505
19 tr	0003	XHAB	7 TA ID on screen	505
	2313	XHREY	12TA TV Azteca 13 logo	535
	2316	KVEO	23TX NBC	500
	2335	XHMTA	11TA SS	
26 Es	0714	unid CBS 4	to N.E., not // to local	
tr	2230	XHAB	7 TA X-Files in SS	505
	2232	XHREY	12TA SS	535
27 tr	0707	XHRT	14TA SS	
Es	1851	unid SS 3		
tr	2200	XHAB	7 TA	505
	2320	XHREY	12TA SS	535
	2354	KZTV	10TX ID (nice!)	425
28 Es	1949	unid SS 3,5		
29 Es	2004	unid 4 SS	soccer match	
30 Es	2023	unid SS 3,5		

I would have expected more tropo these 2 months, but I'll take the early E-skip!

- Jeff

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

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

April 1

2000	KXTX	39 TX	Dallas	518
April 5				
0630	KVHP	29 LA	Lake Charles	530
2130	WTTA	38 FL	St. Petersburg	1116
	WBHS	50 FL	Tampa	1116

April 6

0300	WPMI	15 AL	Mobile	838
	WMAH	19 MS	Biloxi	770
	WVLA	33 LA	Baton Rouge	633
	WLPB	27 LA	Baton Rouge	638
	WGNO	26 LA	New Orleans	694
	WLAE	32 LA	New Orleans	694
	WNOL	38 LA	New Orleans	694
	WPXL	49 LA	New Orleans	688
	KETK	56 TX	Jacksonville	532
	KADN	15 LA	Lafayette	586
0330	WMPV	21 AL	Mobile	842

WAPT	16 MS	Jackson	754	
WEIQ	42 AL	Mobile	825	
KFKX	51 TX	Longview	557	
KASN	38 AR	Pine Bluff	772	
KMSS	33 LA	Shreveport	615	
KPXJ	21 LA	Minden	640	
KLTS	24 LA	Shreveport	616	
WXVT	15 MS	Greenville	794	
KLBS	19 TX	Nacogdoches	517	
WMAV	18 MS	Oxford	866	
WMAU	17 MS	Bude	697	
0400	KLPA	25 LA	Alexandria	619
0500	WTJP	60 AL	Gadsden	998
	WPAN	53 FL	Fort Walton B.	869
	WCFT	33 AL	Tuscaloosa	924
0530	KDXT	58 TX	Dallas	518
	WGMB	44 LA	Baton Rouge	633
	KARD	14 LA	West Monroe	659
	WPXX	50 TN	Memphis	904
0600	WDBB	17 AL	Bessemer	917
	WGBC	30 MS	Meridian	834
	WUPL	54 LA	Slidell	705
	unid ch 48	PAX		
	WLMT	30 TN	Memphis	901
	WTTO	21 AL	Homewood	969
0630	WDBD	40 MS	Jackson	754
0700	WFTX	36 FL	Cape Coral	1142
	WNCF	32 AL	Montgomery	928
	WXXV	25 MS	Gulfport	764
	WFXL	31 GA	Albany	1066
	WGCU	30 FL	Fort Myers	1144
	WCOV	20 AL	Montgomery	958
2100	WTLX	27 FL	Tallahassee	1031
	WXTX	54 GA	Columbus	1037
2130	WAWS	30 FL	Jacksonville	1179
	WTEV	47 FL	Jacksonville	1179
	WJEB	59 FL	Jacksonville	1180
	WJWB	17 FL	Jacksonville	1180
	WGFL	53 FL	High Springs	1112
2200	WJXX	25 FL	Orange Park	1163
April 7				
0000	WIAT	42 AL	Birmingham	969
	KLTL	18 LA	Lake Charles	548
	WATL	36 GA	Atlanta	1104
	WUPA	69 GA	Atlanta	1100
	WLTZ	38 GA	Columbus	1036
	WSWS	66 AL	Opelika	1023
	WHSG	63 GA	Monroe	1119
	WTBS	17 GA	Atlanta	1101
0030	WFSG	56 FL	Panama City	929
	WTLH	49 GA	Bainbridge	1029
	WACX	55 FL	Leesburg	1180
	WJSP	28 GA	Columbus	1057
	WMDN	24 MS	Meridian	834
0100	WMCF	45 AL	Montgomery	965
	WGNX	46 GA	Atlanta	1104
	WDTA-LP	53 GA	Fayetteville	1101
	WACS	25 GA	Dawson	1041
	WMAW	14 MS	Meridian	807
	WABM	68 AL	Birmingham	966
	WNTZ	48 MS	Natchez	670
	WPXA	14 GA	Rome	1105

