

The Worldwide TV-FM DX Association

Serving the VHF-UHF Enthusiast

VHF-UHF DIGEST E-ZINE VERSION

FEBRUARY 2002

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. The WTFDA is governed by a board of directors: TOM BRYANT, GREG CONIGLIO, BRUCE HALL, DAVE JANOWIAK AND MIKE BUGAJ.

CHECK THIS LIST!

In order to keep your VUD arriving at your home without interruption, look for your name on this list. Your membership ends on the last day of the month shown. Renew *early*!

<u>February</u>

Frank Merril Jeff Wolf Steven Cornell Nathaniel Ely Harry Hayes Ray Leko Morris Sorensen John Zeis Dan Cashin Dan Dankert Paul Hansen James Nahirniak Clay Autery

<u>March</u>

Edward Cotton Bill Draeb Bill Dvorak Pat Dyer Carlon Howington Scott Steenhusen Phil Sullivan David Cox Frank Drobny Ryan Grabow Paul Crego Joseph Kureth Jr. Aaron Mitterling Gerard Hart Thomas Leu Jim Pizzi Joseph Smith Jr Richard Steinberger Peter V. Taylor Allan Dunn Dave Nieman William Hepburn Luis Franceschi Alex Cruz

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This month we continue with Mike Hawkís article on E skip, Saul Chernos returns with more on-line goodies, Doug presents his year 2001 E skip analysis and Fred Nordquist delivers his FM Statistics. Youill find this and much more in this issue of the VHF-UHF Digest.

Although we try, we cannot guarantee that every column appearing in the paper VUD will appear in this electronic edition.

WTFDA CONVENTION 2002 JULY 26, 27, 28 in OKLAHOMA CITY, OK

WTFDAis 2002 Convention is coming to the heartland! Make your plans now to attend! Our host motel is the Hampton Inn, located at I-40 and Garth Brooks Blvd in Yukon, OK. The rate is \$55/night (1 King, or 2 Queen sized beds, 1-2 persons). Thereis free breakfast, chocolate chip cookies and milk at night. Plan a vacation in Oklahoma City around the WTFDA ConventionÖwe have SO much to offer!

If you have internet access check John Zondlois Convention 2002 webpage at:

http://members.aol.com/fmdxweb/wtfda2002.html





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

FFEBRUARY 2002

Hello! How was your January? I hope vou didnít suffer with the flu and bronchitis like I did. It seemed that just about caught had something everyone in January. Speaking of icatchingi, I hope you were one of those who caught some of that TV Ch2 F2 back on December 29th and 30th. It was completely unexpected but very welcome even if we didnít get any positive Ids. And E skip even made the rounds once or twice. Evening skip was noted on January 4th (a Friday night) in many locations in the United States. But as of the middle of January rolled along we seemed to be back in the winter doldrums once more.

MEMBERS AND MORE

This time we say hello to some new folks. From Lexington, KY we welcome Girard Westerberg. Girard is an engineer for a bunch of C.C. stations in the area and has what must be the only website with a DX webcam available for immediate viewing anywhere on the internet. Next we say welcome back to Charles Gauthier from the Montreal area. Some of you may remember that Charles was with us back in the 80s. Heis back again and chomping at the bit to ID new NWS weather stations. And finally hi to Adam Rivers in Chicopee, MA . Adam is a youngster very interested in radio and Dxing.

Are have two new Associate Members this month. **Humberto Molina** of El Salvador is on our WTFDA list for the year as well as **Glen Hale** in Georgetown, KY. We now have 12 Associate Members on the WTFDA list.

Once again we have a bunch of renewals with dues received from Lenny Goldberg(OR), Ed Norris(IN), Melvyn Larson(MN), Bruce Hall(ON), Tom Yingling(MD), Gary Olson(FL), Lawrence Marecki(OH), Ken Onyschuk(IL), John Jefferson(WA), Jon Erdner(PA), Eldon Geiman(PA), Paul Hansen(MA) and Steve Chudoff(PA). Thank you all. Weire glad youire here!

THE CYCLE'S NOT OVER YET

The lead paragraph of **The 50mhz DX Bulletin** reads: iWhile Decemberis totals arenit quite as impressive as Novemberis, they are impressive. On the west coast of the USA in December and January of previous years the F2 layer DX almost went away. This year weive had almost daily openings to east coast USA. What will the spring bring us? Keep your fingers crossed. This solar cycleis not over yet.î So be prepared for F2 skip on ch2 again. You never know!

ROTORS AND MUCH MORE

Rich Wertman wants to tell you that he has just bought out 3 large west coast warehouses and he has *bargains, bargains and more bargains!* These bargains include antennas and associated electronics. And those of you who had rotors what went kablooey will be interested to know that Rich has found a bunch of CM 9515 RC rotors that are brand new. These include a box that has 99 programmable memories plus remote control. Richís price is \$139.95 plus shipping. You need to email Rich at **rwsvcinc@localnet.com** or write Rich at 6150 Crosby Road, Lockport, NY 14094.

HE'S GOT BRAGGING RIGHTS

Rick Shaftan has occasionally mentioned how good he thinks his RS STA-2280 is. Ed Hanlon recently found one on eBay and decided to find out how much hot air Rick was full of. Ed wrote Rick ìAfter a while I decided to ante up the big bucks for a 2280 off of eBay. I gave it to Don (Scott) for modsÖanyway the mods are doneÖand I spent most of yesterday afternoon doing tuner comparisons. The STA-2280 results? The is the best líve ever receiver/tuner seen.î So it appears that Rick has one heck of a tuner and that there was no hot air involved whatsoever.

Have a good February everyone, keep well and weill see you all next month -Mike



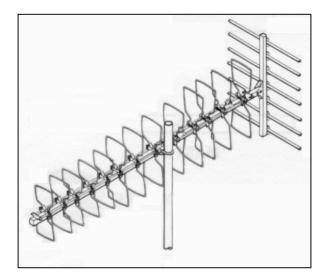
Q. What is a Passive Wave antenna and is one manufactured commercially?

A. This passive wave UHF antenna is really nothing new, though few people have ever heard of it. I want to say right now that this is a product that my company sells and will be prominently displayed on our website. That said...

This loop antenna has no driven elements, or you might say they're all driven elements. The boom is horizontal like a C/R yagi, containing descending size loops above and below the boom. A solid aluminum rod runs down both sides of the boom, coming close to but not touching the ends of each loop.

Unlike C/R yagis, the passive wave antenna has amazing bandwidth. I've installed several of these antennas, and shipped several more to customers, and everyone loves them. This antenna does not have the greatest F/B, it's around 20 dB, and that isn't bad. It's very light, and easy to stack. - Ed Hanlon

Specs and advantages of the U-92: 14 dBd gain, Front-To-Back Ratio: 17 dB, Impedance: 300 Ohms. Patented passive wave design allows more elements to effectively couple than standard designs. Conductive properties are sustained over time - corrosion is not a factor. Compact design allows for easier installation and adequate spacing from VHF antenna. More than one antenna may be stacked efficiently due to horizontal design. Low wind resistance compared to 4-bay, 8-bay and parabolic designs. Gain is maintained across the entire band (no other UHF antenna can make this claim)



The Passive Wave UHF Antenna

Q. What do I need to pick up those 1,000 mi Tropo ducts I read about?

A. A lot has to do with location. Since tropo is weather related, it helps to be in favorable locations ñ those with largely warm water paths are best. And flat land (plains) are also good during humid/stagnant weather. That is not to say it could not happen in your location. As for gear ñ I think youíd almost definitely need a highly directional yagi or parabolic dish to get much beyond 500-700 miles in your area. The reason is there are so many stations that youíd likely need to null out closer interference. And the higher you mount it, the better. Most long range tropo ducts are elevated ducts.



It happened Sunday morning, December 30, 2001, around 9 am. What began as a report of E skip in Kentucky on the WTFDA list began to turn into "the event" of December 30th.

I got out of bed around 8:30 AM and turned on the television looking the Weather Channel. I flipped the channel over to ch2 (WFSB-3) and right away I noticed some odd CCI on WFSB. This could only mean winter E skip. I went downstairs to watch off-air TV and punched in channel 2, which is usually empty unless WCBS is up. What I saw is something I donít see on ch2. Yes, this was skip, but was not the E skip we know so well. I turned on

the nearby computer and went to the Topica website to check the postings for reports of skip. Here is what I read:

At 9:15 AM EST - I'm seeing strong Es on channel 2. Seems to be coming from the south / southeast. Too much CCI to get any IDs. So far nothing higher than channel 2. Girard Westerberg Lexington, KY

0933 Funny you should mention F2 on ch2 Joe because da*n it looks like F2 to me..all smeary and the CCI is NOT like E skip. This is NOT your usual E skip. I noticed it on ch3 on cable a little while algo...very odd CCI and now I have it on my 13" Sanyo...but just ch2. Mike Bugaj - CT

0937I have Spanish(!) audio on ch2 right now. - MB

F2... I agree! There IS a picture there, but I'm not sure it's even NTSC. I've tried several different video modes, and still haven't been able to pull anything meaningful out of the mess yet. - GW

Hi Guys: Spanish on Channel 2 at 0945 EST.....Possible Childrens or Cartoon Show. Audio is Good at times..But Video is all messed up...... F2???? Doesn't look like a US Station to me????? 73...ROB. Robert S. Ross VA3SW

0955 This is intense. I had some video break thru and took some photos. Definitely two people standing...a logo in the lower center of the screen...extremely intense cci sometimes with 10 dark bars running across it. My upstairs tv..hooked to cable...has CCI on ch3 but not this tv. I love this. - MB

I'm not sure what the propagation mode is but 50MHz is WIDE OPEN to the Caribbean. P49MR, Aruba is bombing in on 50.190, WP4LNY Puerto Rico in well, and a station with a Latin American accent and an allergy to identifying on 50.257. I have the CCI on channel 2 as well. - Doug Smith, TN

Similar here with no audio on the ICOM although my gut is telling me it is a minus offset coming in here in NW NJ. - Rick Shaftan NJ

No audio on the Icom here either but I agree that it seems to be minus offset as something is ripping apart WGBH audio on that offset. - Keith McGinnis, MA

I have Es on 2 right now with Channel 2 being the only channel effected so far. Quite intense CCI for the last half hour or so. Hope this builds up into the other channels! -Aaron Mitterling, IN

10:55 Whatever this event turns out to be, it covers alot of territory. I get CCI from it when I aim at WGBH-2, start swinging back toward the south and it peaks South or just east of south, then finally begins to fade when I get to SW. I've had video, very smeary, ran out of film and found another roll. - MB

I've never seen F2 before, but this is a *weird* looking mess of lines I'm watching. Can't figure out which direction it peaks, as it seems to be strongest to my ENE... -Matt Sittel, NE

Pretty much the same experience here in Kentucky. The signal peaks when I'm aimed southeast (right at 120 degrees), but the peak is fairly broad. I've had pictures break through several times, and it looks like a rapidly changing assortment of signals. Right now I've got a guy singing and a female dancing. Best pix yet. There is a logo in the lower right hand corner, but I sure can't make it out. -GW

I agree, definately peaks at south very messy. - Bill Nollman, CT

Well, it's 11:10...and it's gone completely. I imagine Jeff K. had his TV on so I'm waiting for some analysis on this one. This opening was IMO mind boggling. - MB

I am copying---and calling without success!---SP9HRD in Poland on 50 MHz!!!! This is one hell of an opening! Harry Helms, CA

At 11:05 AM EST - Whatever it was suddenly vanished. I did capture a couple of frames which I'll post on www.DXFM.com. There isn't much to see, but perhaps someone out there might recognize the video. - GW

...but it stayed in until 1030 CT. The F2 stuff seemed to become regular skip, with ABC on 2 noted and then something almost due north that I couldn't ID, with phone number written at bottom of screen. Then that was completely gone right at 1030, almost like a light switch it was off. -Matt S.

The "funny CCI" mentioned was seen here as well, also only in channel 2. even though channel 3 is pretty much open here) The CCI was intense even with the antenna pointed southeast - right through my local. Es is rarely capable of that. Unfortunately the local guaranteed there would be no chance of identifying the TV signals. A F2propagated channel 2 carrier was heard on 55.25. (my local is on minus offset, 55.24) -Doug Smith

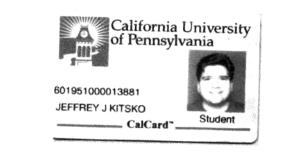
What a neat event! I caught the weird CCI and strong horizontal bars this AM too. Never got any audio except "noise" but saw really some difficult to make out video...almost underexposed or very dark. Definitely wasn't aurora. I have witnessed F2 on TV only one other time and that was back in early 1981. I think what I saw here today was probably F2 based on its fading, MUF, and non-American CCI and the posts I have been seeing. - Dan Oetting, MD

Anyway, had the same CCI here in WNY as everybody else did. It didn't really seem to have a "peak" direction, maybe SW or NW. Seemed to be in all directions. No picture or audio as the local CH2 is very strong. - Guy Falsetti, NY

Strong F2 today from TI, YV, P49, KP, HK,HP into central Ohio on 6 meters. Strongest I've seen in years. Also, strong Spanish station(briefly) on CH.2 at about 1545Z. No sign of any signals on CH.3. F2 gone by 1715Z. - Joe Perge, OH

Today has been one of those days that make you understand why you're in this crazy hobby! It was fun; the F2 was very localized to certain areas and the path "moved" southward and then to the north. -Harry Helms, CA

All of the web site descriptions I read describe F2 perfectly. If you take the reporter locations and draw two arcs on a map for each at 2,100 and 2,400 miles you should find intersections where different location arcs overlap. I suspect although I have not done this you will quickly see to the SE- for all involved - arcs that intersect from San Juan (channel 2) through Caracas (channel 2). Most would over the period of the event have had two or more ch 2 video stations received. The lack of antenna directivity is explained by two factors: (1) The signals were very strong, and more important, (2) the elevation angle of arrival was quite high ñin vicinity of 15 degrees up. Thus the directors and reflector on your antenna were NOT in line with the dipole/driven element and as you rotate the antenna they are simply "not there" which means it is the dipole alone that is doing the work (the signals were coming in on a plane higher than the director/reflectors so the dipole was "bare"). With so many Dxers participting and so much film being shot, I would expect our super sleuths to sort out which stations in short order! - Bob Cooper, NZ



ARE YOU IN SCHOOL? If you are, your membership dues are just \$15.00 a year!



Douglas E. Smith W9WI 1385 Old Clarksville Pike Pleasant View, TN 37146-8098 W9WI@w9wi.com http://www.w9wi.com

February 2002

Abb	previations:		
AF	Applied for (a new station)	PA	Proposed amendment to the table of allocations
CA	Class A status request/grant	PC	Power (or tower height) change on the air
CC	Call change	PG	Power (or tower height) change granted
CL	City-of-license change	PR	Power (or tower height) change requested
DE	Station deleted	QC	Channel change on the air
FC	Programming (format) change	QG	Channel change granted
GA	Granted amendment to the table of allocations	QR	Channel change requested
LC	License to cover (for changes or new station)	SI	Off the air ("silent")
NO	Not on the air	XC	Transmitter site change on the air
NS	New station granted permit	XG	Transmitter site change granted
NW	New station on the air	XR	Transmitter

News:

INEWS:					
<u>Alaska:</u>			Joshua Tree	17 K57EV	QR from ch. 57, 0.11kw
Bethel	25 K25HK	NS 0.62kw,	Joshua Tree	21 K59BM	QR from ch. 21
		60-47-33/161-46-22, KYES-5	Lompoc	10 K10OG	FC to Telefutura
Fairbanks	24 KUAC-DT	NS 69kw/163m	Modesto	27 KEXT-CA	FC to Telefutura
Homer	7 K07PF	PG>3kw,	1110000000	2, 112111 011	
Tiomer	/ 10/11	59-27-15/151-40-26	California:		
Innean	6 KTOO-DT	NS 0.75kw/-324m	Monterey	23 K23EW	LC 50kw,
Juneau			Monterey	23 KZJEW	
Ketchikan	25 KJMW-LP	to go SI after the Super Bowl			36-45-23/121-30-05,
Kodiak	11 K11UQ	XG 57-48-04/152-22-55	0.D.T. 1		KSMS-67 Univision
			O'Neals	66 KHSC-LP	CC from K66CQ
<u>Alabama:</u>			Ontario	46 KFTR	FC to Telefutura
Birmingham	30 WIAT-DT	PR>426m	Palm Springs	5 KEVC-LP	FC to Telefutura
		33-29-04/86-48-25	Palo Alto	56 K56BR	FC - sold to NBC
Dothan	25 WDOL-LP	PR>150kw,	Paso Robles	21 K21EX	FC to Telefutura
		31-13-40/85-21-06; CC from	Reedley	13 KCWB-LP	LC for PG>3kw,
		W25CX	•		36-44-45/119-16-57
Arkansas:			Sacramento	49 KSAO-LP	LC for PG>7.34kw,
Little Rock	5 KETS-DT	QG from ch. 47,			38-33-59/121-28-43
2	• 11110 21	2.1kw/531m	Sacramento	60 KSTV-LP	QG from ch. 53, 43kw
Little Rock	20 KKYK-LP	PG>150kw	San Diego	10 KGTV	LC for PG>229m,
Mountain View		QG from ch. 35,	San Diego	IV KOI V	directional antenna
With the w		20kw/407m	San Diego	15 KPBS	LC for PG>3310kw
Noumort	27 K27GU	NS 10kw, 35-40-04/91-14-57	San Jose	13 KI BS 11 KNTV	FC - sold to NBC
Newport					
Prescott	19 KBZZ-LP	QG from ch. 13, 28kw,	San Luis Obispo		QG from ch. 15, 39.9kw
		33-25-45/94-07-11 in	San Luis Obispo		FC to Telefutura
		Texarkana. Transmitter may	Santa Barbara	29 KTSB-LP	FC to Telefutura
		be in Texas.	Santa Maria	35 K35ER-CA	FC to Telefutura
		be in Texas.			
Arizona:			Vallejo	66 KFSF-TV	FC to Telefutura; CC from
Douglas	3 KBGF	FC to Univision	Vallejo	66 KFSF-TV	FC to Telefutura; CC from KPST-TV
	3 KBGF 13 KDUO	FC to Univision FC to Telefutura; CC to			FC to Telefutura; CC from
Douglas Flagstaff	13 KDUO	FC to Univision FC to Telefutura; CC to KFPH	Vallejo Victorville	66 KFSF-TV	FC to Telefutura; CC from KPST-TV
Douglas Flagstaff Many Farms	13 KDUO 49 K49ET	FC to Univision FC to Telefutura; CC to	Vallejo	66 KFSF-TV	FC to Telefutura; CC from KPST-TV
Douglas Flagstaff	13 KDUO	FC to Univision FC to Telefutura; CC to KFPH	Vallejo Victorville	66 KFSF-TV	FC to Telefutura; CC from KPST-TV
Douglas Flagstaff Many Farms	13 KDUO 49 K49ET	FC to Univision FC to Telefutura; CC to KFPH QC from K69AF, 4.07kw	Vallejo Victorville <u>Colorado:</u>	66 KFSF-TV 49 K49GN	FC to Telefutura; CC from KPST-TV QG from ch. 47, 964w
Douglas Flagstaff Many Farms Phoenix	13 KDUO49 K49ET17 KPHO-DT	FC to Univision FC to Telefutura; CC to KFPH QC from K69AF, 4.07kw PR>940kw	Vallejo Victorville <u>Colorado:</u>	66 KFSF-TV 49 K49GN	FC to Telefutura; CC from KPST-TV QG from ch. 47, 964w LC for QG from ch. 24, <0.48kw,
Douglas Flagstaff Many Farms Phoenix Phoenix	 13 KDUO 49 K49ET 17 KPHO-DT 39 KOND-LP 	FC to Univision FC to Telefutura; CC to KFPH QC from K69AF, 4.07kw PR>940kw FC to Telefutura	Vallejo Victorville <u>Colorado:</u>	66 KFSF-TV 49 K49GN 45 K45FD	FC to Telefutura; CC from KPST-TV QG from ch. 47, 964w LC for QG from ch. 24, <0.48kw, -38
Douglas Flagstaff Many Farms Phoenix Phoenix Phoenix	13 KDUO 49 K49ET 17 KPHO-DT 39 KOND-LP 43 K43GV	FC to Univision FC to Telefutura; CC to KFPH QC from K69AF, 4.07kw PR>940kw FC to Telefutura QC from K31DI, 13kw PG>23.6kw	Vallejo Victorville <u>Colorado:</u> Anton	 66 KFSF-TV 49 K49GN 45 K45FD 39-51-17/103-20 	FC to Telefutura; CC from KPST-TV QG from ch. 47, 964w LC for QG from ch. 24, <0.48kw,
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Douglas Flagstaff Many Farms Phoenix Phoenix Phoenix Phoenix Tucson	13 KDUO 49 K49ET 17 KPHO-DT 39 KOND-LP 43 K43GV 58 KPHZ-LP 64 KTVP-LP	FC to Univision FC to Telefutura; CC to KFPH QC from K69AF, 4.07kw PR>940kw FC to Telefutura QC from K31DI, 13kw PG>23.6kw PG>45kw, 33-19-58/112-03-59	Vallejo Victorville <u>Colorado:</u> Anton Anton	 66 KFSF-TV 49 K49GN 45 K45FD 39-51-17/103-20 47 K47FT 49 K49EX 	FC to Telefutura; CC from KPST-TV QG from ch. 47, 964w LC for QG from ch. 24, <0.48kw, -38 LC for QG from ch. 26, <0.48kw, 39-51-17/103-20-38 LC for QG from ch. 28, <0.48kw,
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DouglasFlagstaffMany FarmsPhoenixPhoenixPhoenixPhoenixPhoenixTucsonCalifornia:Bakersfield	13 KDUO 49 K49ET 17 KPHO-DT 39 KOND-LP 43 K43GV 58 KPHZ-LP 64 KTVP-LP 25 KTAZ-LP 4 KMMB-LP	FC to Univision FC to Telefutura; CC to KFPH QC from K69AF, 4.07kw PR>940kw FC to Telefutura QC from K31DI, 13kw PG>23.6kw PG>45kw, 33-19-58/112-03-59 FC to KBGF-3 (Univision) FC to Telefutura	Vallejo Victorville <u>Colorado:</u> Anton Anton	 66 KFSF-TV 49 K49GN 45 K45FD 39-51-17/103-20 47 K47FT 49 K49EX 	FC to Telefutura; CC from KPST-TV QG from ch. 47, 964w LC for QG from ch. 24, <0.48kw, -38 LC for QG from ch. 26, <0.48kw, 39-51-17/103-20-38 LC for QG from ch. 28, <0.48kw, -38 LC for QG from ch. 30,
Douglas Flagstaff Many Farms Phoenix Phoenix Phoenix Phoenix Tucson California: Bakersfield Bakersfield	13 KDUO 49 K49ET 17 KPHO-DT 39 KOND-LP 43 K43GV 58 KPHZ-LP 64 KTVP-LP 25 KTAZ-LP 4 KMMB-LP 52 KSUV-LP	FC to Univision FC to Telefutura; CC to KFPH QC from K69AF, 4.07kw PR>940kw FC to Telefutura QC from K31DI, 13kw PG>23.6kw PG>45kw, 33-19-58/112-03-59 FC to KBGF-3 (Univision) FC to Telefutura FC to Telefutura	Vallejo Victorville Colorado: Anton Anton Anton Anton	 66 KFSF-TV 49 K49GN 45 K45FD 39-51-17/103-20 47 K47FT 49 K49EX 39-51-17/103-20 55 K55IB 	FC to Telefutura; CC from KPST-TV QG from ch. 47, 964w LC for QG from ch. 24, <0.48kw, -38 LC for QG from ch. 26, <0.48kw, 39-51-17/103-20-38 LC for QG from ch. 28, <0.48kw, -38 LC for QG from ch. 30, 0.48kw, 39-51-17/103-20-38
DouglasFlagstaffMany FarmsPhoenixPhoenixPhoenixPhoenixPhoenixTucsonCalifornia:Bakersfield	13 KDUO 49 K49ET 17 KPHO-DT 39 KOND-LP 43 K43GV 58 KPHZ-LP 64 KTVP-LP 25 KTAZ-LP 4 KMMB-LP	FC to Univision FC to Telefutura; CC to KFPH QC from K69AF, 4.07kw PR>940kw FC to Telefutura QC from K31DI, 13kw PG>23.6kw PG>45kw, 33-19-58/112-03-59 FC to KBGF-3 (Univision) FC to Telefutura FC to Telefutura FC to Telefutura LC 0.99kw,	Vallejo Victorville Colorado: Anton Anton Anton Anton Denver	 66 KFSF-TV 49 K49GN 45 K45FD 39-51-17/103-20 47 K47FT 49 K49EX 39-51-17/103-20 55 K55IB 35 KCNC-DT 	FC to Telefutura; CC from KPST-TV QG from ch. 47, 964w LC for QG from ch. 24, <0.48kw, -38 LC for QG from ch. 26, <0.48kw, 39-51-17/103-20-38 LC for QG from ch. 28, <0.48kw, -38 LC for QG from ch. 30, 0.48kw, 39-51-17/103-20-38 NW, 490kw/452m
Douglas Flagstaff Many Farms Phoenix Phoenix Phoenix Phoenix Tucson California: Bakersfield Bakersfield Blythe	 13 KDUO 49 K49ET 17 KPHO-DT 39 KOND-LP 43 K43GV 58 KPHZ-LP 64 KTVP-LP 25 KTAZ-LP 4 KMMB-LP 52 KSUV-LP 31 K31FE 	FC to Univision FC to Telefutura; CC to KFPH QC from K69AF, 4.07kw PR>940kw FC to Telefutura QC from K31DI, 13kw PG>23.6kw PG>45kw, 33-19-58/112-03-59 FC to KBGF-3 (Univision) FC to Telefutura FC to Telefutura FC to Telefutura LC 0.99kw, 33-34-12/114-20-56, KPHO-5	Vallejo Victorville Colorado: Anton Anton Anton Anton Denver	 66 KFSF-TV 49 K49GN 45 K45FD 39-51-17/103-20 47 K47FT 49 K49EX 39-51-17/103-20 55 K55IB 	FC to Telefutura; CC from KPST-TV QG from ch. 47, 964w LC for QG from ch. 24, <0.48kw, -38 LC for QG from ch. 26, <0.48kw, 39-51-17/103-20-38 LC for QG from ch. 28, <0.48kw, -38 LC for QG from ch. 30, 0.48kw, 39-51-17/103-20-38 NW, 490kw/452m CC from KUVC-LP; FC to
DouglasFlagstaffMany FarmsPhoenixPhoenixPhoenixPhoenixPhoenixTucsonCalifornia:BakersfieldBakersfieldBlytheChico	13 KDUO 49 K49ET 17 KPHO-DT 39 KOND-LP 43 K43GV 58 KPHZ-LP 64 KTVP-LP 25 KTAZ-LP 4 KMMB-LP 52 KSUV-LP 31 K31FE 28 KKPM-CA	FC to Univision FC to Telefutura; CC to KFPH QC from K69AF, 4.07kw PR>940kw FC to Telefutura QC from K31DI, 13kw PG>23.6kw PG>45kw, 33-19-58/112-03-59 FC to KBGF-3 (Univision) FC to Telefutura FC to Telefutura FC to Telefutura LC 0.99kw, 33-34-12/114-20-56, KPHO-5 PR>150kw	Vallejo Victorville Colorado: Anton Anton Anton Anton Denver Denver	 66 KFSF-TV 49 K49GN 45 K45FD 39-51-17/103-20 47 K47FT 49 K49EX 39-51-17/103-20 55 K55IB 35 KCNC-DT 43 KTFD-LP 	FC to Telefutura; CC from KPST-TV QG from ch. 47, 964w LC for QG from ch. 24, <0.48kw, -38 LC for QG from ch. 26, <0.48kw, 39-51-17/103-20-38 LC for QG from ch. 28, <0.48kw, -38 LC for QG from ch. 30, 0.48kw, 39-51-17/103-20-38 NW, 490kw/452m CC from KUVC-LP; FC to Telefutura
DouglasFlagstaffMany FarmsPhoenixPhoenixPhoenixPhoenixPhoenixTucsonCalifornia:BakersfieldBakersfieldBlytheChicoConcord	13 KDUO 49 K49ET 17 KPHO-DT 39 KOND-LP 43 K43GV 58 KPHZ-LP 64 KTVP-LP 25 KTAZ-LP 4 KMMB-LP 52 KSUV-LP 31 K31FE 28 KKPM-CA 42 KTNC-TV	FC to Univision FC to Telefutura; CC to KFPH QC from K69AF, 4.07kw PR>940kw FC to Telefutura QC from K31DI, 13kw PG>23.6kw PG>45kw, 33-19-58/112-03-59 FC to KBGF-3 (Univision) FC to Telefutura FC to Telefutura LC 0.99kw, 33-34-12/114-20-56, KPHO-5 PR>150kw FC to Azteca America	Vallejo Victorville Colorado: Anton Anton Anton Anton Anton Denver Denver Durango	 66 KFSF-TV 49 K49GN 45 K45FD 39-51-17/103-20 47 K47FT 49 K49EX 39-51-17/103-20 55 K55IB 35 KCNC-DT 43 KTFD-LP 20 KRMU 	FC to Telefutura; CC from KPST-TV QG from ch. 47, 964w LC for QG from ch. 24, <0.48kw, -38 LC for QG from ch. 26, <0.48kw, 39-51-17/103-20-38 LC for QG from ch. 28, <0.48kw, -38 LC for QG from ch. 30, 0.48kw, 39-51-17/103-20-38 NW, 490kw/452m CC from KUVC-LP; FC to Telefutura CC (new)
DouglasFlagstaffMany FarmsPhoenixPhoenixPhoenixPhoenixPhoenixTucsonCalifornia:BakersfieldBakersfieldBlytheChico	13 KDUO 49 K49ET 17 KPHO-DT 39 KOND-LP 43 K43GV 58 KPHZ-LP 64 KTVP-LP 25 KTAZ-LP 4 KMMB-LP 52 KSUV-LP 31 K31FE 28 KKPM-CA	FC to Univision FC to Telefutura; CC to KFPH QC from K69AF, 4.07kw PR>940kw FC to Telefutura QC from K31DI, 13kw PG>23.6kw PG>45kw, 33-19-58/112-03-59 FC to KBGF-3 (Univision) FC to Telefutura FC to Telefutura LC 0.99kw, 33-34-12/114-20-56, KPHO-5 PR>150kw FC to Azteca America PR>907m,	Vallejo Victorville Colorado: Anton Anton Anton Anton Denver Denver	 66 KFSF-TV 49 K49GN 45 K45FD 39-51-17/103-20 47 K47FT 49 K49EX 39-51-17/103-20 55 K55IB 35 KCNC-DT 43 KTFD-LP 	FC to Telefutura; CC from KPST-TV QG from ch. 47, 964w LC for QG from ch. 24, <0.48kw, -38 LC for QG from ch. 26, <0.48kw, 39-51-17/103-20-38 LC for QG from ch. 28, <0.48kw, -38 LC for QG from ch. 30, 0.48kw, 39-51-17/103-20-38 NW, 490kw/452m CC from KUVC-LP; FC to Telefutura
Douglas Flagstaff Many Farms Phoenix Phoenix Phoenix Phoenix Tucson California: Bakersfield Bakersfield Blythe Chico Concord Corona	 13 KDUO 49 K49ET 17 KPHO-DT 39 KOND-LP 43 K43GV 58 KPHZ-LP 64 KTVP-LP 25 KTAZ-LP 4 KMMB-LP 52 KSUV-LP 31 K31FE 28 KKPM-CA 42 KTNC-TV 52 KVEA 	FC to Univision FC to Telefutura; CC to KFPH QC from K69AF, 4.07kw PR>940kw FC to Telefutura QC from K31DI, 13kw PG>23.6kw PG>45kw, 33-19-58/112-03-59 FC to KBGF-3 (Univision) FC to Telefutura FC to Telefutura LC 0.99kw, 33-34-12/114-20-56, KPHO-5 PR>150kw FC to Azteca America PR>907m, 34-12-48/118-03-41	Vallejo Victorville Colorado: Anton Anton Anton Anton Anton Denver Denver Durango	 66 KFSF-TV 49 K49GN 45 K45FD 39-51-17/103-20 47 K47FT 49 K49EX 39-51-17/103-20 55 K55IB 35 KCNC-DT 43 KTFD-LP 20 KRMU 	FC to Telefutura; CC from KPST-TV QG from ch. 47, 964w LC for QG from ch. 24, <0.48kw, -38 LC for QG from ch. 26, <0.48kw, 39-51-17/103-20-38 LC for QG from ch. 28, <0.48kw, -38 LC for QG from ch. 30, 0.48kw, 39-51-17/103-20-38 NW, 490kw/452m CC from KUVC-LP; FC to Telefutura CC (new) QG from ch. 17, 25kw
DouglasFlagstaffMany FarmsPhoenixPhoenixPhoenixPhoenixPhoenixTucsonCalifornia:BakersfieldBakersfieldBlytheChicoConcord	13 KDUO 49 K49ET 17 KPHO-DT 39 KOND-LP 43 K43GV 58 KPHZ-LP 64 KTVP-LP 25 KTAZ-LP 4 KMMB-LP 52 KSUV-LP 31 K31FE 28 KKPM-CA 42 KTNC-TV	FC to Univision FC to Telefutura; CC to KFPH QC from K69AF, 4.07kw PR>940kw FC to Telefutura QC from K31DI, 13kw PG>23.6kw PG>45kw, 33-19-58/112-03-59 FC to KBGF-3 (Univision) FC to Telefutura FC to Telefutura LC 0.99kw, 33-34-12/114-20-56, KPHO-5 PR>150kw FC to Azteca America PR>907m,	Vallejo Victorville Colorado: Anton Anton Anton Anton Anton Denver Denver Durango	 66 KFSF-TV 49 K49GN 45 K45FD 39-51-17/103-20 47 K47FT 49 K49EX 39-51-17/103-20 55 K55IB 35 KCNC-DT 43 KTFD-LP 20 KRMU 	FC to Telefutura; CC from KPST-TV QG from ch. 47, 964w LC for QG from ch. 24, <0.48kw, -38 LC for QG from ch. 26, <0.48kw, 39-51-17/103-20-38 LC for QG from ch. 28, <0.48kw, -38 LC for QG from ch. 30, 0.48kw, 39-51-17/103-20-38 NW, 490kw/452m CC from KUVC-LP; FC to Telefutura CC (new)