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

WGIQ	43 AL	Louisville	987
0200	WDHN	18 AL Dothan	982
	WABW	14 GA Pelham	1048
	WSST	55 GA Cordele	1081
	WGVP	44 GA Valdosta	1090
	WIIQ	41 AL Demopolis	877
0230	WSFA	12 AL Montgomery	955
	KLPB	24 LA Lafayette	567
	K56DR	58 LA Baton Rouge	633
	WTNZ	43 TN Knoxville	1197
0300	WASV	62 NC Asheville	1239
	WPGA	58 GA Perry	1115
	K66FI	66 LA Opelousas	599
	W61DH	61 AL Montgomery	965
	K59DG	59 LA New Orleans	688
	W55BM	55 GA Marietta	1106
	WHNS	21 NC Asheville	1231
	WLTN	19 SC Columbia	1299
0330	W47CG	47 MS Meridian	834
	K51EC	51 LA Lake Charles	532
	WDCO	29 GA Cochran	1125
0500	W52BC	52 AL Selma	928
	W68CM	68 FL Panama City	943
0530	WUNG	58 NC Concord	1342
	K69HD	69 LA Church Point	586
	KLAF-LP	62 LA Opelousas	600
	WOGX	51 FL Ocala	1123
0600	WAGT	26 GA Augusta	1225
	WCES	20 GA Wrens	1197
	WPBA	30 GA Atlanta	1103
	WPGX	28 FL Panama City	952
0630	WHBR	33 FL Pensacola	838
0700	WNTV	29 SC Greenville	1237
	WBSG	21 GA Brunswick	1171
	KFWD	52 TX Fort Worth	522
	KWHB	47 OK Tulsa	765
	KAUT	43 OK Oklahoma City	706
	KJTL	18 TX Wichita Falls	598
	Monterrey's temperature up to 104 F at 3 PM		
April 9			
0600	WTVT	13 FL Tampa	1117
	WUSF	16 FL Tampa	1116
	WMOR	32 FL Lakeland	1135
	WTVK	46 FL Naples	1153
	WBBH	20 FL Fort Myers	1144
	WPBF	25 FL Tequesta	1228
0630	WZVN	26 FL Naples	1153
	WFTS	28 FL Tampa	1116
	WSCV	51 FL Fort Lauderdale	1242
	WBZL	39 FL Miami	1243
	WAMI	69 FL Hollywood	1242
	WBFS	33 FL Miami	1242
	WLTN	23 FL Miami	1242
	WOPX	56 FL Melbourne	1189
	WRXY	49 FL Tice	1142
	WBSV	62 FL Venice	1107
	WHFT	45 FL Miami	1244
	WWSB	40 FL Sarasota	1108
0700	WPXP	66 FL Bradenton	1115
	WFLX	29 FL West Palm Beach	1238

	WXEL	42 FL West Palm Beach	1238	
0730	W67BY	67 FL Fort Myers	1143	
	WPDX-LP	57 FL Fort Myers	1139	
	0800	W24AT	24 FL Sarasota	1102
	April 11			
	0600	XH???	14 TA Reynosa?	
	new station with Reynosa hdn w/XHMT-7, not XHOR a few days later it's // XHOR-14			
	April 14			
	2100	KOKH	25 OK Oklahoma City	703
	April 15			
	1030	KLAX	31 LA Alexandria	618
	April 17			
	0630	WHNO	20 LA New Orleans	688
		K47DK	47 OK Grandfield	598
	0700	KCIT	14 TX Amarillo	677
	April 18			
	0330	KOPX	62 OK Oklahoma City	705
	0400	KSTR	49 TX Irving	518
		KLDT	55 TX Lake Dallas	544
		KPXD	68 TX Arlington	518
		KSBI	52 OK Oklahoma City	692
		KAMC	28 TX Lubbock	553
		K53DS	53 OK Lawton	623
		K55IF	55 TX Seminole	511
		K36DV	36 TX Amarillo	675
0530	KBZO-LP	51 TX Woodrow	558	
	KCBD	11 TX Lubbock	555	
0630	K59GC	59 TX Plainview	600	
	K53FR	53 TX Plainview	599	
0700	unid ch 62 BOX, K62DG?			
	KXTQ-LP	46 TX Lubbock	552	
	KTAQ	47 TX Greenville	574	
0730	KMPX	29 TX Decatur	537	
	KLBK	13 TX Lubbock	554	
2100	KDAF	33 TX Dallas	518	
	KTXA	21 TX Fort Worth	518	
	KDOR	17 OK Bartlesville	795	
	K49DE	49 LA New Iberia	596	
	K46DG	46 LA Lafayette	587	
2230	K46CR	46 LA Baton Rouge	645	
2300	KLFT-LP	21 LA Lafayette	592	
	April 19			
	0430	KLRT	16 AR Little Rock	782
		KYPX	42 AR Little Rock	803
		KWMJ	53 OK Tulsa	766
	0600	KWBTV	19 OK Tulsa	746
	2000	WAWD	58 FL Fort Walton B.	897
	2030	W31BB	31 FL Pensacola	855
		W50CF	50 AL Mobile	817
	2200	W52BF	52 AL Mobile	818
		WPCT	46 FL Panama City	934
	2300	ch 13 TeleRebeldelde CUBA		
	April 20			
	0000	W36AC	36 MS Mccomb	710
		K55HA	55 LA New Iberia	596
	0030	WHLT	22 MS Hattiesburg	775
		WDFX	34 AL Ozark	985
		W47BP	47 MS Hattiesburg	766
0400	WLOX	13 MS Biloxi	762	
	WYES	12 LA New Orleans	693	
0600	WAIQ	26 AL Montgomery	959	