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Idalia	26 K26FP	LC for QG from ch. 52, 0.57kw, 39-43-50/102-28-56	Magga ahuga 44a.		
Idalia	28 K28FX	LC for QG from ch. 54, 0.57kw, 39-43-50/102-28-56	<u>Massachusetts:</u> Marlborough	66 WUTF	CC from WFUB; FC to Telefutura
Peetz	32 K32EX	LC for QG from ch. 60, 0.74kw, 40-53-31/103-13-45	<u>Maryland:</u> Salisbury	49 new-LP	app dismissed
Sterling	44 K44FL	PG<0.45kw; LC			
Sterling	48 K48DQ	PG<0.45kw; LC	Maine:	15 110 1 0 1 0	
Sterling	50 K50EE 52 K52EW	PG<0.45kw; LC PG<0.45kw; LC	Portland Doutland	15 WLLB-LP	CC from WLOB-LP
Sterling	52 K52EW	PG<0.45kw; LC	Portland	32 W32CA	PR>25kw, 43-44-38/70-20-05
Colorado:			Michigan:		13 11 30/10 20 03
Wray	46 K46FF	LC for QG ch. 58, 0.62kw	Bay City	22 WNEM-DT	PR>960kw/275m
Wray	48 K48GA	LC for QG ch. 60, 0.62kw	Crystal	36 W36CW	QG from ch. 51, 539w
Wray	50 K50FJ	LC for QG ch. 62, 0.62kw	Crystal Falls	25 WUPT-CA	QR from ch. 9, 120.7kw
Wray	52 K52FZ	LC for QG ch. 64, 0.62kw	Houghton Lake	22 W24CG	QR from ch. 24, 47.6kw, 42-25-13/84-31-25 between
Connecticut:					Lansing and Jackson
Hartford	47 WUTH-CA	CC from W47AD; FC to	Houghton Lake	26 W67DN	QR from ch. 67, 100kw,
		Telefutura	C		43-13-48/86-05-03 near
<u>Florida:</u>					Muskegon
Bradenton	18 WSVT-LP	PG>50kw,	Houghton Lake	49 W21BS	QR from ch. 21, 45kw,
Corol Springs	44 WHDT-LP	27-56-48/82-27-26 QG from ch. 55, 15kw,			42-17-17/85-09-54 near Battle Creek
Coral Springs	44 WHD1-LP	25-58-15/80-12-32	Lansing	6 WLNS-TV	LC for XG
Flemington	56 new-LP	app dismissed	Lansing	0 00 110-1 0	42-41-19/84-22-35 & drop
Gainesville	45 WYPN-CA	PR>50kw,			directional antenna
		29-32-05/82-19-12	Lansing	59 WLNS-DT	NW, 1000kw/288m
Hollywood	69 WAMI	FC to Telefutura	Sault Ste. Marie	48 W48BZ	PR>10kw,
Jacksonville	19 WTEV-DT	PR>291m,			42-16-41/83-44-41
Jacksonville	27 WWRJ-LP	30-16-51/81-34-12 LC for QG fm ch 38, 11.9kw	Traverse City	25 W25CU	near Ann Arbor LC for QG from ch. 19,
Jacksonville	42 WJXT-DT	PG>294m, directional	Traverse City	25 W25CU	44-45-22/85-40-42
Jupiter	53 W53BS	FC to Telefutura	Traverse City	54 W54CR	PR>30.45kw
Melbourne	43 WFUO	FC to Telefutura	2		
Sebring	17 WOCX-CA	QG from ch. 5, 27.5kw	Minnesota:		
St. Petersburg	33 W33CC	QG from W24BF,	Alexandria	44 K44GH	NS, 0.65kw,
-		27-50-53/82-45-48			45-52-40/95-22-44, 3Abn
Tompo		FC to Tolofuturo	Romidii	11 now ID	ann dismissed
Tampa W. Palm Beach	50 WFTT 55 WPTV-DT	FC to Telefutura PG>900kw/387m.	Bemidji Brainerd	44 new-LP 48 new-LP	app dismissed
Tampa W. Palm Beach		FC to Telefutura PG>900kw/387m, directional	Bemidji Brainerd Brainerd	44 new-LP 48 new-LP 51 new-LP	app dismissed app dismissed app dismissed
		PG>900kw/387m,	Brainerd	48 new-LP	app dismissed app dismissed PR<0.5kw,
W. Palm Beach Williston	55 WPTV-DT	PG>900kw/387m, directional	Brainerd Brainerd Grand Marais	48 new-LP 51 new-LP 63 K63BI	app dismissed app dismissed PR<0.5kw, 47-46-04/90-20-47
W. Palm Beach Williston <u>Georgia:</u>	55 WPTV-DT 60 new-LP	PG>900kw/387m, directional app dismissed	Brainerd Brainerd Grand Marais Redwood Falls	48 new-LP 51 new-LP 63 K63BI 46 K15CE	app dismissed app dismissed PR<0.5kw, 47-46-04/90-20-47 QC from ch. 15, 1.49kw
W. Palm Beach Williston	55 WPTV-DT	PG>900kw/387m, directional	Brainerd Brainerd Grand Marais Redwood Falls Redwood Falls	48 new-LP 51 new-LP 63 K63BI 46 K15CE 48 K21DJ	app dismissed app dismissed PR<0.5kw, 47-46-04/90-20-47 QC from ch. 15, 1.49kw QC from ch. 21, 1.48kw
W. Palm Beach Williston <u>Georgia:</u>	55 WPTV-DT 60 new-LP	PG>900kw/387m, directional app dismissed	Brainerd Brainerd Grand Marais Redwood Falls	48 new-LP 51 new-LP 63 K63BI 46 K15CE	app dismissed app dismissed PR<0.5kw, 47-46-04/90-20-47 QC from ch. 15, 1.49kw
W. Palm Beach Williston <u>Georgia:</u> Athens	55 WPTV-DT 60 new-LP	PG>900kw/387m, directional app dismissed FC to Univision NW, 26kw, 41-28-29/90-26-	Brainerd Brainerd Grand Marais Redwood Falls Redwood Falls Redwood Falls	48 new-LP 51 new-LP 63 K63BI 46 K15CE 48 K21DJ 52 K25DN	app dismissed app dismissed PR<0.5kw, 47-46-04/90-20-47 QC from ch. 15, 1.49kw QC from ch. 21, 1.48kw QC from ch. 25, 1.46kw
W. Palm Beach Williston <u>Georgia:</u> Athens <u>Iowa:</u> Davenport	55 WPTV-DT 60 new-LP 34 WUVG	PG>900kw/387m, directional app dismissed FC to Univision	Brainerd Brainerd Grand Marais Redwood Falls Redwood Falls Redwood Falls Redwood Falls Rochester	48 new-LP 51 new-LP 63 K63BI 46 K15CE 48 K21DJ 52 K25DN 54 K34DB	app dismissed app dismissed PR<0.5kw, 47-46-04/90-20-47 QC from ch. 15, 1.49kw QC from ch. 21, 1.48kw QC from ch. 25, 1.46kw QC from ch. 34, 1.46kw
W. Palm Beach Williston <u>Georgia:</u> Athens <u>Iowa:</u> Davenport <u>Idaho:</u>	 55 WPTV-DT 60 new-LP 34 WUVG 26 WBQD-LP 	PG>900kw/387m, directional app dismissed FC to Univision NW, 26kw, 41-28-29/90-26- 45. Testing with color bars.	Brainerd Brainerd Grand Marais Redwood Falls Redwood Falls Redwood Falls Redwood Falls Rochester <u>Missouri:</u>	48 new-LP 51 new-LP 63 K63BI 46 K15CE 48 K21DJ 52 K25DN 54 K34DB 58 K58GC	app dismissed app dismissed PR<0.5kw, 47-46-04/90-20-47 QC from ch. 15, 1.49kw QC from ch. 21, 1.48kw QC from ch. 25, 1.46kw QC from ch. 34, 1.46kw PR<29kw
W. Palm Beach Williston <u>Georgia:</u> Athens <u>Iowa:</u> Davenport	55 WPTV-DT 60 new-LP 34 WUVG	 PG>900kw/387m, directional app dismissed FC to Univision NW, 26kw, 41-28-29/90-26- 45. Testing with color bars. QG from K10MY, 23.4kw, 	Brainerd Brainerd Grand Marais Redwood Falls Redwood Falls Redwood Falls Redwood Falls Rochester <u>Missouri:</u> Branson	48 new-LP 51 new-LP 63 K63BI 46 K15CE 48 K21DJ 52 K25DN 54 K34DB 58 K58GC 17 K17DL	app dismissed app dismissed PR<0.5kw, 47-46-04/90-20-47 QC from ch. 15, 1.49kw QC from ch. 21, 1.48kw QC from ch. 25, 1.46kw QC from ch. 34, 1.46kw PR<29kw
W. Palm Beach Williston <u>Georgia:</u> Athens <u>Iowa:</u> Davenport <u>Idaho:</u>	 55 WPTV-DT 60 new-LP 34 WUVG 26 WBQD-LP 	PG>900kw/387m, directional app dismissed FC to Univision NW, 26kw, 41-28-29/90-26- 45. Testing with color bars.	Brainerd Brainerd Grand Marais Redwood Falls Redwood Falls Redwood Falls Redwood Falls Rochester <u>Missouri:</u>	48 new-LP 51 new-LP 63 K63BI 46 K15CE 48 K21DJ 52 K25DN 54 K34DB 58 K58GC	app dismissed app dismissed PR<0.5kw, 47-46-04/90-20-47 QC from ch. 15, 1.49kw QC from ch. 21, 1.48kw QC from ch. 25, 1.46kw QC from ch. 34, 1.46kw PR<29kw
W. Palm Beach Williston <u>Georgia:</u> Athens <u>Iowa:</u> Davenport <u>Idaho:</u> Boise Boise	 55 WPTV-DT 60 new-LP 34 WUVG 26 WBQD-LP 20 K20GS 28 KBCI-DT 	PG>900kw/387m, directional app dismissed FC to Univision NW, 26kw, 41-28-29/90-26- 45. Testing with color bars. QG from K10MY, 23.4kw, 43-44-23/116-08-14 PR<89kw/858m, 43-45-21/116-05-54	Brainerd Brainerd Grand Marais Redwood Falls Redwood Falls Redwood Falls Redwood Falls Rochester <u>Missouri:</u> Branson Jefferson City Joplin	48 new-LP 51 new-LP 63 K63BI 46 K15CE 48 K21DJ 52 K25DN 54 K34DB 58 K58GC 17 K17DL 20 KNLJ-DT 30 KCLJ-LP	app dismissed app dismissed PR<0.5kw, 47-46-04/90-20-47 QC from ch. 15, 1.49kw QC from ch. 21, 1.48kw QC from ch. 25, 1.46kw QC from ch. 34, 1.46kw PR<29kw sold to KYTV-3 PG<12kw QR from ch. 46, 140.8kw, 37-03-10/94-23-20
W. Palm Beach Williston Georgia: Athens Iowa: Davenport Idaho: Boise Boise Coeur d'Alene	55 WPTV-DT 60 new-LP 34 WUVG 26 WBQD-LP 20 K20GS 28 KBCI-DT 38 K20EM	PG>900kw/387m, directional app dismissed FC to Univision NW, 26kw, 41-28-29/90-26- 45. Testing with color bars. QG from K10MY, 23.4kw, 43-44-23/116-08-14 PR<89kw/858m, 43-45-21/116-05-54 QR from ch. 20, 12kw	Brainerd Brainerd Grand Marais Redwood Falls Redwood Falls Redwood Falls Redwood Falls Rochester <u>Missouri:</u> Branson Jefferson City Joplin Kansas City	48 new-LP 51 new-LP 63 K63BI 46 K15CE 48 K21DJ 52 K25DN 54 K34DB 58 K58GC 17 K17DL 20 KNLJ-DT 30 KCLJ-LP 24 KCTV-DT	app dismissed app dismissed PR<0.5kw, 47-46-04/90-20-47 QC from ch. 15, 1.49kw QC from ch. 21, 1.48kw QC from ch. 25, 1.46kw QC from ch. 34, 1.46kw PR<29kw sold to KYTV-3 PG<12kw QR from ch. 46, 140.8kw, 37-03-10/94-23-20 PR>820kw
 W. Palm Beach Williston Georgia: Athens Jowa: Davenport Idaho: Boise Boise Coeur d'Alene Coolin 	55 WPTV-DT 60 new-LP 34 WUVG 26 WBQD-LP 20 K20GS 28 KBCI-DT 38 K20EM 39 K08JH	PG>900kw/387m, directional app dismissed FC to Univision NW, 26kw, 41-28-29/90-26- 45. Testing with color bars. QG from K10MY, 23.4kw, 43-44-23/116-08-14 PR<89kw/858m, 43-45-21/116-05-54 QR from ch. 20, 12kw QR from ch. 8, 1.13kw	Brainerd Brainerd Grand Marais Redwood Falls Redwood Falls Redwood Falls Redwood Falls Redwood Falls Rochester <u>Missouri:</u> Branson Jefferson City Joplin Kansas City Kansas City	48 new-LP 51 new-LP 63 K63BI 46 K15CE 48 K21DJ 52 K25DN 54 K34DB 58 K58GC 17 K17DL 20 KNLJ-DT 30 KCLJ-LP 24 KCTV-DT 31 KCWE-DT	app dismissed app dismissed PR<0.5kw, 47-46-04/90-20-47 QC from ch. 15, 1.49kw QC from ch. 21, 1.48kw QC from ch. 25, 1.46kw QC from ch. 34, 1.46kw PR<29kw sold to KYTV-3 PG<12kw QR from ch. 46, 140.8kw, 37-03-10/94-23-20 PR>820kw PG<332m
W. Palm Beach Williston Georgia: Athens Jovenport Javenport Idaho: Boise Boise Coeur d'Alene Coolin Nampa	55 WPTV-DT 60 new-LP 34 WUVG 26 WBQD-LP 20 K20GS 28 KBCI-DT 38 K20EM 39 K08JH 6 KIVI	PG>900kw/387m, directional app dismissed FC to Univision NW, 26kw, 41-28-29/90-26- 45. Testing with color bars. QG from K10MY, 23.4kw, 43-44-23/116-08-14 PR<89kw/858m, 43-45-21/116-05-54 QR from ch. 20, 12kw QR from ch. 8, 1.13kw LC for PG<51.8kw/858m	Brainerd Brainerd Grand Marais Redwood Falls Redwood Falls Redwood Falls Redwood Falls Redwood Falls Rochester <u>Missouri:</u> Branson Jefferson City Joplin Kansas City Kansas City Kansas City	48 new-LP 51 new-LP 63 K63BI 46 K15CE 48 K21DJ 52 K25DN 54 K34DB 58 K58GC 17 K17DL 20 KNLJ-DT 30 KCLJ-LP 24 KCTV-DT 31 KCWE-DT 62 KSMO-TV	app dismissed app dismissed PR<0.5kw, 47-46-04/90-20-47 QC from ch. 15, 1.49kw QC from ch. 21, 1.48kw QC from ch. 25, 1.46kw QC from ch. 34, 1.46kw PR<29kw sold to KYTV-3 PG<12kw QR from ch. 46, 140.8kw, 37-03-10/94-23-20 PR>820kw PG<332m PG>5000kw
 W. Palm Beach Williston Georgia: Athens Jowa: Davenport Idaho: Boise Boise Coeur d'Alene Coolin 	55 WPTV-DT 60 new-LP 34 WUVG 26 WBQD-LP 20 K20GS 28 KBCI-DT 38 K20EM 39 K08JH	PG>900kw/387m, directional app dismissed FC to Univision NW, 26kw, 41-28-29/90-26- 45. Testing with color bars. QG from K10MY, 23.4kw, 43-44-23/116-08-14 PR<89kw/858m, 43-45-21/116-05-54 QR from ch. 20, 12kw QR from ch. 8, 1.13kw	Brainerd Brainerd Grand Marais Redwood Falls Redwood Falls Redwood Falls Redwood Falls Redwood Falls Rochester <u>Missouri:</u> Branson Jefferson City Joplin Kansas City Kansas City	48 new-LP 51 new-LP 63 K63BI 46 K15CE 48 K21DJ 52 K25DN 54 K34DB 58 K58GC 17 K17DL 20 KNLJ-DT 30 KCLJ-LP 24 KCTV-DT 31 KCWE-DT	app dismissed app dismissed PR<0.5kw, 47-46-04/90-20-47 QC from ch. 15, 1.49kw QC from ch. 21, 1.48kw QC from ch. 25, 1.46kw QC from ch. 34, 1.46kw PR<29kw sold to KYTV-3 PG<12kw QR from ch. 46, 140.8kw, 37-03-10/94-23-20 PR>820kw PG<332m PG>5000kw QG from ch. 68, 0.743kw,
W. Palm Beach Williston Georgia: Athens Jovenport Javenport Idaho: Boise Boise Coeur d'Alene Coolin Nampa	55 WPTV-DT 60 new-LP 34 WUVG 26 WBQD-LP 20 K20GS 28 KBCI-DT 38 K20EM 39 K08JH 6 KIVI	PG>900kw/387m, directional app dismissed FC to Univision NW, 26kw, 41-28-29/90-26- 45. Testing with color bars. QG from K10MY, 23.4kw, 43-44-23/116-08-14 PR<89kw/858m, 43-45-21/116-05-54 QR from ch. 20, 12kw QR from ch. 8, 1.13kw LC for PG<51.8kw/858m	Brainerd Brainerd Grand Marais Redwood Falls Redwood Falls Redwood Falls Redwood Falls Redwood Falls Rochester <u>Missouri:</u> Branson Jefferson City Joplin Kansas City Kansas City Kansas City	48 new-LP 51 new-LP 63 K63BI 46 K15CE 48 K21DJ 52 K25DN 54 K34DB 58 K58GC 17 K17DL 20 KNLJ-DT 30 KCLJ-LP 24 KCTV-DT 31 KCWE-DT 62 KSMO-TV	app dismissed app dismissed PR<0.5kw, 47-46-04/90-20-47 QC from ch. 15, 1.49kw QC from ch. 21, 1.48kw QC from ch. 25, 1.46kw QC from ch. 34, 1.46kw PR<29kw sold to KYTV-3 PG<12kw QR from ch. 46, 140.8kw, 37-03-10/94-23-20 PR>820kw PG<332m PG>5000kw