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

April 22				
2100	WPXP	67 FL Lake Worth	1248	
2200	WLRN	17 FL Miami	1242	
	WPXM	35 FL Miami	1237	
April 23				
0600	W58BU	58 FL Hallandale	1243	
	WFGC	61 FL Palm Beach	1248	
0800	W31CD	31 FL Miami	1244	
	1030	KDFW-DT32 TX		
April 24				
2100	XHST	13 YU Merida	780	
April 26				
0100	XHCCU	13 QR Cancun	897	
0300	WHDT-LP	55 FL Coral Springs	1236	
	2200	unid ch 21 Louisiana JukeBox		
April 27				
0000	K67GL	67 LA Bunkie	614	
	K52EV	52 LA Leesville	574	
April showed 12 days of 1,000+ mile tropo TV DX 5, 6, 7, 9, 18, 19, 20, 22, 23, 25, 26, 28.				
Pat Dyer, W5IYX, 5315 Silvertip Drive, San Antonio, TX 78228-2744 http://home.swbell.net/pjdier/index.html				
April 2000 UTC				
26 Es	1600	WSB-	2 GA Atlanta	888
26	1613	WBTV	3 NC Charlotte	1092
In-state tropo was enhanced (as it is again Thursday morning) so much masking was occurring of where the "real" Es MUF might have been.				
Tuesday night the long-dreaded KBEJ-2 "Fredericksburg" had made a debut (of sorts) with Color-Bar test pattern and ID. It's not clear yet if it is running at a full 100-kw ERP. So far, at this range (46 mi at 358 deg), it was very susceptible to KPRC-2 tropo QRM as well as Es if not more-or-less beamed toward. Indoor whip reception many db down from what is delivered by the other local low-band 100-kw's at 25-mi (se) on Ch 4 and 5.				
27 Es	1529	WCBW	2 SC Charleston	1141
29 Es	0114	TGV ?	3 Guatemala ?	
29	2242	WESH-	2 FL Daytona Beach	1044
29	2355	WEDU	3 FL Tampa	994
30 Es	0013	WPTV	5 FL West Palm Beach	1139
30	0022	WTVJ	6 FL Miami	1144
30	2248	WPBT	2 FL Miami	1149
May 2000				
01 Es	2132	WSB-	2 GA Atlanta	888
01	2141	WBTV	3 NC Charlotte	1092
01	2147	WFMY-	2 NC Greensboro	1175
01	2222	WCBW	2 SC Charleston	1141
01	2227	WSAV-	3 GA Savannah	1043
01	2300	WRBL	3 GA Columbus	843
01	2350	WPBT	2 FL Miami	1149

KBEJ-2 Fredericksburg ceased its test-pattern operation after a little over a day and has been silent since. One would hope that this was not some "low-power" dry run.

73, Pat - W5IYX EL09QL (San Antonio, TX)

Doug Beck, W7MQY, Merlin, OR
May 8 2333Z

KSWK, Smokey Hills pbs station in Kansas, Ch. 3 into Southern Oregon

Picked up the preceding report from a friend off the internet (he is not a WFTDA member).

Until about May 10, the video carriers of New Zealand (ZL) TV (45.240, 45.250, & 45.260 MHz) (and, for that matter Australian (VK) TV (46.172, 46.240, 46.250, 46.260 MHz)) have been received almost daily on the west coast. Many days their FM audio (5.5 MHz higher) has been received as well. Identification, however, eludes us.

Picture Problem #1 is interference from other users of the 44-51 MHz spectrum. Problem #2 is that usually two or more stations are being received at comparable strength. Problem #3 is ionospheric dispersion. Oh yes, then there is the different scan rate! Audio Problem #1 is that they never seem to identify on audio. Problem #2 is fading and multiple stations, but perhaps the worst problem is that if the audio is in (at 50.740, 50.750, and 50.760 MHz) then I'll be trying to contact radio amateurs 0.6 MHz lower in frequency.

Apparently Mike Cherry has had better luck getting readable pictures. In his report, which follows, the letter/number combinations (CM87) are 1° x 2° grid locators used by radio amateurs.

Mike Cherry, VE7SKA, Box 631 Ganges PO, Salt Spring Is. BC V8K 2W2 CANADA

April 2000 UTC
07F2 0247-0355 ZL video 45.240/250/260 TV to S9 beam:265°

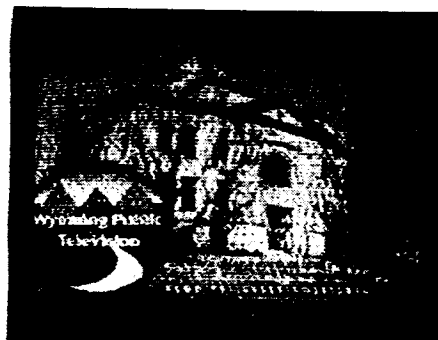
Good pictures seen on .240 & .260 at times.
27F2 2322-0140 ZL video 45.240/260 255°
29ms 1856 KUSF 90.3 CA 175° CM87
The burn with KUSF lasted over a minute complete with station ID & stereo signal. It ran right over KCMU 90.3 Seattle which I was listening to at the time.

May 2000 UTC
03Es 0300 KREG 3 CO 165°
10Es 2258 KTW0 2 WY 140° DN62
2344 KTVS 3 CO 140°
2359 KBME 3 ND 110°
11Es 0000 KNOP 2 NE 110°
14Es 0400 KUTV 2 UT 155° DN40
0409 KTVK 3 AZ 160° DM33
0425 KVBC 3 NV 165° DM26
0434 KCBS 2 CA 165° DM04
0459 KCRA 3 CA 165° CM98
0500 KTVU 2 CA 165° CM87

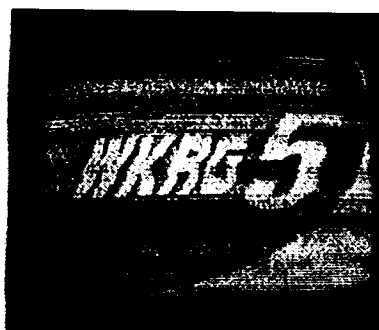
Jeff Kruszka, Editor
 5024 S. Braxton Ave.
 Baton Rouge, LA 70817
 JTKruszka@worldnet.att.net

June 2000

More fantastic DX from Danny Oglethorpe, Shreveport, LA:



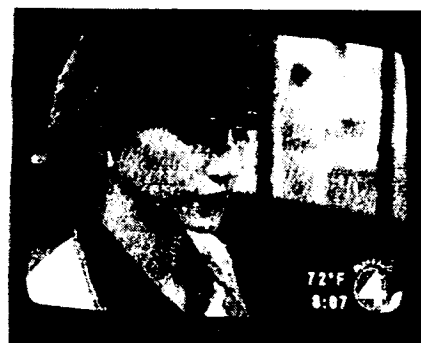
KCWC-4 Lander, WY
 1071 mi Es seen 1/12/00
 @1230 CT
 "Two shots"



WKRG-5 Mobile, AL
 355 mi Tr seen 1/12/00
 @0930 CT



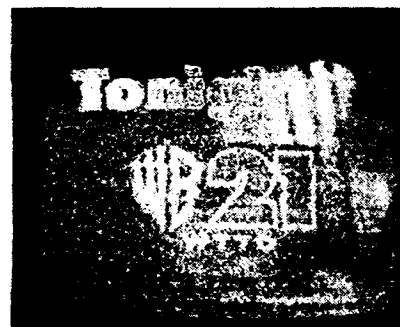
KRIS-6 Corpus Christi, TX
 385 mi Tr seen 1/2/00
 @0315 CT
 "Local off"



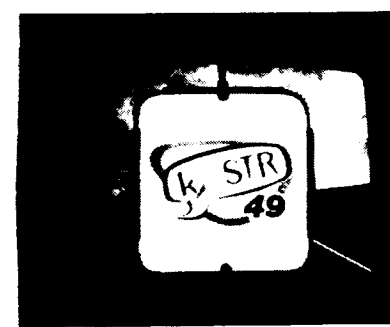
WTVB-4 Buffalo, NY
 1091 mi Es seen 8/99
 @1907 CT



XEPM-2 Cd. Juarez, CHH
 746 mi Es seen 2/12/00
 @1900 CT
 "ID up a full 30 sec!"



WDBB-17 Bessemer, AL
 376 mi Tr seen 2/15/00
 @0315 CT
 "relaying WTO-21"



KSTR-49 Irving, TX
 187 mi Tr seen 2/15/00
 @1115 CT



Figure 1. DigiCeiver System Block Diagram

DigiCeiver®: How it Works

Blaupunkt's Digital Radio Signal Processing Provide Superior AM & FM Reception and DSP Features

Blaupunkt DigiCeiver® AM/FM tuner technology converts radio frequency signals into digital data.

BROADVIEW, IL -- Blaupunkt has developed a revolutionary digital radio signal processing technology that will obsolete most of the circuitry in conventional AM/FM radios. By converting radio signals into digital data, Blaupunkt DigiCeiver® technology offers major improvements in reception capability, sound quality, and convenience compared to conventional radios. DigiCeiver technology will first be used in a new line of Blaupunkt car stereos being introduced later this year.

Although so called "digital radios" have been sold for years, these merely have digital station displays and use digital ICs to generate analog reference signals. They do not process the signal in the digital domain, and the signal path is pure analog from antenna to speaker.