 W. Palm Beach Williston Georgia: Athens Iowa: Davenport Idaho: Boise Boise Coeur d'Alene Coolin Nampa Nampa Illinois: Aurora 	 55 WPTV-DT 60 new-LP 34 WUVG 26 WBQD-LP 20 K20GS 28 KBCI-DT 38 K20EM 39 K08JH 6 KIVI 24 KIVI-DT 60 WXFT 	PG>900kw/387m, directional app dismissed FC to Univision NW, 26kw, 41-28-29/90-26- 45. Testing with color bars. QG from K10MY, 23.4kw, 43-44-23/116-08-14 PR<89kw/858m, 43-45-21/116-05-54 QR from ch. 20, 12kw QR from ch. 8, 1.13kw LC for PG<51.8kw/858m PR>98.7kw FC to Telefutura	Brainerd Brainerd Grand Marais Redwood Falls Redwood Falls Redwood Falls Redwood Falls Redwood Falls Rochester Missouri: Branson Jefferson City Joplin Kansas City Kansas City Kansas City Marshfield Springfield St. Charles	48 new-LP 51 new-LP 63 K63BI 46 K15CE 48 K21DJ 52 K25DN 54 K34DB 58 K58GC 17 K17DL 20 KNLJ-DT 30 KCLJ-LP 24 KCTV-DT 31 KCWE-DT 62 KSMO-TV 17 K17FU 15 K15CZ 59 K34BR	app dismissed app dismissed PR<0.5kw, 47-46-04/90-20-47 QC from ch. 15, 1.49kw QC from ch. 21, 1.48kw QC from ch. 25, 1.46kw QC from ch. 34, 1.46kw PR<29kw sold to KYTV-3 PG<12kw QR from ch. 46, 140.8kw, 37-03-10/94-23-20 PR>820kw PG<332m PG<5000kw QG from ch. 68, 0.743kw, 37-17-51/93-00-26 sold to KYTV-3 QC from ch. 34, 14.9kw
 W. Palm Beach Williston Georgia: Athens Iowa: Davenport Idaho: Boise Boise Coeur d'Alene Coolin Nampa Nampa Nampa Bloomington 	55 WPTV-DT 60 new-LP 34 WUVG 26 WBQD-LP 20 K20GS 28 KBCI-DT 38 K20EM 39 K08JH 6 KIVI 24 KIVI-DT	PG>900kw/387m, directional app dismissed FC to Univision NW, 26kw, 41-28-29/90-26- 45. Testing with color bars. QG from K10MY, 23.4kw, 43-44-23/116-08-14 PR<89kw/858m, 43-45-21/116-05-54 QR from ch. 20, 12kw QR from ch. 8, 1.13kw LC for PG<51.8kw/858m PR>98.7kw FC to Telefutura PR<6.9kw	Brainerd Brainerd Grand Marais Redwood Falls Redwood Falls Redwood Falls Redwood Falls Rochester <u>Missouri:</u> Branson Jefferson City Joplin Kansas City Kansas City Kansas City Kansas City Marshfield	48 new-LP 51 new-LP 63 K63BI 46 K15CE 48 K21DJ 52 K25DN 54 K34DB 58 K58GC 17 K17DL 20 KNLJ-DT 30 KCLJ-LP 24 KCTV-DT 31 KCWE-DT 62 KSMO-TV 17 K17FU 15 K15CZ	app dismissed app dismissed PR<0.5kw, 47-46-04/90-20-47 QC from ch. 15, 1.49kw QC from ch. 21, 1.48kw QC from ch. 25, 1.46kw QC from ch. 34, 1.46kw PR<29kw sold to KYTV-3 PG<12kw QR from ch. 46, 140.8kw, 37-03-10/94-23-20 PR>820kw PG<332m PG>5000kw QG from ch. 68, 0.743kw, 37-17-51/93-00-26 sold to KYTV-3 QC from ch. 34, 14.9kw w/308m (aux.
 W. Palm Beach Williston Georgia: Athens Iowa: Davenport Idaho: Boise Boise Coeur d'Alene Coolin Nampa Nampa Nampa Bloomington Moline 	55 WPTV-DT 60 new-LP 34 WUVG 26 WBQD-LP 20 K20GS 28 KBCI-DT 38 K20EM 39 K08JH 6 KIVI 24 KIVI-DT 60 WXFT 51 W51CT 38 WQAD-DT	PG>900kw/387m, directional app dismissed FC to Univision NW, 26kw, 41-28-29/90-26- 45. Testing with color bars. QG from K10MY, 23.4kw, 43-44-23/116-08-14 PR<89kw/858m, 43-45-21/116-05-54 QR from ch. 20, 12kw QR from ch. 8, 1.13kw LC for PG<51.8kw/858m PR>98.7kw FC to Telefutura PR<6.9kw PR>334m; NW	Brainerd Brainerd Grand Marais Redwood Falls Redwood Falls Redwood Falls Redwood Falls Rochester <u>Missouri:</u> Branson Jefferson City Joplin Kansas City Kansas City Kansas City Kansas City Marshfield Springfield St. Charles St. Louis	 48 new-LP 51 new-LP 63 K63BI 46 K15CE 48 K21DJ 52 K25DN 54 K34DB 58 K58GC 17 K17DL 20 KNLJ-DT 30 KCLJ-LP 24 KCTV-DT 31 KCWE-DT 62 KSMO-TV 17 K17FU 15 K15CZ 59 K34BR 2 KTVINS 46k 	app dismissed app dismissed PR<0.5kw, 47-46-04/90-20-47 QC from ch. 15, 1.49kw QC from ch. 21, 1.48kw QC from ch. 25, 1.46kw QC from ch. 34, 1.46kw PR<29kw sold to KYTV-3 PG<12kw QR from ch. 46, 140.8kw, 37-03-10/94-23-20 PR>820kw PG<332m PG>5000kw QG from ch. 68, 0.743kw, 37-17-51/93-00-26 sold to KYTV-3 QC from ch. 34, 14.9kw w/308m (aux. backup)
 W. Palm Beach Williston Georgia: Athens Iowa: Davenport Idaho: Boise Boise Coeur d'Alene Coolin Nampa Nampa Nampa Bloomington 	55 WPTV-DT 60 new-LP 34 WUVG 26 WBQD-LP 20 K20GS 28 KBCI-DT 38 K20EM 39 K08JH 6 KIVI 24 KIVI-DT	PG>900kw/387m, directional app dismissed FC to Univision NW, 26kw, 41-28-29/90-26- 45. Testing with color bars. QG from K10MY, 23.4kw, 43-44-23/116-08-14 PR<89kw/858m, 43-45-21/116-05-54 QR from ch. 20, 12kw QR from ch. 8, 1.13kw LC for PG<51.8kw/858m PR>98.7kw FC to Telefutura PR<6.9kw PR>334m; NW LC for QG from ch. 40,	Brainerd Brainerd Grand Marais Redwood Falls Redwood Falls Redwood Falls Redwood Falls Redwood Falls Rochester Missouri: Branson Jefferson City Joplin Kansas City Kansas City Kansas City Marshfield Springfield St. Charles	48 new-LP 51 new-LP 63 K63BI 46 K15CE 48 K21DJ 52 K25DN 54 K34DB 58 K58GC 17 K17DL 20 KNLJ-DT 30 KCLJ-LP 24 KCTV-DT 31 KCWE-DT 62 KSMO-TV 17 K17FU 15 K15CZ 59 K34BR	app dismissed app dismissed PR<0.5kw, 47-46-04/90-20-47 QC from ch. 15, 1.49kw QC from ch. 21, 1.48kw QC from ch. 25, 1.46kw QC from ch. 34, 1.46kw PR<29kw sold to KYTV-3 PG<12kw QR from ch. 46, 140.8kw, 37-03-10/94-23-20 PR>820kw PG<332m PG>5000kw QG from ch. 68, 0.743kw, 37-17-51/93-00-26 sold to KYTV-3 QC from ch. 34, 14.9kw w/308m (aux. backup) LC for PG>602m,
 W. Palm Beach Williston Georgia: Athens Iowa: Davenport Idaho: Boise Boise Coeur d'Alene Coolin Nampa Nampa Nampa Bloomington Moline 	55 WPTV-DT 60 new-LP 34 WUVG 26 WBQD-LP 20 K20GS 28 KBCI-DT 38 K20EM 39 K08JH 6 KIVI 24 KIVI-DT 60 WXFT 51 W51CT 38 WQAD-DT	PG>900kw/387m, directional app dismissed FC to Univision NW, 26kw, 41-28-29/90-26- 45. Testing with color bars. QG from K10MY, 23.4kw, 43-44-23/116-08-14 PR<89kw/858m, 43-45-21/116-05-54 QR from ch. 20, 12kw QR from ch. 8, 1.13kw LC for PG<51.8kw/858m PR>98.7kw FC to Telefutura PR<6.9kw PR>334m; NW	Brainerd Brainerd Grand Marais Redwood Falls Redwood Falls Redwood Falls Redwood Falls Rochester <u>Missouri:</u> Branson Jefferson City Joplin Kansas City Kansas City Kansas City Kansas City Marshfield Springfield St. Charles St. Louis	 48 new-LP 51 new-LP 63 K63BI 46 K15CE 48 K21DJ 52 K25DN 54 K34DB 58 K58GC 17 K17DL 20 KNLJ-DT 30 KCLJ-LP 24 KCTV-DT 31 KCWE-DT 62 KSMO-TV 17 K17FU 15 K15CZ 59 K34BR 2 KTVINS 46k 	app dismissed app dismissed PR<0.5kw, 47-46-04/90-20-47 QC from ch. 15, 1.49kw QC from ch. 21, 1.48kw QC from ch. 25, 1.46kw QC from ch. 34, 1.46kw PR<29kw sold to KYTV-3 PG<12kw QR from ch. 46, 140.8kw, 37-03-10/94-23-20 PR>820kw PG<332m PG>5000kw QG from ch. 68, 0.743kw, 37-17-51/93-00-26 sold to KYTV-3 QC from ch. 34, 14.9kw w/308m (aux. backup)
W. Palm Beach Williston Georgia: Athens Jovenport Idaho: Davenport Idaho: Boise Boise Coeur d'Alene Coolin Nampa Nampa Nampa Sloomington Moline Quincy	55 WPTV-DT 60 new-LP 34 WUVG 26 WBQD-LP 20 K20GS 28 KBCI-DT 38 K20EM 39 K08JH 6 KIVI 24 KIVI-DT 60 WXFT 51 W51CT 38 WQAD-DT	PG>900kw/387m, directional app dismissed FC to Univision NW, 26kw, 41-28-29/90-26- 45. Testing with color bars. QG from K10MY, 23.4kw, 43-44-23/116-08-14 PR<89kw/858m, 43-45-21/116-05-54 QR from ch. 20, 12kw QR from ch. 8, 1.13kw LC for PG<51.8kw/858m PR>98.7kw FC to Telefutura PR<6.9kw PR>334m; NW LC for QG from ch. 40, 21.3kw QC from ch. 26; CC from	Brainerd Brainerd Grand Marais Redwood Falls Redwood Falls Redwood Falls Redwood Falls Redwood Falls Rochester <u>Missouri:</u> Branson Jefferson City Joplin Kansas City Kansas City Kansas City Marshfield Springfield St. Charles St. Louis Warrensburg	 48 new-LP 51 new-LP 63 K63BI 46 K15CE 48 K21DJ 52 K25DN 54 K34DB 58 K58GC 17 K17DL 20 KNLJ-DT 30 KCLJ-LP 24 KCTV-DT 31 KCWE-DT 62 KSMO-TV 17 K17FU 15 K15CZ 59 K34BR 2 KTVINS 46k 	app dismissed app dismissed PR<0.5kw, 47-46-04/90-20-47 QC from ch. 15, 1.49kw QC from ch. 21, 1.48kw QC from ch. 25, 1.46kw QC from ch. 34, 1.46kw PR<29kw sold to KYTV-3 PG<12kw QR from ch. 46, 140.8kw, 37-03-10/94-23-20 PR>820kw PG<332m PG>5000kw QG from ch. 68, 0.743kw, 37-17-51/93-00-26 sold to KYTV-3 QC from ch. 34, 14.9kw w/308m (aux. backup) LC for PG>602m,
W. Palm Beach Williston Georgia: Athens Jovenport Idaho: Boise Boise Boise Coeur d'Alene Coolin Nampa Nampa Nampa Starra Bloomington Moline Quincy Indiana: Clarksville	55 WPTV-DT 60 new-LP 34 WUVG 26 WBQD-LP 20 K20GS 28 KBCI-DT 38 K20EM 39 K08JH 6 KIVI 24 KIVI-DT 60 WXFT 51 W51CT 38 WQAD-DT 18 W18CJ 45 WKQT-CA	PG>900kw/387m, directional app dismissed FC to Univision NW, 26kw, 41-28-29/90-26- 45. Testing with color bars. QG from K10MY, 23.4kw, 43-44-23/116-08-14 PR<89kw/858m,	Brainerd Brainerd Grand Marais Redwood Falls Redwood Falls Redwood Falls Redwood Falls Redwood Falls Redwood Falls Rochester <u>Missouri:</u> Branson Jefferson City Joplin Kansas City Kansas City Kansas City Kansas City Marshfield Springfield St. Charles St. Louis Warrensburg <u>Mississippi:</u> Grenada	48 new-LP 51 new-LP 63 K63BI 46 K15CE 48 K21DJ 52 K25DN 54 K34DB 58 K58GC 17 K17DL 20 KNLJ-DT 30 KCLJ-LP 24 KCTV-DT 31 KCWE-DT 62 KSMO-TV 17 K17FU 15 K15CZ 59 K34BR 2 KTVINS 46k 6 KMOS-TV	app dismissed app dismissed PR<0.5kw, 47-46-04/90-20-47 QC from ch. 15, 1.49kw QC from ch. 21, 1.48kw QC from ch. 25, 1.46kw QC from ch. 34, 1.46kw PR<29kw sold to KYTV-3 PG<12kw QR from ch. 46, 140.8kw, 37-03-10/94-23-20 PR>820kw PG<332m PG>5000kw QG from ch. 68, 0.743kw, 37-17-51/93-00-26 sold to KYTV-3 QC from ch. 34, 14.9kw w/308m (aux. backup) LC for PG>602m, 38-37-36/92-52-03
 W. Palm Beach Williston Georgia: Athens Jowenport Idaho: Davenport Idaho: Boise Boise Coeur d'Alene Coolin Nampa Nampa Nampa Nampa Bloomington Moline Quincy Indiana: Clarksville Evansville 	55 WPTV-DT 60 new-LP 34 WUVG 26 WBQD-LP 20 K20GS 28 KBCI-DT 38 K20EM 39 K08JH 6 KIVI 24 KIVI-DT 60 WXFT 51 W51CT 38 WQAD-DT 18 W18CJ 45 WKQT-CA 59 WEHT-DT	PG>900kw/387m, directional app dismissed FC to Univision NW, 26kw, 41-28-29/90-26- 45. Testing with color bars. QG from K10MY, 23.4kw, 43-44-23/116-08-14 PR<89kw/858m, 43-45-21/116-05-54 QR from ch. 20, 12kw QR from ch. 20, 12kw QR from ch. 8, 1.13kw LC for PG<51.8kw/858m PR>98.7kw FC to Telefutura PR<6.9kw PR>334m; NW LC for QG from ch. 40, 21.3kw QC from ch. 26; CC from WJYL-CA NW, 59kw/301m	Brainerd Brainerd Grand Marais Redwood Falls Redwood Falls Redwood Falls Redwood Falls Redwood Falls Redwood Falls Rochester Missouri: Branson Jefferson City Joplin Kansas City Kansas City Kansas City Marshfield Springfield St. Charles St. Louis Warrensburg Mississippi: Grenada	 48 new-LP 51 new-LP 63 K63BI 46 K15CE 48 K21DJ 52 K25DN 54 K34DB 58 K58GC 17 K17DL 20 KNLJ-DT 30 KCLJ-LP 24 KCTV-DT 31 KCWE-DT 62 KSMO-TV 17 K17FU 15 K15CZ 59 K34BR 2 KTVINS 46k 6 KMOS-TV 30 W30BY 	app dismissed app dismissed PR<0.5kw, 47-46-04/90-20-47 QC from ch. 15, 1.49kw QC from ch. 21, 1.48kw QC from ch. 25, 1.46kw QC from ch. 34, 1.46kw PR<29kw sold to KYTV-3 PG<12kw QR from ch. 46, 140.8kw, 37-03-10/94-23-20 PR>820kw PG<332m PG>5000kw QG from ch. 68, 0.743kw, 37-17-51/93-00-26 sold to KYTV-3 QC from ch. 34, 14.9kw w/308m (aux. backup) LC for PG>602m, 38-37-36/92-52-03 QG from W25BA, 5.6kw
 W. Palm Beach Williston Georgia: Athens Jovenport Idaho: Davenport Idaho: Boise Boise Coeur d'Alene Coolin Nampa Nampa Nampa Nampa Bloomington Moline Quincy Indiana: Clarksville Evansville Indianapolis 	55 WPTV-DT 60 new-LP 34 WUVG 26 WBQD-LP 20 K20GS 28 KBCI-DT 38 K20EM 39 K08JH 6 KIVI 24 KIVI-DT 60 WXFT 51 W51CT 38 WQAD-DT 18 W18CJ 45 WKQT-CA 59 WEHT-DT 6 WRTV	PG>900kw/387m, directional app dismissed FC to Univision NW, 26kw, 41-28-29/90-26- 45. Testing with color bars. QG from K10MY, 23.4kw, 43-44-23/116-08-14 PR<89kw/858m, 43-45-21/116-05-54 QR from ch. 20, 12kw QR from ch. 20, 12kw QR from ch. 8, 1.13kw LC for PG<51.8kw/858m PR>98.7kw FC to Telefutura PR<6.9kw PR>334m; NW LC for QG from ch. 40, 21.3kw QC from ch. 26; CC from WJYL-CA NW, 59kw/301m LC for PG<279m	Brainerd Brainerd Grand Marais Redwood Falls Redwood Falls Redwood Falls Redwood Falls Redwood Falls Redwood Falls Rochester Missouri: Branson Jefferson City Joplin Kansas City Kansas City Kansas City Kansas City Kansas City Kansas City Kansas City Kansas City Kansas City Marshfield Springfield St. Charles St. Louis Warrensburg Mississippi: Grenada	 48 new-LP 51 new-LP 63 K63BI 46 K15CE 48 K21DJ 52 K25DN 54 K34DB 58 K58GC 17 K17DL 20 KNLJ-DT 30 KCLJ-LP 24 KCTV-DT 31 KCWE-DT 62 KSMO-TV 17 K17FU 15 K15CZ 59 K34BR 2 KTVINS 46k 6 KMOS-TV 30 W30BY 35 KEXI-LP 	app dismissed app dismissed PR<0.5kw, 47-46-04/90-20-47 QC from ch. 15, 1.49kw QC from ch. 21, 1.48kw QC from ch. 25, 1.46kw QC from ch. 34, 1.46kw PR<29kw sold to KYTV-3 PG<12kw QR from ch. 46, 140.8kw, 37-03-10/94-23-20 PR>820kw PG<332m PG>5000kw QG from ch. 68, 0.743kw, 37-17-51/93-00-26 sold to KYTV-3 QC from ch. 34, 14.9kw w/308m (aux. backup) LC for PG>602m, 38-37-36/92-52-03 QG from W25BA, 5.6kw