DigiCeiver technology operates in a manner analogous to digital audio, but at much higher frequencies. Just as analog sound waves are converted into the bits and bytes of digital audio data, DigiCeiver converts analog radio frequency signals into digital data. Once this is done, digital software is used to produce high quality stereo sound, reduce interference and distortion, extract RDS (Radio Data System) and other data subcarriers, and to provide a high level of digital control over the functioning of the analog front end circuitry. In addition to improving radio reception, DigiCeiver technology will provide a digital pathway with direct digital inputs for better audio integration with CD players, RDS, computers, navigation and other automotive systems.

DigiCeiver technology is made possible by the development of high speed A/D (analog to digital) converters operating at 14.25 MHz, roughly 325 times faster than the A/D converters used for digital audio. This A/D converter digitizes the modulated 10.7 MHz IF (intermediate frequency) carrier from the RF front end circuitry. Once this is done, all further filtering, demodulation, and multiplex processing are performed as mathematical calculations in the digital domain. The only analog circuits are the antenna input RF amplifier, mixer and the first IF filter.

With two integrated circuit chips and digital signal processing software, DigiCeiver eliminates a whole range of conventional radio circuits -- IF filters, IF amplifiers, stereo detectors, demodulators, multiplex filters, RDS detectors, SCA detectors, FM deemphasis, etc. -- all replaced by software code. Furthermore, this code can be reprogrammed as needed to change operating parameters, to fine tune performance or to accommodate new features.

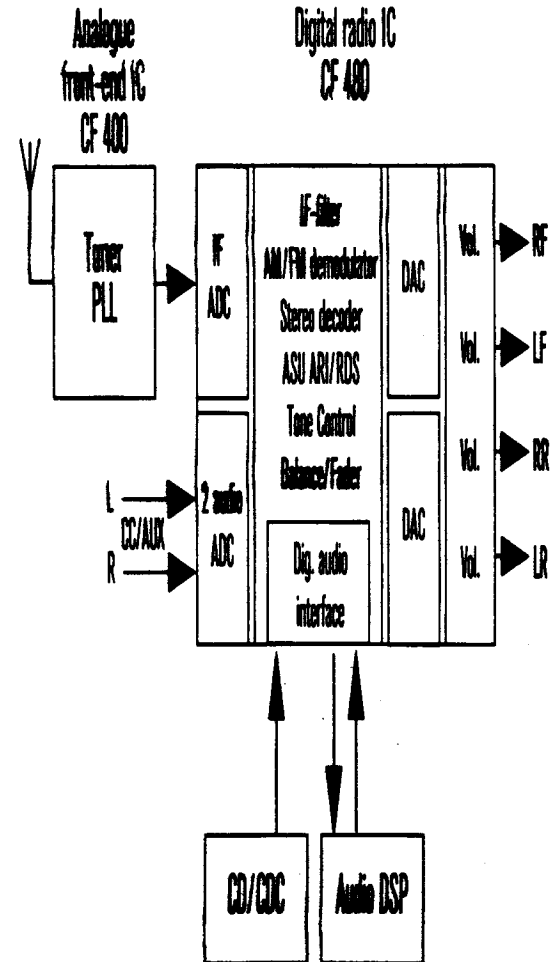
Offering vastly superior station separation, the digital IF filter has automatic, dynamic bandwidth control that adapts instantly and continuously to changes in the signal. In addition, the shape of the IF bandpass has a steep, almost vertical roll-off, compared to the broad, bell-shaped curve of a less selective conventional filter.

To further take advantage of the digital environment, DigiCeiver has digital loudness and tone controls, and some models will have digital parametric equalization. In specific OEM and aftermarket applications, these equalizer settings could be factory- or dealer-optimized to match the acoustic personality of the car.

DigiCeiver offers superior performance without the high costs associated with premium conventional tuners. While functional tuners can be made quite cheaply (and usually are), high performance analog tuners require very careful design and expensive low-tolerance parts. Each individual circuit in each individual radio must be electrically aligned and calibrated in order to even approach the performance of DigiCeiver.

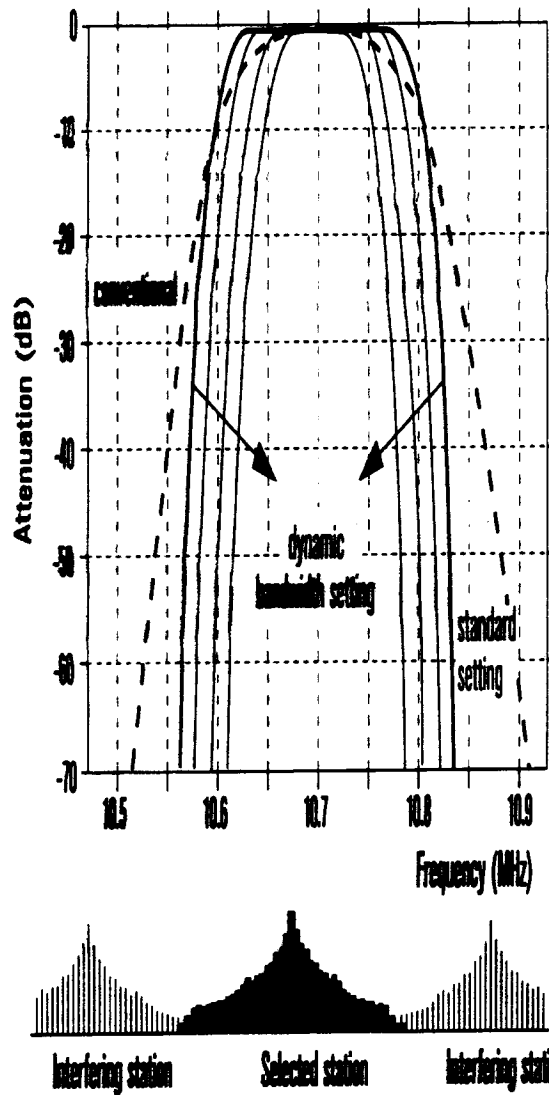
Blaupunkt's first DigiCeiver-based car stereo systems will go on sale at aftermarket retailers in the Fall, and the company is investigating OEM opportunities.