 W. Palm Beach Williston Georgia: Athens Jowenport Idaho: Davenport Idaho: Boise Boise Coeur d'Alene Coolin Nampa Nampa Nampa Nampa Bloomington Moline Quincy Indiana: Clarksville Evansville 	55 WPTV-DT 60 new-LP 34 WUVG 26 WBQD-LP 20 K20GS 28 KBCI-DT 38 K20EM 39 K08JH 6 KIVI 24 KIVI-DT 60 WXFT 51 W51CT 38 WQAD-DT 18 W18CJ 45 WKQT-CA 59 WEHT-DT	PG>900kw/387m, directional app dismissed FC to Univision NW, 26kw, 41-28-29/90-26- 45. Testing with color bars. QG from K10MY, 23.4kw, 43-44-23/116-08-14 PR<89kw/858m, 43-45-21/116-05-54 QR from ch. 20, 12kw QR from ch. 20, 12kw QR from ch. 8, 1.13kw LC for PG<51.8kw/858m PR>98.7kw FC to Telefutura PR<6.9kw PR>334m; NW LC for QG from ch. 40, 21.3kw QC from ch. 26; CC from WJYL-CA NW, 59kw/301m	Brainerd Brainerd Grand Marais Redwood Falls Redwood Falls Redwood Falls Redwood Falls Redwood Falls Redwood Falls Rochester Missouri: Branson Jefferson City Joplin Kansas City Kansas City Kansas City Marshfield Springfield St. Charles St. Louis Warrensburg Mississippi: Grenada	 48 new-LP 51 new-LP 63 K63BI 46 K15CE 48 K21DJ 52 K25DN 54 K34DB 58 K58GC 17 K17DL 20 KNLJ-DT 30 KCLJ-LP 24 KCTV-DT 31 KCWE-DT 62 KSMO-TV 17 K17FU 15 K15CZ 59 K34BR 2 KTVINS 46k 6 KMOS-TV 30 W30BY 	app dismissed app dismissed PR<0.5kw, 47-46-04/90-20-47 QC from ch. 15, 1.49kw QC from ch. 21, 1.48kw QC from ch. 25, 1.46kw QC from ch. 34, 1.46kw PR<29kw sold to KYTV-3 PG<12kw QR from ch. 46, 140.8kw, 37-03-10/94-23-20 PR>820kw PG<332m PG>5000kw QG from ch. 68, 0.743kw, 37-17-51/93-00-26 sold to KYTV-3 QC from ch. 34, 14.9kw w/308m (aux. backup) LC for PG>602m, 38-37-36/92-52-03 QG from W25BA, 5.6kw
 W. Palm Beach Williston Georgia: Athens Jowa: Davenport Javenport Idaho: Boise Boise Coeur d'Alene Coolin Nampa Nampa Nampa Nampa Illinois: Aurora Bloomington Moline Quincy Indiana: Clarksville Evansville Indianapolis Muncie Kentucky: 	55 WPTV-DT 60 new-LP 34 WUVG 26 WBQD-LP 20 K20GS 28 KBCI-DT 38 K20EM 39 K08JH 6 KIVI 24 KIVI-DT 60 WXFT 51 W51CT 38 WQAD-DT 18 W18CJ 45 WKQT-CA 59 WEHT-DT 6 WRTV 26 WMUN-LP	PG>900kw/387m, directional app dismissed FC to Univision NW, 26kw, 41-28-29/90-26- 45. Testing with color bars. QG from K10MY, 23.4kw, 43-44-23/116-08-14 PR<89kw/858m, 43-45-21/116-05-54 QR from ch. 20, 12kw QR from ch. 8, 1.13kw LC for PG<51.8kw/858m PR>98.7kw FC to Telefutura PR<6.9kw PR>334m; NW LC for QG from ch. 40, 21.3kw QC from ch. 26; CC from WJYL-CA NW, 59kw/301m LC for PG<279m LC for QG from ch. 32	Brainerd Brainerd Grand Marais Redwood Falls Redwood Falls Redwood Falls Redwood Falls Redwood Falls Redwood Falls Rochester Missouri: Branson Jefferson City Joplin Kansas City Kansas City Kansas City Kansas City Marshfield St. Charles St. Louis Warrensburg Mississippi: Grenada Montana: Kalispell Missoula	48 new-LP 51 new-LP 63 K63BI 46 K15CE 48 K21DJ 52 K25DN 54 K34DB 58 K58GC 17 K17DL 20 KNLJ-DT 30 KCLJ-LP 24 KCTV-DT 31 KCWE-DT 62 KSMO-TV 17 K17FU 15 K15CZ 59 K34BR 2 KTVINS 46k 6 KMOS-TV 30 W30BY 35 KEXI-LP 7 KPAX-DT	app dismissed app dismissed PR<0.5kw, 47-46-04/90-20-47 QC from ch. 15, 1.49kw QC from ch. 21, 1.48kw QC from ch. 25, 1.46kw QC from ch. 34, 1.46kw PR<29kw sold to KYTV-3 PG<12kw QR from ch. 46, 140.8kw, 37-03-10/94-23-20 PR>820kw PG<332m PG>5000kw QG from ch. 68, 0.743kw, 37-17-51/93-00-26 sold to KYTV-3 QC from ch. 34, 14.9kw w/308m (aux. backup) LC for PG>602m, 38-37-36/92-52-03 QG from W25BA, 5.6kw CC from KMMF-LP QG from ch. 35, 28kw/623m
 W. Palm Beach Williston Georgia: Athens Jowa: Davenport Idaho: Boise Boise Boise Coeur d'Alene Coolin Nampa Nampa Illinois: Aurora Bloomington Moline Quincy Indiana: Clarksville Evansville Indianapolis Muncie Kentucky: Bowling Green 	55 WPTV-DT 60 new-LP 34 WUVG 26 WBQD-LP 20 K20GS 28 KBCI-DT 38 K20EM 39 K08JH 6 KIVI 24 KIVI-DT 60 WXFT 51 W51CT 38 WQAD-DT 45 WKQT-CA 59 WEHT-DT 6 WRTV 26 WMUN-LP	PG>900kw/387m, directional app dismissed FC to Univision NW, 26kw, 41-28-29/90-26- 45. Testing with color bars. QG from K10MY, 23.4kw, 43-44-23/116-08-14 PR<89kw/858m, 43-45-21/116-05-54 QR from ch. 20, 12kw QR from ch. 8, 1.13kw LC for PG<51.8kw/858m PR>98.7kw FC to Telefutura PR<6.9kw PR>334m; NW LC for QG from ch. 40, 21.3kw QC from ch. 26; CC from WJYL-CA NW, 59kw/301m LC for PG<279m LC for QG from ch. 32	Brainerd Brainerd Grand Marais Redwood Falls Redwood Falls Redwood Falls Redwood Falls Redwood Falls Rochester Missouri: Branson Jefferson City Joplin Kansas City Kansas City Kansas City Marshfield Springfield St. Charles St. Louis Warrensburg Mississippi: Grenada <u>Montana:</u> Kalispell Missoula	48 new-LP 51 new-LP 63 K63BI 46 K15CE 48 K21DJ 52 K25DN 54 K34DB 58 K58GC 17 K17DL 20 KNLJ-DT 30 KCLJ-LP 24 KCTV-DT 31 KCWE-DT 62 KSMO-TV 17 K17FU 15 K15CZ 59 K34BR 2 KTVINS 46k 6 KMOS-TV 30 W30BY 35 KEXI-LP 7 KPAX-DT	app dismissed app dismissed PR<0.5kw, 47-46-04/90-20-47 QC from ch. 15, 1.49kw QC from ch. 21, 1.48kw QC from ch. 25, 1.46kw QC from ch. 34, 1.46kw PR<29kw sold to KYTV-3 PG<12kw QR from ch. 46, 140.8kw, 37-03-10/94-23-20 PR>820kw PG<332m PG>5000kw QG from ch. 68, 0.743kw, 37-17-51/93-00-26 sold to KYTV-3 QC from ch. 34, 14.9kw w/308m (aux. backup) LC for PG>602m, 38-37-36/92-52-03 QG from W25BA, 5.6kw CC from KMMF-LP QG from ch. 35, 28kw/623m LC for PG>0.1kw,
 W. Palm Beach Williston Georgia: Athens Jowa: Davenport Javenport Idaho: Boise Boise Coeur d'Alene Coolin Nampa Nampa Nampa Nampa Illinois: Aurora Bloomington Moline Quincy Indiana: Clarksville Evansville Indianapolis Muncie Kentucky: 	55 WPTV-DT 60 new-LP 34 WUVG 26 WBQD-LP 20 K20GS 28 KBCI-DT 38 K20EM 39 K08JH 6 KIVI 24 KIVI-DT 60 WXFT 51 W51CT 38 WQAD-DT 18 W18CJ 45 WKQT-CA 59 WEHT-DT 6 WRTV 26 WMUN-LP	PG>900kw/387m, directional app dismissed FC to Univision NW, 26kw, 41-28-29/90-26- 45. Testing with color bars. QG from K10MY, 23.4kw, 43-44-23/116-08-14 PR<89kw/858m, 43-45-21/116-05-54 QR from ch. 20, 12kw QR from ch. 8, 1.13kw LC for PG<51.8kw/858m PR>98.7kw FC to Telefutura PR<6.9kw PR>334m; NW LC for QG from ch. 40, 21.3kw QC from ch. 26; CC from WJYL-CA NW, 59kw/301m LC for PG<279m LC for QG from ch. 32	Brainerd Brainerd Grand Marais Redwood Falls Redwood Falls Redwood Falls Redwood Falls Redwood Falls Redwood Falls Redwood Falls Rochester Missouri: Branson Jefferson City Joplin Kansas City Kansas City Kansas City Kansas City Marshfield Springfield St. Charles St. Louis Warrensburg Mississippi: Grenada Montana: Kalispell Missoula	48 new-LP 51 new-LP 63 K63BI 46 K15CE 48 K21DJ 52 K25DN 54 K34DB 58 K58GC 17 K17DL 20 KNLJ-DT 30 KCLJ-LP 24 KCTV-DT 31 KCWE-DT 62 KSMO-TV 17 K17FU 15 K15CZ 59 K34BR 2 KTVINS 46k 6 KMOS-TV 30 W30BY 35 KEXI-LP 7 KPAX-DT 8 W08BP	app dismissed app dismissed PR<0.5kw, 47-46-04/90-20-47 QC from ch. 15, 1.49kw QC from ch. 21, 1.48kw QC from ch. 25, 1.46kw QC from ch. 34, 1.46kw PR<29kw sold to KYTV-3 PG<12kw QR from ch. 46, 140.8kw, 37-03-10/94-23-20 PR>820kw PG<332m PG>5000kw QG from ch. 68, 0.743kw, 37-17-51/93-00-26 sold to KYTV-3 QC from ch. 34, 14.9kw w/308m (aux. backup) LC for PG>602m, 38-37-36/92-52-03 QG from W25BA, 5.6kw CC from KMMF-LP QG from ch. 35, 28kw/623m LC for PG>0.1kw, 35-31-39/82-29-44
 W. Palm Beach Williston Georgia: Athens Jowa: Davenport Jowenport Idaho: Boise Boise Boise Coeur d'Alene Coolin Nampa Nampa Nampa Nampa Nampa Coeur d'Alene Coolin Nampa Nampa Boise Coeur d'Alene Coolin Nampa Nampa Boise Coeur d'Alene Coolin Nampa Boise Coeur d'Alene Coolin Rampa Sampa Sampa	55 WPTV-DT 60 new-LP 34 WUVG 26 WBQD-LP 20 K20GS 28 KBCI-DT 38 K20EM 39 K08JH 6 KIVI 24 KIVI-DT 60 WXFT 51 W51CT 38 WQAD-DT 45 WKQT-CA 59 WEHT-DT 6 WRTV 26 WMUN-LP	PG>900kw/387m, directional app dismissed FC to Univision NW, 26kw, 41-28-29/90-26- 45. Testing with color bars. QG from K10MY, 23.4kw, 43-44-23/116-08-14 PR<89kw/858m, 43-45-21/116-05-54 QR from ch. 20, 12kw QR from ch. 8, 1.13kw LC for PG<51.8kw/858m PR>98.7kw FC to Telefutura PR<6.9kw PR>334m; NW LC for QG from ch. 40, 21.3kw QC from ch. 26; CC from WJYL-CA NW, 59kw/301m LC for PG<279m LC for QG from ch. 32	Brainerd Brainerd Grand Marais Redwood Falls Redwood Falls Redwood Falls Redwood Falls Redwood Falls Redwood Falls Rochester Missouri: Branson Jefferson City Joplin Kansas City Kansas City Kansas City Kansas City Marshfield St. Charles St. Louis Warrensburg Mississippi: Grenada Montana: Kalispell Missoula	48 new-LP 51 new-LP 63 K63BI 46 K15CE 48 K21DJ 52 K25DN 54 K34DB 58 K58GC 17 K17DL 20 KNLJ-DT 30 KCLJ-LP 24 KCTV-DT 31 KCWE-DT 62 KSMO-TV 17 K17FU 15 K15CZ 59 K34BR 2 KTVINS 46k 6 KMOS-TV 30 W30BY 35 KEXI-LP 7 KPAX-DT 8 W08BP 11 W11CT	app dismissed app dismissed PR<0.5kw, 47-46-04/90-20-47 QC from ch. 15, 1.49kw QC from ch. 21, 1.48kw QC from ch. 25, 1.46kw QC from ch. 34, 1.46kw PR<29kw sold to KYTV-3 PG<12kw QR from ch. 46, 140.8kw, 37-03-10/94-23-20 PR>820kw PG<332m PG>5000kw QG from ch. 68, 0.743kw, 37-17-51/93-00-26 sold to KYTV-3 QC from ch. 34, 14.9kw w/308m (aux. backup) LC for PG>602m, 38-37-36/92-52-03 QG from W25BA, 5.6kw CC from KMMF-LP QG from ch. 35, 28kw/623m LC for PG>0.1kw, 35-31-39/82-29-44 NS 3kw, 35-15-49/75-31-41
 W. Palm Beach Williston Georgia: Athens Jowa: Davenport Idaho: Boise Boise Boise Coeur d'Alene Coolin Nampa Nampa Nampa Illinois: Aurora Bloomington Moline Quincy Indiana: Clarksville Evansville Indianapolis Muncie Kentucky: Bowling Green Elizabethtown Louisiana: New Orleans 	55 WPTV-DT 60 new-LP 34 WUVG 26 WBQD-LP 20 K20GS 28 KBCI-DT 38 K20EM 39 K08JH 6 KIVI 24 KIVI-DT 60 WXFT 51 W51CT 38 WQAD-DT 45 WKQT-CA 59 WEHT-DT 6 WRTV 26 WMUN-LP 40 WNKY 43 WKZT-DT 21 WHNO-DT	PG>900kw/387m, directional app dismissed FC to Univision NW, 26kw, 41-28-29/90-26- 45. Testing with color bars. QG from K10MY, 23.4kw, 43-44-23/116-08-14 PR<89kw/858m,	Brainerd Brainerd Grand Marais Redwood Falls Redwood Falls	48 new-LP 51 new-LP 63 K63BI 46 K15CE 48 K21DJ 52 K25DN 54 K34DB 58 K58GC 17 K17DL 20 KNLJ-DT 30 KCLJ-LP 24 KCTV-DT 31 KCWE-DT 62 KSMO-TV 17 K17FU 15 K15CZ 59 K34BR 2 KTVINS 46k 6 KMOS-TV 30 W30BY 35 KEXI-LP 7 KPAX-DT 8 W08BP	app dismissed app dismissed PR<0.5kw, 47-46-04/90-20-47 QC from ch. 15, 1.49kw QC from ch. 21, 1.48kw QC from ch. 25, 1.46kw QC from ch. 34, 1.46kw PR<29kw sold to KYTV-3 PG<12kw QR from ch. 46, 140.8kw, 37-03-10/94-23-20 PR>820kw PG<332m PG>5000kw QG from ch. 68, 0.743kw, 37-17-51/93-00-26 sold to KYTV-3 QC from ch. 34, 14.9kw w/308m (aux. backup) LC for PG>602m, 38-37-36/92-52-03 QG from W25BA, 5.6kw CC from KMMF-LP QG from ch. 35, 28kw/623m LC for PG>0.1kw, 35-31-39/82-29-44
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Dickinson	38 K38HA	NW 8.76kw, 46-55-08/102-			0.25kw
		43-37, KXND-24 Fox	Elgin	39 K39FD	LC for QG from ch. 66
Williston	38 K38FX	NW 11.9kw, 48-09-18/103-	Eugene	21 K21FS	QC from K68BF, 0.78kw
		30-01, KXND-24 Fox	Eugene	44 KEZI-DT	PG<30kw
New Hampshire			Klamath Falls	48 K56EW	QR from ch. 56, 2.6kw,
Hampton Falls	26 W26CM	QG from W23AM, 8.2kw,			42-06-03/121-38-07
		42-21-49/71-03-55 in Boston	La Grande	16 KBPD	NW, 60.3kw/773m,
New Jersey:					45-18-35/117-43-57
Newark	68 WFUT	FC to Telefutura	La Grande	29 K29EL	LC for QG fm ch. 60, 0.3kw
			La Grande	35 K64BB	LC for QG fm ch. 64, 0.3kw
New Mexico:			Newberg	51 KOXO-CA	PR>150kw
Albuquerque	25 K35FC	QR from ch. 35	Portland	43 KATU-DT	PG 1000kw/301m,
Albuquerque	35 KNME-DT	PG>250kw,			45-30-58/122-43-59
1 1		35-12-50/106-27-01 but see	Pennsylvania:		
		below	Brookville	45 W45BT	LC for QG from ch. 51,
Albuquerque	45 KASY-DT	QG from ch. 51, 1287m,			7.2kw
		35-12-48/106-27-00			
Albuquerque	48 KTFA-CA	FC to Telefutura	Pennsylvania:		
Capitan	30 K30GM	QC from K53BN, 4.1kw	Erie	45 new-LP	2 apps dismissed
Clovis	22 new-LP	app dismissed	Kittanning	44 W25AX	PR>2.87kw
Eagle Nest	20 K20GO	QC from K53ET, 1.38kw,	Pittsburgh	43 WPGH-DT	NS 1000kw/312m,