Blaupunkt, the mobile electronics division of The Robert Bosch Corporation, designs and manufactures high quality and high performance products for sale worldwide. For Blaupunkt dealer locations and product information, call 1(800) 950-BLAU [2528] or visit the company's web site at <www.blaupunkt.com>



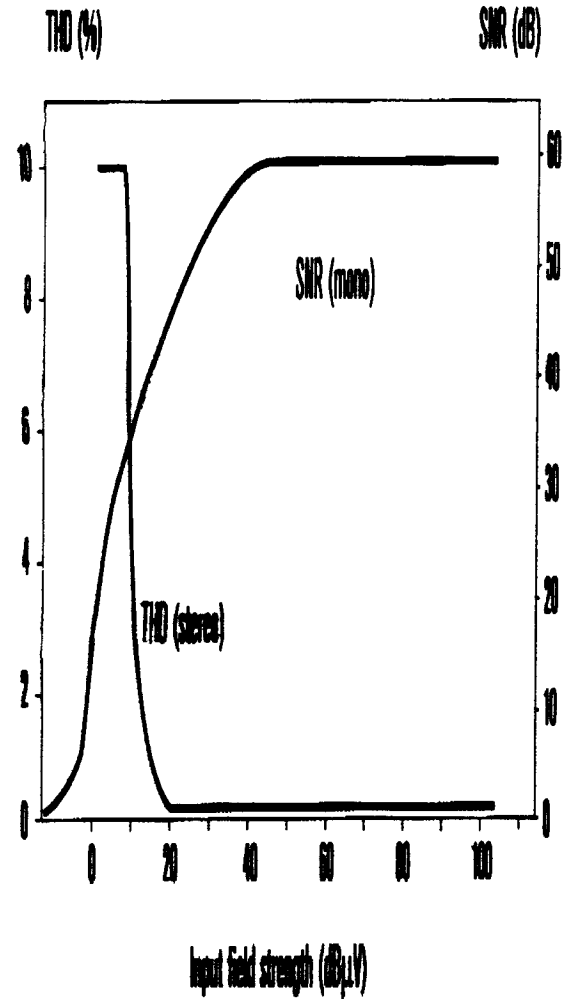
As a result of advanced high-integration strategies, the complete functionality of a top-level car radio has been reduced to a two-chip set. The digital IC performs the following functions: A/D conversion at the IF-level, IF filtering, AM/FM demodulation, stereo and RDS decoding, RDS error correction, tone control, D/A conversion at audio frequencies, and volume control. It contains additional inputs for both analog and digital sources plus a communications interface for digital signal processing.

Figure 2. Automatic, Dynamic Bandwidth Control



Based on highly advanced chip design, digital technology produces optimum reception quality. Digital IF filters provide superior performance compared to conventional technology. Among their dominant characteristics are: nearly perfect rectangular shape, complete symmetry, no group velocities, and total independence from component tolerances and temperature variations. Automatic, dynamic bandwidth setting improves reception in the event of interference from neighboring stations.

Figure 3. Reception Characteristics



Good signal-to-noise ratios over large variations in input field strength together with extremely low third-harmonic distortion lead to exceptional reception and superior sound.

WTFDA: THE ONLY CLUB FOR ENTHUSIASTS TOTALLY DEVOTED TO LONG DISTANCE TV AND FM SIGNAL RECEPTION AT VHF AND UHF!

THE HISTORY OF TROPO PROPAGATION

-- by Howard Oakley

Although one of Marconi's first spectacular demonstrations of communication by radio waves used a frequency around 1000 MHz, in 1896, his work on LF, MF and HF bands prevented him from experimenting further with VHF and above until 1928. Returning to Italy to assume the Presidency of the Italian Royal Academy, he took his research staff and their work with him. The Italian government requested him to experiment with communications in the low VHF region (just above 30 MHz) between Sardinia (Golfo Aranci) and the Italian mainland at Fiumicino. Using an effective radiated power of about 40 kW, Marconi demonstrated that communication was possible over a path of 270 km, about 8 times the optical range. Among these early observations was the fact that signal strengths in the winter were some 20 dB less than in summer.