24,810 11000	20112000	36-37-39/105-13-41	i ittiss ui gii		40-29-43/80-00-18
Farmington	14 K14KN	NS 8.5kw,	South Carolina:		
runnington		36-41-46/108-13-17, TBN	Columbia	21 W21CA	PR >9.5kw,
Grants	33 K33GA	QC from K67CR, 1.28kw,	Columbia	21 0 21011	34-03-23/80-58-50
Oranto	55 N 550M	35-07-09/107-54-04	Columbia	32 WRLK-DT	NW 65kw/314m
Roy	34 K69CG	LC for QG from ch. 69,	Florence	56 WBTW-DT	NW, 1000kw/541m
КОу	34 K09CU	1.14kw, 35-58-04/104-13-51	Myrtle Beach	34 W34CQ	QC from W66BJ, 11.8kw
Silver City	42 new-LP	app dismissed	Myrtie Beach	34 W 34CQ	QC IIOIII WOODJ, 11.8KW
Wagon Mound	42 new-LF 36 K68BO	LC for QG from ch. 68,	South Dalasta		
wagon Mound	30 K00DO		South Dakota: Pierre	33 new-LP	onn diamiasad
Namadas		0.07kw, 36-00-19/104-42-12	Pierre	39 new-LP	app dismissed
<u>Nevada:</u> Elko	41 I D	AT diamianad			app dismissed
	41 new-LP	AF dismissed	Rapid City	15 KCLO-TV	PR<154m, directional
Elko	43 new-LP	AF dismissed	Rapid City	38 KKRA-LP	QG from ch. 24, 21.6kw,
Elko	45 new-LP	AF dismissed	Denial Cites	40 V 40CC	44-19-42/103-50-05
Eureka	15 K60AQ	QR from ch. 60	Rapid City	40 K40GS	QG from K31DK, 21.6kw,
Eureka	17 K68CS	QR from ch. 68	-		44-19-42/103-50-05
Eureka	21 K63CH	QR from ch. 63	<u>Tennessee:</u>		DD 550
Las Vegas	27 KELV-LP	FC to Telefutura	Knoxville	17 WKOP-DT	PR>553m
Tononah	4 new-LP	app dismissed			35-59-44/83-57-23
Tonopah					33-39-44/83-37-23
Winnemucca	2 new-LP	app dismissed	_		55-57-44/85-57-25
Winnemucca			Texas:		
Winnemucca New Jersey:	2 new-LP	app dismissed	Abilene	42 KIDZ-LP	QG from ch. 54
Winnemucca			Abilene Alvin	67 KTFH	QG from ch. 54 FC to Telefutura
Winnemucca <u>New Jersey:</u> Vineland	2 new-LP	app dismissed	Abilene Alvin Austin	67 KTFH 49 KBVO-CA	QG from ch. 54 FC to Telefutura FC to Telefutura
Winnemucca <u>New Jersey:</u> Vineland <u>New York:</u>	2 new-LP 65 WUVP	app dismissed FC to Univision	Abilene Alvin Austin Baytown	67 KTFH 49 KBVO-CA 57 KAZH	QG from ch. 54 FC to Telefutura FC to Telefutura FC to Azteca America
Winnemucca <u>New Jersey:</u> Vineland <u>New York:</u> Binghamton	2 new-LP 65 WUVP 7 WBNG-DT	app dismissed FC to Univision NS 20.4kw/342m	Abilene Alvin Austin Baytown Brownsville	67 KTFH 49 KBVO-CA 57 KAZH 20 KZAV-LP	QG from ch. 54 FC to Telefutura FC to Telefutura FC to Azteca America FC to FTN religion
Winnemucca <u>New Jersey:</u> Vineland <u>New York:</u> Binghamton Buffalo	2 new-LP 65 WUVP 7 WBNG-DT 4 WIVB-TV	app dismissed FC to Univision NS 20.4kw/342m LC for PG<80kw/396m	Abilene Alvin Austin Baytown	67 KTFH 49 KBVO-CA 57 KAZH	QG from ch. 54 FC to Telefutura FC to Telefutura FC to Azteca America FC to FTN religion LC for XG
Winnemucca <u>New Jersey:</u> Vineland <u>New York:</u> Binghamton	2 new-LP 65 WUVP 7 WBNG-DT	app dismissed FC to Univision NS 20.4kw/342m LC for PG<80kw/396m NW, 2.4kw,	Abilene Alvin Austin Baytown Brownsville Brownsville	67 KTFH 49 KBVO-CA 57 KAZH 20 KZAV-LP 23 KVEO	QG from ch. 54 FC to Telefutura FC to Telefutura FC to Azteca America FC to FTN religion LC for XG 26-06-02/97-50-20
Winnemucca <u>New Jersey:</u> Vineland <u>New York:</u> Binghamton Buffalo	2 new-LP 65 WUVP 7 WBNG-DT 4 WIVB-TV	app dismissed FC to Univision NS 20.4kw/342m LC for PG<80kw/396m	Abilene Alvin Austin Baytown Brownsville Brownsville Bryan	67 KTFH 49 KBVO-CA 57 KAZH 20 KZAV-LP 23 KVEO 34 KRHD-LP	QG from ch. 54 FC to Telefutura FC to Telefutura FC to Azteca America FC to FTN religion LC for XG
Winnemucca <u>New Jersey:</u> Vineland <u>New York:</u> Binghamton Buffalo	2 new-LP 65 WUVP 7 WBNG-DT 4 WIVB-TV	app dismissed FC to Univision NS 20.4kw/342m LC for PG<80kw/396m NW, 2.4kw, 42-01-55/76-47-02, 3ABN NW, 3.1kw,	Abilene Alvin Austin Baytown Brownsville Brownsville Bryan Corpus Christi	67 KTFH 49 KBVO-CA 57 KAZH 20 KZAV-LP 23 KVEO 34 KRHD-LP 41 KCRP-LP	QG from ch. 54 FC to Telefutura FC to Telefutura FC to Azteca America FC to FTN religion LC for XG 26-06-02/97-50-20 adds WB to ABC FC to Telefutura
Winnemucca <u>New Jersey:</u> Vineland <u>New York:</u> Binghamton Buffalo Elmira	2 new-LP 65 WUVP 7 WBNG-DT 4 WIVB-TV 21 W21BW	app dismissed FC to Univision NS 20.4kw/342m LC for PG<80kw/396m NW, 2.4kw, 42-01-55/76-47-02, 3ABN	Abilene Alvin Austin Baytown Brownsville Brownsville Bryan Corpus Christi Corpus Christi	67 KTFH 49 KBVO-CA 57 KAZH 20 KZAV-LP 23 KVEO 34 KRHD-LP 41 KCRP-LP 45 KXCC-LP	QG from ch. 54 FC to Telefutura FC to Telefutura FC to Azteca America FC to FTN religion LC for XG 26-06-02/97-50-20 adds WB to ABC FC to Telefutura FC to America's Store
Winnemucca <u>New Jersey:</u> Vineland <u>New York:</u> Binghamton Buffalo Elmira	2 new-LP 65 WUVP 7 WBNG-DT 4 WIVB-TV 21 W21BW 26 W26CE	app dismissed FC to Univision NS 20.4kw/342m LC for PG<80kw/396m NW, 2.4kw, 42-01-55/76-47-02, 3ABN NW, 3.1kw,	Abilene Alvin Austin Baytown Brownsville Brownsville Bryan Corpus Christi	67 KTFH 49 KBVO-CA 57 KAZH 20 KZAV-LP 23 KVEO 34 KRHD-LP 41 KCRP-LP	QG from ch. 54 FC to Telefutura FC to Telefutura FC to Azteca America FC to FTN religion LC for XG 26-06-02/97-50-20 adds WB to ABC FC to Telefutura
Winnemucca <u>New Jersey:</u> Vineland <u>New York:</u> Binghamton Buffalo Elmira	2 new-LP 65 WUVP 7 WBNG-DT 4 WIVB-TV 21 W21BW	app dismissed FC to Univision NS 20.4kw/342m LC for PG<80kw/396m NW, 2.4kw, 42-01-55/76-47-02, 3ABN NW, 3.1kw, 40-53-50/72-54-56 on central Long Island LC	Abilene Alvin Austin Baytown Brownsville Brownsville Bryan Corpus Christi Corpus Christi	67 KTFH 49 KBVO-CA 57 KAZH 20 KZAV-LP 23 KVEO 34 KRHD-LP 41 KCRP-LP 45 KXCC-LP	QG from ch. 54 FC to Telefutura FC to Telefutura FC to Azteca America FC to FTN religion LC for XG 26-06-02/97-50-20 adds WB to ABC FC to Telefutura FC to America's Store
Winnemucca <u>New Jersey:</u> Vineland <u>New York:</u> Binghamton Buffalo Elmira New York	2 new-LP 65 WUVP 7 WBNG-DT 4 WIVB-TV 21 W21BW 26 W26CE	app dismissed FC to Univision NS 20.4kw/342m LC for PG<80kw/396m NW, 2.4kw, 42-01-55/76-47-02, 3ABN NW, 3.1kw, 40-53-50/72-54-56 on central Long Island	Abilene Alvin Austin Baytown Brownsville Brownsville Bryan Corpus Christi Corpus Christi Dallas El Paso	67 KTFH 49 KBVO-CA 57 KAZH 20 KZAV-LP 23 KVEO 34 KRHD-LP 41 KCRP-LP 45 KXCC-LP 39 KXTX-TV 65 KKWB	QG from ch. 54 FC to Telefutura FC to Telefutura FC to Azteca America FC to FTN religion LC for XG 26-06-02/97-50-20 adds WB to ABC FC to Telefutura FC to America's Store FC to Telefutura; CC to KTFN (not yet official)
Winnemucca <u>New Jersey:</u> Vineland <u>New York:</u> Binghamton Buffalo Elmira New York New York	2 new-LP 65 WUVP 7 WBNG-DT 4 WIVB-TV 21 W21BW 26 W26CE 35 WNYX-LP	app dismissed FC to Univision NS 20.4kw/342m LC for PG<80kw/396m NW, 2.4kw, 42-01-55/76-47-02, 3ABN NW, 3.1kw, 40-53-50/72-54-56 on central Long Island LC	Abilene Alvin Austin Baytown Brownsville Brownsville Bryan Corpus Christi Corpus Christi Dallas	67 KTFH 49 KBVO-CA 57 KAZH 20 KZAV-LP 23 KVEO 34 KRHD-LP 41 KCRP-LP 45 KXCC-LP 39 KXTX-TV 65 KKWB	QG from ch. 54 FC to Telefutura FC to Telefutura FC to Azteca America FC to FTN religion LC for XG 26-06-02/97-50-20 adds WB to ABC FC to Telefutura FC to Telefutura FC to America's Store FC to Telefutura; CC to KTFN (not yet official) FC to Telefutura
Winnemucca <u>New Jersey:</u> Vineland <u>New York:</u> Binghamton Buffalo Elmira New York New York Smithtown Ohio:	2 new-LP 65 WUVP 7 WBNG-DT 4 WIVB-TV 21 W21BW 26 W26CE 35 WNYX-LP 67 WFTY	app dismissed FC to Univision NS 20.4kw/342m LC for PG<80kw/396m NW, 2.4kw, 42-01-55/76-47-02, 3ABN NW, 3.1kw, 40-53-50/72-54-56 on central Long Island LC FC to Telefutura	Abilene Alvin Austin Baytown Brownsville Brownsville Bryan Corpus Christi Corpus Christi Dallas El Paso	67 KTFH 49 KBVO-CA 57 KAZH 20 KZAV-LP 23 KVEO 34 KRHD-LP 41 KCRP-LP 45 KXCC-LP 39 KXTX-TV 65 KKWB	QG from ch. 54 FC to Telefutura FC to Telefutura FC to Azteca America FC to FTN religion LC for XG 26-06-02/97-50-20 adds WB to ABC FC to Telefutura FC to America's Store FC to Telefutura; CC to KTFN (not yet official)
Winnemucca New Jersey: Vineland New York: Binghamton Buffalo Elmira New York New York New York Smithtown Ohio: Cincinnati	2 new-LP 65 WUVP 7 WBNG-DT 4 WIVB-TV 21 W21BW 26 W26CE 35 WNYX-LP 67 WFTY 38 WBQC-CA	app dismissed FC to Univision NS 20.4kw/342m LC for PG<80kw/396m NW, 2.4kw, 42-01-55/76-47-02, 3ABN NW, 3.1kw, 40-53-50/72-54-56 on central Long Island LC FC to Telefutura QG from ch. 25, 140kw	Abilene Alvin Austin Baytown Brownsville Brownsville Bryan Corpus Christi Corpus Christi Dallas El Paso Floresville	67 KTFH 49 KBVO-CA 57 KAZH 20 KZAV-LP 23 KVEO 34 KRHD-LP 41 KCRP-LP 45 KXCC-LP 39 KXTX-TV 65 KKWB	QG from ch. 54 FC to Telefutura FC to Telefutura FC to Azteca America FC to FTN religion LC for XG 26-06-02/97-50-20 adds WB to ABC FC to Telefutura FC to Telefutura FC to Telefutura; CC to KTFN (not yet official) FC to Telefutura FC to independent (English) PR>430kw/597m,
Winnemucca New Jersey: Vineland New York: Binghamton Buffalo Elmira New York New York New York Smithtown Ohio: Cincinnati Cleveland	2 new-LP 65 WUVP 7 WBNG-DT 4 WIVB-TV 21 W21BW 26 W26CE 35 WNYX-LP 67 WFTY 38 WBQC-CA 61 WQHS-TV	app dismissed FC to Univision NS 20.4kw/342m LC for PG<80kw/396m NW, 2.4kw, 42-01-55/76-47-02, 3ABN NW, 3.1kw, 40-53-50/72-54-56 on central Long Island LC FC to Telefutura QG from ch. 25, 140kw FC to Univision	Abilene Alvin Austin Baytown Brownsville Brownsville Bryan Corpus Christi Corpus Christi Dallas El Paso Floresville Fort Worth Galveston	67 KTFH 49 KBVO-CA 57 KAZH 20 KZAV-LP 23 KVEO 34 KRHD-LP 41 KCRP-LP 45 KXCC-LP 39 KXTX-TV 65 KKWB 45 K45EX 52 KFWD 47 KTMD-DT	QG from ch. 54 FC to Telefutura FC to Telefutura FC to Azteca America FC to FTN religion LC for XG 26-06-02/97-50-20 adds WB to ABC FC to Telefutura FC to America's Store FC to Telefutura; CC to KTFN (not yet official) FC to Telefutura FC to Telefutura FC to Telefutura
Winnemucca New Jersey: Vineland New York: Binghamton Buffalo Elmira New York New York New York Smithtown Ohio: Cincinnati	2 new-LP 65 WUVP 7 WBNG-DT 4 WIVB-TV 21 W21BW 26 W26CE 35 WNYX-LP 67 WFTY 38 WBQC-CA 61 WQHS-TV 40 WRCX-LP	app dismissed FC to Univision NS 20.4kw/342m LC for PG<80kw/396m NW, 2.4kw, 42-01-55/76-47-02, 3ABN NW, 3.1kw, 40-53-50/72-54-56 on central Long Island LC FC to Telefutura QG from ch. 25, 140kw FC to Univision QR from ch. 51, 29kw	Abilene Alvin Austin Baytown Brownsville Brownsville Bryan Corpus Christi Corpus Christi Dallas El Paso Floresville Fort Worth	67 KTFH 49 KBVO-CA 57 KAZH 20 KZAV-LP 23 KVEO 34 KRHD-LP 41 KCRP-LP 45 KXCC-LP 39 KXTX-TV 65 KKWB 45 K45EX 52 KFWD	QG from ch. 54 FC to Telefutura FC to Telefutura FC to Azteca America FC to FTN religion LC for XG 26-06-02/97-50-20 adds WB to ABC FC to Telefutura FC to Telefutura FC to Telefutura; CC to KTFN (not yet official) FC to Telefutura FC to independent (English) PR>430kw/597m,
Winnemucca New Jersey: Vineland New York: Binghamton Buffalo Elmira New York New York New York Smithtown Ohio: Cincinnati Cleveland	2 new-LP 65 WUVP 7 WBNG-DT 4 WIVB-TV 21 W21BW 26 W26CE 35 WNYX-LP 67 WFTY 38 WBQC-CA 61 WQHS-TV	app dismissed FC to Univision NS 20.4kw/342m LC for PG<80kw/396m NW, 2.4kw, 42-01-55/76-47-02, 3ABN NW, 3.1kw, 40-53-50/72-54-56 on central Long Island LC FC to Telefutura QG from ch. 25, 140kw FC to Univision	Abilene Alvin Austin Baytown Brownsville Brownsville Bryan Corpus Christi Corpus Christi Dallas El Paso Floresville Fort Worth Galveston	67 KTFH 49 KBVO-CA 57 KAZH 20 KZAV-LP 23 KVEO 34 KRHD-LP 41 KCRP-LP 45 KXCC-LP 39 KXTX-TV 65 KKWB 45 K45EX 52 KFWD 47 KTMD-DT	QG from ch. 54 FC to Telefutura FC to Telefutura FC to Azteca America FC to FTN religion LC for XG 26-06-02/97-50-20 adds WB to ABC FC to Telefutura FC to Telefutura FC to America's Store FC to Telefutura; CC to KTFN (not yet official) FC to Telefutura FC to independent (English) PR>430kw/597m, 29-34-15/95-30-37
Winnemucca New Jersey: Vineland New York: Binghamton Buffalo Elmira New York New York New York Smithtown Ohio: Cincinnati Cleveland Dayton	2 new-LP 65 WUVP 7 WBNG-DT 4 WIVB-TV 21 W21BW 26 W26CE 35 WNYX-LP 67 WFTY 38 WBQC-CA 61 WQHS-TV 40 WRCX-LP	app dismissed FC to Univision NS 20.4kw/342m LC for PG<80kw/396m NW, 2.4kw, 42-01-55/76-47-02, 3ABN NW, 3.1kw, 40-53-50/72-54-56 on central Long Island LC FC to Telefutura QG from ch. 25, 140kw FC to Univision QR from ch. 51, 29kw	Abilene Alvin Austin Baytown Brownsville Brownsville Bryan Corpus Christi Corpus Christi Dallas El Paso Floresville Fort Worth Galveston	67 KTFH 49 KBVO-CA 57 KAZH 20 KZAV-LP 23 KVEO 34 KRHD-LP 41 KCRP-LP 45 KXCC-LP 39 KXTX-TV 65 KKWB 45 K45EX 52 KFWD 47 KTMD-DT	QG from ch. 54 FC to Telefutura FC to Telefutura FC to Azteca America FC to FTN religion LC for XG 26-06-02/97-50-20 adds WB to ABC FC to Telefutura FC to Telefutura FC to America's Store FC to Telefutura; CC to KTFN (not yet official) FC to Telefutura FC to Telefutura FC to independent (English) PR>430kw/597m, 29-34-15/95-30-37 PR>5010kw/597m,
Winnemucca New Jersey: Vineland New York: Binghamton Buffalo Elmira New York New York New York Smithtown Ohio: Cincinnati Cleveland Dayton	2 new-LP 65 WUVP 7 WBNG-DT 4 WIVB-TV 21 W21BW 26 W26CE 35 WNYX-LP 67 WFTY 38 WBQC-CA 61 WQHS-TV 40 WRCX-LP	app dismissed FC to Univision NS 20.4kw/342m LC for PG<80kw/396m NW, 2.4kw, 42-01-55/76-47-02, 3ABN NW, 3.1kw, 40-53-50/72-54-56 on central Long Island LC FC to Telefutura QG from ch. 25, 140kw FC to Univision QR from ch. 51, 29kw	Abilene Alvin Austin Baytown Brownsville Brownsville Bryan Corpus Christi Corpus Christi Dallas El Paso Floresville Fort Worth Galveston	67 KTFH 49 KBVO-CA 57 KAZH 20 KZAV-LP 23 KVEO 34 KRHD-LP 41 KCRP-LP 45 KXCC-LP 39 KXTX-TV 65 KKWB 45 K45EX 52 KFWD 47 KTMD-DT 48 KTMD	QG from ch. 54 FC to Telefutura FC to Telefutura FC to Azteca America FC to FTN religion LC for XG 26-06-02/97-50-20 adds WB to ABC FC to Telefutura FC to Telefutura FC to America's Store FC to Telefutura; CC to KTFN (not yet official) FC to Telefutura FC to independent (English) PR>430kw/597m, 29-34-15/95-30-37
Winnemucca New Jersey: Vineland New York: Binghamton Buffalo Elmira New York New York New York Smithtown Ohio: Cincinnati Cleveland Dayton Toledo	2 new-LP 65 WUVP 7 WBNG-DT 4 WIVB-TV 21 W21BW 26 W26CE 35 WNYX-LP 67 WFTY 38 WBQC-CA 61 WQHS-TV 40 WRCX-LP 17 WTOL-DT	app dismissed FC to Univision NS 20.4kw/342m LC for PG<80kw/396m NW, 2.4kw, 42-01-55/76-47-02, 3ABN NW, 3.1kw, 40-53-50/72-54-56 on central Long Island LC FC to Telefutura QG from ch. 25, 140kw FC to Univision QR from ch. 51, 29kw	Abilene Alvin Austin Baytown Brownsville Brownsville Bryan Corpus Christi Corpus Christi Dallas El Paso Floresville Fort Worth Galveston	67 KTFH 49 KBVO-CA 57 KAZH 20 KZAV-LP 23 KVEO 34 KRHD-LP 41 KCRP-LP 45 KXCC-LP 39 KXTX-TV 65 KKWB 45 K45EX 52 KFWD 47 KTMD-DT 48 KTMD	QG from ch. 54 FC to Telefutura FC to Telefutura FC to Azteca America FC to FTN religion LC for XG 26-06-02/97-50-20 adds WB to ABC FC to Telefutura FC to Telefutura FC to America's Store FC to Telefutura; CC to KTFN (not yet official) FC to Telefutura FC to independent (English) PR>430kw/597m, 29-34-15/95-30-37 PR>5010kw/597m, 29-34-15/95-30-37 PR>544m,
Winnemucca New Jersey: Vineland New York: Binghamton Buffalo Elmira New York New York New York Smithtown Ohio: Cincinnati Cleveland Dayton Toledo Oklahoma:	2 new-LP 65 WUVP 7 WBNG-DT 4 WIVB-TV 21 W21BW 26 W26CE 35 WNYX-LP 67 WFTY 38 WBQC-CA 61 WQHS-TV 40 WRCX-LP 17 WTOL-DT	app dismissed FC to Univision NS 20.4kw/342m LC for PG<80kw/396m NW, 2.4kw, 42-01-55/76-47-02, 3ABN NW, 3.1kw, 40-53-50/72-54-56 on central Long Island LC FC to Telefutura QG from ch. 25, 140kw FC to Univision QR from ch. 51, 29kw PR<735kw/263m	Abilene Alvin Austin Baytown Brownsville Brownsville Brownsville Bryan Corpus Christi Corpus Christi Dallas El Paso Floresville Fort Worth Galveston Galveston Garland	67 KTFH 49 KBVO-CA 57 KAZH 20 KZAV-LP 23 KVEO 34 KRHD-LP 41 KCRP-LP 45 KXCC-LP 39 KXTX-TV 65 KKWB 45 K45EX 52 KFWD 47 KTMD-DT 48 KTMD 23 KUVN	QG from ch. 54 FC to Telefutura FC to Telefutura FC to Azteca America FC to FTN religion LC for XG 26-06-02/97-50-20 adds WB to ABC FC to Telefutura FC to Telefutura FC to Telefutura; CC to KTFN (not yet official) FC to Telefutura FC to independent (English) PR>430kw/597m, 29-34-15/95-30-37 PR>5010kw/597m, 29-34-15/95-30-37 PR>544m, 32-35-19/96-58-05
Winnemucca New Jersey: Vineland New York: Binghamton Buffalo Elmira New York New York Smithtown Ohio: Cincinnati Cleveland Dayton Toledo Oklahoma: Oklahoma City	2 new-LP 65 WUVP 7 WBNG-DT 4 WIVB-TV 21 W21BW 26 W26CE 35 WNYX-LP 67 WFTY 38 WBQC-CA 61 WQHS-TV 40 WRCX-LP 17 WTOL-DT 7 KOCO-DT	app dismissed FC to Univision NS 20.4kw/342m LC for PG<80kw/396m NW, 2.4kw, 42-01-55/76-47-02, 3ABN NW, 3.1kw, 40-53-50/72-54-56 on central Long Island LC FC to Telefutura QG from ch. 25, 140kw FC to Univision QR from ch. 51, 29kw PR<735kw/263m NS 34kw/430m	Abilene Alvin Austin Baytown Brownsville Brownsville Brownsville Bryan Corpus Christi Corpus Christi Dallas El Paso Floresville Fort Worth Galveston Galveston Garland	67 KTFH 49 KBVO-CA 57 KAZH 20 KZAV-LP 23 KVEO 34 KRHD-LP 41 KCRP-LP 45 KXCC-LP 39 KXTX-TV 65 KKWB 45 K45EX 52 KFWD 47 KTMD-DT 48 KTMD 23 KUVN	QG from ch. 54 FC to Telefutura FC to Telefutura FC to Azteca America FC to FTN religion LC for XG 26-06-02/97-50-20 adds WB to ABC FC to Telefutura FC to Telefutura FC to Telefutura FC to Telefutura; CC to KTFN (not yet official) FC to Telefutura FC to independent (English) PR>430kw/597m, 29-34-15/95-30-37 PR>5010kw/597m, 29-34-15/95-30-37 PR>544m, 32-35-19/96-58-05 PR<7.4kw,
Winnemucca New Jersey: Vineland New York: Binghamton Buffalo Elmira New York New York Smithtown Ohio: Cincinnati Cleveland Dayton Toledo Oklahoma: Oklahoma City	2 new-LP 65 WUVP 7 WBNG-DT 4 WIVB-TV 21 W21BW 26 W26CE 35 WNYX-LP 67 WFTY 38 WBQC-CA 61 WQHS-TV 40 WRCX-LP 17 WTOL-DT 7 KOCO-DT	app dismissed FC to Univision NS 20.4kw/342m LC for PG<80kw/396m NW, 2.4kw, 42-01-55/76-47-02, 3ABN NW, 3.1kw, 40-53-50/72-54-56 on central Long Island LC FC to Telefutura QG from ch. 25, 140kw FC to Univision QR from ch. 51, 29kw PR<735kw/263m NS 34kw/430m NW 130w, 35-33-59/	Abilene Alvin Austin Baytown Brownsville Brownsville Bryan Corpus Christi Corpus Christi Dallas El Paso Floresville Fort Worth Galveston Galveston Garland Georgetown	67 KTFH 49 KBVO-CA 57 KAZH 20 KZAV-LP 23 KVEO 34 KRHD-LP 41 KCRP-LP 45 KXCC-LP 39 KXTX-TV 65 KKWB 45 K45EX 52 KFWD 47 KTMD-DT 48 KTMD 23 KUVN 28 KHPX-LP	QG from ch. 54 FC to Telefutura FC to Telefutura FC to Azteca America FC to Azteca America FC to FTN religion LC for XG 26-06-02/97-50-20 adds WB to ABC FC to Telefutura FC to Telefutura FC to Telefutura FC to Telefutura; CC to KTFN (not yet official) FC to Telefutura FC to independent (English) PR>430kw/597m, 29-34-15/95-30-37 PR>5010kw/597m, 29-34-15/95-30-37 PR>544m, 32-35-19/96-58-05 PR<7.4kw, 30-36-04/97-39-34
Winnemucca New Jersey: Vineland New York: Binghamton Buffalo Elmira New York New York Smithtown Ohio: Cincinnati Cleveland Dayton Toledo Oklahoma: Oklahoma City	2 new-LP 65 WUVP 7 WBNG-DT 4 WIVB-TV 21 W21BW 26 W26CE 35 WNYX-LP 67 WFTY 38 WBQC-CA 61 WQHS-TV 40 WRCX-LP 17 WTOL-DT 7 KOCO-DT	app dismissed FC to Univision NS 20.4kw/342m LC for PG<80kw/396m NW, 2.4kw, 42-01-55/76-47-02, 3ABN NW, 3.1kw, 40-53-50/72-54-56 on central Long Island LC FC to Telefutura QG from ch. 25, 140kw FC to Univision QR from ch. 51, 29kw PR<735kw/263m NS 34kw/430m NW 130w, 35-33-59/ 97-28-28; "New Value Club"	Abilene Alvin Austin Baytown Brownsville Brownsville Bryan Corpus Christi Corpus Christi Dallas El Paso Floresville Fort Worth Galveston Galveston Garland Georgetown	67 KTFH 49 KBVO-CA 57 KAZH 20 KZAV-LP 23 KVEO 34 KRHD-LP 41 KCRP-LP 45 KXCC-LP 39 KXTX-TV 65 KKWB 45 K45EX 52 KFWD 47 KTMD-DT 48 KTMD 23 KUVN 28 KHPX-LP	QG from ch. 54 FC to Telefutura FC to Telefutura FC to Azteca America FC to FTN religion LC for XG 26-06-02/97-50-20 adds WB to ABC FC to Telefutura FC to Telefutura FC to Telefutura FC to Telefutura; CC to KTFN (not yet official) FC to Telefutura FC to independent (English) PR>430kw/597m, 29-34-15/95-30-37 PR>5010kw/597m, 29-34-15/95-30-37 PR>544m, 32-35-19/96-58-05 PR<7.4kw, 30-36-04/97-39-34 LC for PG>578m,
Winnemucca New Jersey: Vineland New York: Binghamton Buffalo Elmira New York New York New York Smithtown Ohio: Cincinnati Cleveland Dayton Toledo Oklahoma: Oklahoma City	2 new-LP 65 WUVP 7 WBNG-DT 4 WIVB-TV 21 W21BW 26 W26CE 35 WNYX-LP 67 WFTY 38 WBQC-CA 61 WQHS-TV 40 WRCX-LP 17 WTOL-DT 7 KOCO-DT	app dismissed FC to Univision NS 20.4kw/342m LC for PG<80kw/396m NW, 2.4kw, 42-01-55/76-47-02, 3ABN NW, 3.1kw, 40-53-50/72-54-56 on central Long Island LC FC to Telefutura QG from ch. 25, 140kw FC to Univision QR from ch. 51, 29kw PR<735kw/263m NS 34kw/430m NW 130w, 35-33-59/ 97-28-28; "New Value Club"	Abilene Alvin Austin Baytown Brownsville Brownsville Bryan Corpus Christi Corpus Christi Dallas El Paso Floresville Fort Worth Galveston Garland Georgetown Houston	67 KTFH 49 KBVO-CA 57 KAZH 20 KZAV-LP 23 KVEO 34 KRHD-LP 41 KCRP-LP 45 KXCC-LP 39 KXTX-TV 65 KKWB 45 K45EX 52 KFWD 47 KTMD-DT 48 KTMD 23 KUVN 28 KHPX-LP 20 KTXH	QG from ch. 54 FC to Telefutura FC to Telefutura FC to Azteca America FC to ATT religion LC for XG 26-06-02/97-50-20 adds WB to ABC FC to Telefutura FC to Telefutura FC to Telefutura FC to Telefutura; CC to KTFN (not yet official) FC to Telefutura FC to independent (English) PR>430kw/597m, 29-34-15/95-30-37 PR>5010kw/597m, 29-34-15/95-30-37 PR>544m, 32-35-19/96-58-05 PR<7.4kw, 30-36-04/97-39-34 LC for PG>578m, 29-33-44/95-30-35
Winnemucca New Jersey: Vineland New York: Binghamton Buffalo Elmira New York New York New York Smithtown Ohio: Cincinnati Cleveland Dayton Toledo Oklahoma: Oklahoma City Oregon:	2 new-LP 65 WUVP 7 WBNG-DT 4 WIVB-TV 21 W21BW 26 W26CE 35 WNYX-LP 67 WFTY 38 WBQC-CA 61 WQHS-TV 40 WRCX-LP 17 WTOL-DT 7 KOCO-DT 7 KOHC-LP	app dismissed FC to Univision NS 20.4kw/342m LC for PG<80kw/396m NW, 2.4kw, 42-01-55/76-47-02, 3ABN NW, 3.1kw, 40-53-50/72-54-56 on central Long Island LC FC to Telefutura QG from ch. 25, 140kw FC to Univision QR from ch. 51, 29kw PR<735kw/263m NS 34kw/430m NW 130w, 35-33-59/ 97-28-28; "New Value Club" shopping	AbileneAlvinAustinBaytownBrownsvilleBrownsvilleBrownsvilleBrownsvilleBryanCorpus ChristiDallasEl PasoFloresvilleFort WorthGalvestonGarlandGeorgetownHoustonKilleen	 67 KTFH 49 KBVO-CA 57 KAZH 20 KZAV-LP 23 KVEO 34 KRHD-LP 41 KCRP-LP 45 KACC-LP 39 KXTX-TV 65 KKWB 45 K45EX 52 KFWD 47 KTMD-DT 48 KTMD 23 KUVN 28 KHPX-LP 20 KTXH 62 KAKW 	QG from ch. 54 FC to Telefutura FC to Telefutura FC to Azteca America FC to Azteca America FC to FTN religion LC for XG 26-06-02/97-50-20 adds WB to ABC FC to Telefutura FC to Telefutura FC to Telefutura FC to Telefutura; CC to KTFN (not yet official) FC to Telefutura FC to independent (English) PR>430kw/597m, 29-34-15/95-30-37 PR>5010kw/597m, 29-34-15/95-30-37 PR>544m, 32-35-19/96-58-05 PR<7.4kw, 30-36-04/97-39-34 LC for PG>578m, 29-33-44/95-30-35 FC to Univision
Winnemucca New Jersey: Vineland New York: Binghamton Buffalo Elmira New York New York New York Smithtown Ohio: Cincinnati Cleveland Dayton Toledo Oklahoma: Oklahoma City Oklahoma City	2 new-LP 65 WUVP 7 WBNG-DT 4 WIVB-TV 21 W21BW 26 W26CE 35 WNYX-LP 67 WFTY 38 WBQC-CA 61 WQHS-TV 40 WRCX-LP 17 WTOL-DT 7 KOCO-DT 7 KOHC-LP 26 K68AH	app dismissed FC to Univision NS 20.4kw/342m LC for PG<80kw/396m NW, 2.4kw, 42-01-55/76-47-02, 3ABN NW, 3.1kw, 40-53-50/72-54-56 on central Long Island LC FC to Telefutura QG from ch. 25, 140kw FC to Univision QR from ch. 51, 29kw PR<735kw/263m NS 34kw/430m NW 130w, 35-33-59/ 97-28-28; "New Value Club" shopping LC for QG from ch. 68 LC for QG from ch. 68 LC for QG from ch. 62,	AbileneAlvinAustinBaytownBrownsvilleBrownsvilleBrownsvilleBrownsvilleBryanCorpus ChristiDallasEl PasoFloresvilleFort WorthGalvestonGarlandGeorgetownHoustonKilleen	 67 KTFH 49 KBVO-CA 57 KAZH 20 KZAV-LP 23 KVEO 34 KRHD-LP 41 KCRP-LP 45 KACC-LP 39 KXTX-TV 65 KKWB 45 K45EX 52 KFWD 47 KTMD-DT 48 KTMD 23 KUVN 28 KHPX-LP 20 KTXH 62 KAKW 	QG from ch. 54 FC to Telefutura FC to Telefutura FC to Azteca America FC to Azteca America FC to FTN religion LC for XG 26-06-02/97-50-20 adds WB to ABC FC to Telefutura FC to Telefutura FC to Telefutura FC to Telefutura; CC to KTFN (not yet official) FC to Telefutura FC to independent (English) PR>430kw/597m, 29-34-15/95-30-37 PR>5010kw/597m, 29-34-15/95-30-37 PR>544m, 32-35-19/96-58-05 PR<7.4kw, 30-36-04/97-39-34 LC for PG>578m, 29-33-44/95-30-35 FC to Univision