Marconi first presumed that the radio waves were being refracted within the troposphere, saying in 1930:

From measurements effected recently it would seem that along the route between Sardinia and the Italian mainland this wave is refracted and contained within a space lying between the surface of the earth and a layer situated somewhat lower than the Heaviside layer.

At this time, theory was based on Watson's solution of diffraction around a smooth spherical earth (1919), which predicted an exponential decrease in signal strengths beyond the optical horizon of about 1.2 dB per mile (at 500 MHz). Thus, beyond line of sight propagation at VHF and above was considered to be a freak phenomenon, rather like optical mirages.

Further pioneering work at VHF and higher frequencies was carried out by Uda (Japan, 1930s), Pistor (Germany, 1930), and Clavier & Gallant (who established the first 2-way communication link across the Channel in 1933, using a frequency of 1500 MHz). However, it was still technically very difficult to construct transmitters and receivers capable of working reliably and accurately at these higher frequencies.

In 1932, Marconi and his team of scientists and engineers started a series of experiments designed to extend the range of communication at VHF and above. Using the steam yacht *Eletra* and stations on the Italian mainland, they demonstrated repeatedly that signals could be received reliably to about 3 or 4 times the optical range, although fading became deep and relatively rapid once beyond line of sight. They established that the angle of arrival of these signals was tangential to the horizon and in the direction of the transmitter, the basic geometry of tropo modes of propagation.

Unfortunately, attempts in 1932 to achieve a path of 400 km (between Rocca di Papa, Rome, and the *Eletra* in Venice Harbour) failed. In the autumn of 1933, though, Marconi achieved a total distance of 258 km (9 times optical) in spite of two groups of high hills in the path. This was probably the first evidence of tropospheric propagation which could not be explained by simple diffraction and refraction. This was reported to the Royal Academy of Italy on 14th August 1933, and an account has been given by G A Isted, one of Marconi's team at the time (see below).

BBC research also started in 1932, with the establishment of an experimental transmitter using 38.7 MHz at Broadcasting House, London, which was assessed at distances of up to 100 miles. The inauguration of BBC television transmissions in 1936 brought regular reports of signal reception up to 200 miles away, and the BBC Research Department conducted tests over short periods at up to 500 miles distant.

The massive effort devoted to the development of radar systems by the USA and UK during the Second World War brought the next fruits. Although much of this work focussed on ducting tropo, which was beautifully demonstrated in many of the early radar experiments, interest in non-ducting modes was also fostered. The most accessible account of this work is the compilation by Kerr, which is still to be found in some bookshops (including Foyle's, Charing Cross Road, London). The contribution of amateurs, particularly Ross A Hull in the period 1934-1937, has been widely acknowledged.

Tropo propagation beyond line of sight became commercially important in 1949, when the USA licensing authority had to freeze the introduction of new TV stations because co-channel interference proved to be much greater than had been expected from the smooth sphere theory. A rapid growth in research resulted in the Booker-Gordon theory (1950), and later signal contributions by many others including Tatarskii. The BBC conducted further experiments between 1946 and 1957, using frequencies around 90 MHz, and others between 45 MHz and 560 MHz, and these are described by Rowden et al.

Eventually, tropo scatter links were used for commercial and military communications: early systems were installed in 1953, and they were popular during the 1960s and 70s, before satellites. Amateurs took advantage of the availability of VHF equipment following the Second

World War, and from the 1950s onwards have regularly worked well beyond line of sight on VHF and above, particularly using single sideband (SSB, mode J3E) and Morse (CW, mode A1A).

So the next time that someone suggests that VHF propagation is only 'line of sight plus a third', tell them that they are 70 years out of date, and that the BBC knows they are wrong too!

Bibliography:

Bullington K (1955) Characteristics of beyond-the-horizon radio transmission. *Proceedings of the IRE* Oct 1955, 1175-1180.

Isted G A (1958) Guglielmo Marconi and communication beyond the horizon: a short historical note. IEE Symposium on Long-Distance Propagation above 30 Mc/s, 28 Jan 1958. Pp. 79-83.

Kerr D E (1951) (editor) *Propagation of Short Radio Waves*. Reprinted by Peter Peregrinus, 1987, ISBN 0-86341-099-5.

Rowden R A, Tagholm L F & Stark J W (1958) A survey of tropospheric wave propagation measurements by the BBC, 1946-1957. IEE Symposium on Long-Distance Propagation above 30 Mc/s, 28 Jan 1958. Pp. 84-90.

SATELLITE NEWS ...continued from page 15

- MPEG 2 on PanAmSat 5
- XPDR 9 - CCTV 4, CCTV 3 and CCTV 9 - plus 2 color bars from CCTV - all NTSC color - several other color bars
- 15 - Deutsche Welle plus radio 1, 2 and 7
- RTP - Lisbon Portugal, plus radio Antena 1
- 17 - NHK - in NTSC and PAL
- 22 - Art - America (Arabic Radio and Television Art Movies
- LBC America - Beirut, Lebanon
- RAI International
- the above services also in PAL color
- JSC - Al-Jazeera satellite Channel
- Al Dakir radio
- Arabic Music Channel
- Quoran Radio
- 21 - Caracol - Bogota, Colombia

That's all for this month - see you again in 30. '73's

George

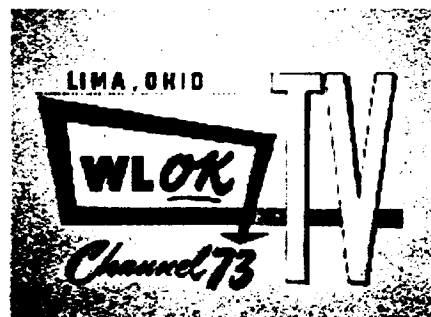


WORLDWIDE TV-FM DX ASSOCIATION
SERVING THE VHF-UHF DX ENTHUSIAST



WELCOME TO LIMA, OHIO

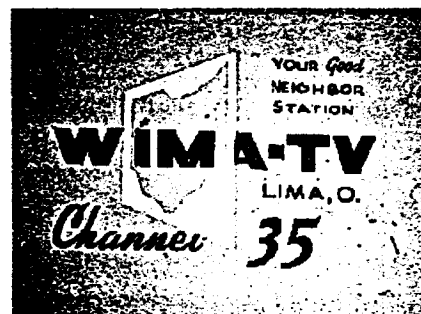
(Admittedly, Lima, Ohio isn't a place that gets a lot of TV and FM DX publicity; but in WLJO-TV it has what is probably the most DXer-friendly TV station in the U.S. Chief Engineer Fred Vobbe is the guy who validates that statement. Fred is a member of this club, but is more widely known for his work with DXAS, which is an audio version of the National Radio Club's monthly publication "DX NEWS". Thanks to him for the vintage ID slides featured here. By the way, WLJO-TV has one of the best station history sites available on the web. I suggest that you visit <<http://www.wljo.com/history/history.htm>>; and while you're there take a look at the engineering section. You'll see Fred in action!)



Lima's first station began telecasting in 1953 on channel 73. In 1955 the call was changed to WIMA-TV and the operation moved to channel 35. The Lima market is situated midway between Toledo and Dayton and has only one major network affiliate...channel 35.



Note the hand-drawn and lettered artwork. This was the standard for early tv graphics.



Here's more hand drawn art; and a continuation of the promotional slogan.



The logo on the left illustrates advances in graphics design and was likely used in the early days of local color origination. The slide on the right is what I consider a DXer's dream. Even Mr. Magoo could read that type size. By the way, the NBC "N" logo created quite a stir when it was introduced. It seems that after spending several million dollars to design it, NBC was advised that an identical logo had already been conceived, copyrighted, and was in use by the Nebraska Public TV network. Ultimately, NBC bought the rights to the logo, and in the process made a multi-million dollar deposit in Nebraska Public's bank account.



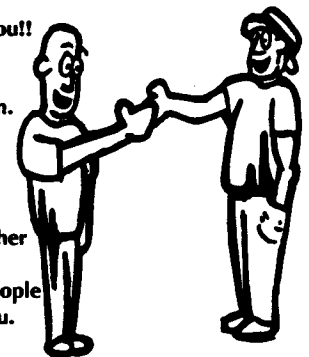
PO Box 501, Somersville, CT 06072

www.anarc.org/wtfda/
wtfda@topica.com
 IRCnet, #wtfidx

The DXer's Buddy System

The WTFDA DXer's Buddy System is working for you!! Have YOU considered joining the Buddy System and sponsoring a TV/FM DXer? Or maybe you're someone that could benefit from the Buddy System.

Here's How It Works: Some people that are TRUE DXers find themselves limited financially. Joining a club may be something they would really like to do, however, finding the money to do such is another matter. WTFDA is doing all they can to help those share in this fun and growing hobby, by finding people that want to be someone's buddy. Maybe that's you.



When you volunteer to be a DXer's Buddy, you volunteer to cover your buddy's club dues, for however many years you wish. Your buddy then receives all the same benefits as any other full fledged member. They regularly receive the club journal, VHF-UHF Digest; they are granted access to the Topica e-mail site; they get to participate in all club functions; and, can also serve in club capacities, if needed.

You're also helping your DXer Buddy discover the real world of dxing, by sharing his or her dx experiences with others that share their same hobby interest. Not only will it increase the joy of that persons interest in dxing, you will also be spreading the word about TV and FM dxing to the world. And then there's the possibility of being named the 'DXer's Buddy of the Year'.....



How To Sign Up!

Whether you want to be someone's DX Buddy or would like to find out how you can be a candidate to have a DX Buddy, all you have to do is drop an e-mail message to Mike Bugaj at ikon@netcom.com or mbugaj@snet.net, or write to the address at the top of this page, and let him know your request. Whatever your request, the information will be held in the strictest confidence, if that is your wish.

The World Is Waiting For YOU To Be Someone's Buddy!