Winnemucca New Jersey: Vineland New York: Binghamton Buffalo Elmira New York New York New York Smithtown Ohio: Cincinnati Cleveland Dayton Toledo Oklahoma: Oklahoma City Oregon: Elgin Elgin	2 new-LP 65 WUVP 7 WBNG-DT 4 WIVB-TV 21 W21BW 26 W26CE 35 WNYX-LP 67 WFTY 38 WBQC-CA 61 WQHS-TV 40 WRCX-LP 17 WTOL-DT 7 KOCO-DT 7 KOHC-LP 26 K68AH 33 K62BK	app dismissed FC to Univision NS 20.4kw/342m LC for PG<80kw/396m NW, 2.4kw, 42-01-55/76-47-02, 3ABN NW, 3.1kw, 40-53-50/72-54-56 on central Long Island LC FC to Telefutura QG from ch. 25, 140kw FC to Univision QR from ch. 51, 29kw PR<735kw/263m NS 34kw/430m NW 130w, 35-33-59/ 97-28-28; "New Value Club" shopping LC for QG from ch. 68	AbileneAlvinAustinBaytownBrownsvilleBrownsvilleBrownsvilleBrownsvilleBryanCorpus ChristiDallasEl PasoFloresvilleFort WorthGalvestonGarlandGeorgetownHoustonKilleen	 67 KTFH 49 KBVO-CA 57 KAZH 20 KZAV-LP 23 KVEO 34 KRHD-LP 41 KCRP-LP 45 KACC-LP 39 KXTX-TV 65 KKWB 45 K45EX 52 KFWD 47 KTMD-DT 48 KTMD 23 KUVN 28 KHPX-LP 20 KTXH 62 KAKW 	QG from ch. 54 FC to Telefutura FC to Telefutura FC to Azteca America FC to FTN religion LC for XG 26-06-02/97-50-20 adds WB to ABC FC to Telefutura FC to Telefutura FC to America's Store FC to Telefutura; CC to KTFN (not yet official) FC to Telefutura FC to independent (English) PR>430kw/597m, 29-34-15/95-30-37 PR>5010kw/597m, 29-34-15/95-30-37 PR>544m, 32-35-19/96-58-05 PR<7.4kw, 30-36-04/97-39-34 LC for PG>578m, 29-33-44/95-30-35 FC to Univision FC to FTN religion
Winnemucca New Jersey: Vineland New York: Binghamton Buffalo Elmira New York New York New York Smithtown Ohio: Cincinnati Cleveland Dayton Toledo Oklahoma: Oklahoma City Oregon: Elgin Elgin Elgin Elgin Lubbock	2 new-LP 65 WUVP 7 WBNG-DT 4 WIVB-TV 21 W21BW 26 W26CE 35 WNYX-LP 67 WFTY 38 WBQC-CA 61 WQHS-TV 40 WRCX-LP 17 WTOL-DT 7 KOCO-DT 7 KOHC-LP 26 K68AH 33 K62BK 4 new-LP	app dismissed FC to Univision NS 20.4kw/342m LC for PG<80kw/396m NW, 2.4kw, 42-01-55/76-47-02, 3ABN NW, 3.1kw, 40-53-50/72-54-56 on central Long Island LC FC to Telefutura QG from ch. 25, 140kw FC to Univision QR from ch. 51, 29kw PR<735kw/263m NS 34kw/430m NW 130w, 35-33-59/ 97-28-28; "New Value Club" shopping LC for QG from ch. 68 LC for QG from ch. 68 LC for QG from ch. 62, app dismissed	Abilene Alvin Austin Baytown Brownsville Brownsville Bryan Corpus Christi Corpus Christi Dallas El Paso Floresville Fort Worth Galveston Galveston Garland Georgetown Houston Killeen Laredo	67 KTFH 49 KBVO-CA 57 KAZH 20 KZAV-LP 23 KVEO 34 KRHD-LP 41 KCRP-LP 45 KXCC-LP 39 KXTX-TV 65 KKWB 45 K45EX 52 KFWD 47 KTMD-DT 48 KTMD 23 KUVN 28 KHPX-LP 20 KTXH 62 KAKW 25 KZLD-LP	QG from ch. 54 FC to Telefutura FC to Telefutura FC to Azteca America FC to FTN religion LC for XG 26-06-02/97-50-20 adds WB to ABC FC to Telefutura FC to Telefutura FC to Telefutura; CC to KTFN (not yet official) FC to Telefutura FC to independent (English) PR>430kw/597m, 29-34-15/95-30-37 PR>5010kw/597m, 29-34-15/95-30-37 PR>544m, 32-35-19/96-58-05 PR<7.4kw, 30-36-04/97-39-34 LC for PG>578m, 29-33-44/95-30-35 FC to Univision FC to FTN religion 29-26-30/98-30-23
Winnemucca New Jersey: Vineland New York: Binghamton Buffalo Elmira New York New York New York Smithtown Ohio: Cincinnati Cleveland Dayton Toledo Oklahoma: Oklahoma City Oregon: Elgin Elgin Elgin Elgin Lubbock	2 new-LP 65 WUVP 7 WBNG-DT 4 WIVB-TV 21 W21BW 26 W26CE 35 WNYX-LP 67 WFTY 38 WBQC-CA 61 WQHS-TV 40 WRCX-LP 17 WTOL-DT 7 KOCO-DT 7 KOHC-LP 26 K68AH 33 K62BK 4 new-LP	app dismissed FC to Univision NS 20.4kw/342m LC for PG<80kw/396m	AbileneAlvinAustinBaytownBrownsville <td> 67 KTFH 49 KBVO-CA 57 KAZH 20 KZAV-LP 23 KVEO 34 KRHD-LP 41 KCRP-LP 45 KACC-LP 39 KXTX-TV 65 KKWB 45 K45EX 52 KFWD 47 KTMD-DT 28 KHPX-LP 20 KTXH 62 KAKW 25 KZLD-LP 47 KFTO-LP </td> <td>QG from ch. 54 FC to Telefutura FC to Telefutura FC to Azteca America FC to FTN religion LC for XG 26-06-02/97-50-20 adds WB to ABC FC to Telefutura FC to Telefutura FC to Telefutura; CC to KTFN (not yet official) FC to Telefutura FC to independent (English) PR>430kw/597m, 29-34-15/95-30-37 PR>5010kw/597m, 29-34-15/95-30-37 PR>544m, 32-35-19/96-58-05 PR<7.4kw, 30-36-04/97-39-34 LC for PG>578m, 29-33-44/95-30-35 FC to Univision FC to FTN religion 29-26-30/98-30-23 FC to Telefutura PR<480kw/457m, 29-16-11/98-15-55</td>	 67 KTFH 49 KBVO-CA 57 KAZH 20 KZAV-LP 23 KVEO 34 KRHD-LP 41 KCRP-LP 45 KACC-LP 39 KXTX-TV 65 KKWB 45 K45EX 52 KFWD 47 KTMD-DT 28 KHPX-LP 20 KTXH 62 KAKW 25 KZLD-LP 47 KFTO-LP 	QG from ch. 54 FC to Telefutura FC to Telefutura FC to Azteca America FC to FTN religion LC for XG 26-06-02/97-50-20 adds WB to ABC FC to Telefutura FC to Telefutura FC to Telefutura; CC to KTFN (not yet official) FC to Telefutura FC to independent (English) PR>430kw/597m, 29-34-15/95-30-37 PR>5010kw/597m, 29-34-15/95-30-37 PR>544m, 32-35-19/96-58-05 PR<7.4kw, 30-36-04/97-39-34 LC for PG>578m, 29-33-44/95-30-35 FC to Univision FC to FTN religion 29-26-30/98-30-23 FC to Telefutura PR<480kw/457m, 29-16-11/98-15-55
Winnemucca New Jersey: Vineland New York: Binghamton Buffalo Elmira New York New York Smithtown Ohio: Cincinnati Cleveland Dayton Toledo Oklahoma: Oklahoma City Oklahoma City Oklahoma City	2 new-LP 65 WUVP 7 WBNG-DT 4 WIVB-TV 21 W21BW 26 W26CE 35 WNYX-LP 67 WFTY 38 WBQC-CA 61 WQHS-TV 40 WRCX-LP 17 WTOL-DT 7 KOCO-DT 7 KOCO-DT 7 KOHC-LP 26 K68AH 33 K62BK 4 new-LP 45 K45FE	app dismissed FC to Univision NS 20.4kw/342m LC for PG<80kw/396m NW, 2.4kw, 42-01-55/76-47-02, 3ABN NW, 3.1kw, 40-53-50/72-54-56 on central Long Island LC FC to Telefutura QG from ch. 25, 140kw FC to Univision QR from ch. 51, 29kw PR<735kw/263m NS 34kw/430m NW 130w, 35-33-59/ 97-28-28; "New Value Club" shopping LC for QG from ch. 68 LC for QG from ch. 68 LC for QG from ch. 62, app dismissed LC for QG from ch. 64,	AbileneAlvinAustinBaytownBrownsville <td> 67 KTFH 49 KBVO-CA 57 KAZH 20 KZAV-LP 23 KVEO 34 KRHD-LP 41 KCRP-LP 45 KACC-LP 39 KXTX-TV 65 KKWB 45 K45EX 52 KFWD 47 KTMD-DT 28 KHPX-LP 20 KTXH 62 KAKW 25 KZLD-LP 47 KFTO-LP </td> <td>QG from ch. 54 FC to Telefutura FC to Telefutura FC to Azteca America FC to FTN religion LC for XG 26-06-02/97-50-20 adds WB to ABC FC to Telefutura FC to Telefutura FC to Telefutura; CC to KTFN (not yet official) FC to Telefutura FC to independent (English) PR>430kw/597m, 29-34-15/95-30-37 PR>5010kw/597m, 29-34-15/95-30-37 PR>544m, 32-35-19/96-58-05 PR<7.4kw, 30-36-04/97-39-34 LC for PG>578m, 29-33-44/95-30-35 FC to Univision FC to FTN religion 29-26-30/98-30-23 FC to Telefutura PR<480kw/457m, 29-16-11/98-15-55 FC to Telefutura</td>	 67 KTFH 49 KBVO-CA 57 KAZH 20 KZAV-LP 23 KVEO 34 KRHD-LP 41 KCRP-LP 45 KACC-LP 39 KXTX-TV 65 KKWB 45 K45EX 52 KFWD 47 KTMD-DT 28 KHPX-LP 20 KTXH 62 KAKW 25 KZLD-LP 47 KFTO-LP 	QG from ch. 54 FC to Telefutura FC to Telefutura FC to Azteca America FC to FTN religion LC for XG 26-06-02/97-50-20 adds WB to ABC FC to Telefutura FC to Telefutura FC to Telefutura; CC to KTFN (not yet official) FC to Telefutura FC to independent (English) PR>430kw/597m, 29-34-15/95-30-37 PR>5010kw/597m, 29-34-15/95-30-37 PR>544m, 32-35-19/96-58-05 PR<7.4kw, 30-36-04/97-39-34 LC for PG>578m, 29-33-44/95-30-35 FC to Univision FC to FTN religion 29-26-30/98-30-23 FC to Telefutura PR<480kw/457m, 29-16-11/98-15-55 FC to Telefutura
Winnemucca New Jersey: Vineland New York: Binghamton Buffalo Elmira New York New York Smithtown Ohio: Cincinnati Cleveland Dayton Toledo Oklahoma: Oklahoma City Oklahoma City Oklahoma City Oklahoma City	2 new-LP 65 WUVP 7 WBNG-DT 4 WIVB-TV 21 W21BW 26 W26CE 35 WNYX-LP 67 WFTY 38 WBQC-CA 61 WQHS-TV 40 WRCX-LP 17 WTOL-DT 7 KOCO-DT 7 KOCO-DT 7 KOHC-LP 26 K68AH 33 K62BK 4 new-LP 45 K45FE 35 KZMC-LP	app dismissed FC to Univision NS 20.4kw/342m LC for PG<80kw/396m	AbileneAlvinAustinBaytownBrownsville <td> 67 KTFH 49 KBVO-CA 57 KAZH 20 KZAV-LP 23 KVEO 34 KRHD-LP 41 KCRP-LP 45 KACC-LP 39 KXTX-TV 65 KKWB 45 K45EX 52 KFWD 47 KTMD-DT 28 KHPX-LP 20 KTXH 62 KAKW 25 KZLD-LP 47 KFTO-LP 58 KMOL-DT </td> <td>QG from ch. 54 FC to Telefutura FC to Telefutura FC to Azteca America FC to FTN religion LC for XG 26-06-02/97-50-20 adds WB to ABC FC to Telefutura FC to Telefutura FC to America's Store FC to Telefutura; CC to KTFN (not yet official) FC to Telefutura FC to independent (English) PR>430kw/597m, 29-34-15/95-30-37 PR>5010kw/597m, 29-34-15/95-30-37 PR>544m, 32-35-19/96-58-05 PR<7.4kw, 30-36-04/97-39-34 LC for PG>578m, 29-33-44/95-30-35 FC to Univision FC to FTN religion 29-26-30/98-30-23 FC to Telefutura PR<480kw/457m, 29-16-11/98-15-55</td>	 67 KTFH 49 KBVO-CA 57 KAZH 20 KZAV-LP 23 KVEO 34 KRHD-LP 41 KCRP-LP 45 KACC-LP 39 KXTX-TV 65 KKWB 45 K45EX 52 KFWD 47 KTMD-DT 28 KHPX-LP 20 KTXH 62 KAKW 25 KZLD-LP 47 KFTO-LP 58 KMOL-DT 	QG from ch. 54 FC to Telefutura FC to Telefutura FC to Azteca America FC to FTN religion LC for XG 26-06-02/97-50-20 adds WB to ABC FC to Telefutura FC to Telefutura FC to America's Store FC to Telefutura; CC to KTFN (not yet official) FC to Telefutura FC to independent (English) PR>430kw/597m, 29-34-15/95-30-37 PR>5010kw/597m, 29-34-15/95-30-37 PR>544m, 32-35-19/96-58-05 PR<7.4kw, 30-36-04/97-39-34 LC for PG>578m, 29-33-44/95-30-35 FC to Univision FC to FTN religion 29-26-30/98-30-23 FC to Telefutura PR<480kw/457m, 29-16-11/98-15-55
Winnemucca New Jersey: Vineland New York: Binghamton Buffalo Elmira New York New York Smithtown Ohio: Cincinnati Cleveland Dayton Toledo Oklahoma: Oklahoma City Oklahoma City Oklahoma City Oklahoma City	2 new-LP 65 WUVP 7 WBNG-DT 4 WIVB-TV 21 W21BW 26 W26CE 35 WNYX-LP 67 WFTY 38 WBQC-CA 61 WQHS-TV 40 WRCX-LP 17 WTOL-DT 7 KOCO-DT 7 KOCO-DT 7 KOHC-LP 26 K68AH 33 K62BK 4 new-LP 45 K45FE 35 KZMC-LP	app dismissed FC to Univision NS 20.4kw/342m LC for PG<80kw/396m	AbileneAlvinAustinBaytownBrownsville <td> 67 KTFH 49 KBVO-CA 57 KAZH 20 KZAV-LP 23 KVEO 34 KRHD-LP 41 KCRP-LP 45 KACC-LP 39 KXTX-TV 65 KKWB 45 K45EX 52 KFWD 47 KTMD-DT 28 KHPX-LP 20 KTXH 62 KAKW 25 KZLD-LP 47 KFTO-LP 58 KMOL-DT 67 KDWZ-LP </td> <td>QG from ch. 54 FC to Telefutura FC to Telefutura FC to Azteca America FC to FTN religion LC for XG 26-06-02/97-50-20 adds WB to ABC FC to Telefutura FC to Telefutura FC to Telefutura; CC to KTFN (not yet official) FC to Telefutura FC to independent (English) PR>430kw/597m, 29-34-15/95-30-37 PR>5010kw/597m, 29-34-15/95-30-37 PR>544m, 32-35-19/96-58-05 PR<7.4kw, 30-36-04/97-39-34 LC for PG>578m, 29-33-44/95-30-35 FC to Univision FC to FTN religion 29-26-30/98-30-23 FC to Telefutura PR<480kw/457m, 29-16-11/98-15-55 FC to Telefutura</td>	 67 KTFH 49 KBVO-CA 57 KAZH 20 KZAV-LP 23 KVEO 34 KRHD-LP 41 KCRP-LP 45 KACC-LP 39 KXTX-TV 65 KKWB 45 K45EX 52 KFWD 47 KTMD-DT 28 KHPX-LP 20 KTXH 62 KAKW 25 KZLD-LP 47 KFTO-LP 58 KMOL-DT 67 KDWZ-LP 	QG from ch. 54 FC to Telefutura FC to Telefutura FC to Azteca America FC to FTN religion LC for XG 26-06-02/97-50-20 adds WB to ABC FC to Telefutura FC to Telefutura FC to Telefutura; CC to KTFN (not yet official) FC to Telefutura FC to independent (English) PR>430kw/597m, 29-34-15/95-30-37 PR>5010kw/597m, 29-34-15/95-30-37 PR>544m, 32-35-19/96-58-05 PR<7.4kw, 30-36-04/97-39-34 LC for PG>578m, 29-33-44/95-30-35 FC to Univision FC to FTN religion 29-26-30/98-30-23 FC to Telefutura PR<480kw/457m, 29-16-11/98-15-55 FC to Telefutura
 Winnemucca New Jersey: Vineland New York: Binghamton Buffalo Elmira New York New York Smithtown Ohio: Cincinnati Cleveland Dayton Toledo Oklahoma: Oklahoma City Oklahoma City Oregon: Elgin Elgin Elgin Lubbock Matador McAllen Round Rock 	2 new-LP 65 WUVP 7 WBNG-DT 4 WIVB-TV 21 W21BW 26 W26CE 35 WNYX-LP 67 WFTY 38 WBQC-CA 61 WQHS-TV 40 WRCX-LP 17 WTOL-DT 7 KOCO-DT 7 KOCO-DT 7 KOHC-LP 26 K68AH 33 K62BK 4 new-LP 45 K45FE 35 KZMC-LP 15 KHPZ-LP 7 KJLF-LP	app dismissed FC to Univision NS 20.4kw/342m LC for PG<80kw/396m	AbileneAlvinAustinBaytownBrownsville <td> 67 KTFH 49 KBVO-CA 57 KAZH 20 KZAV-LP 23 KVEO 34 KRHD-LP 41 KCRP-LP 45 KACC-LP 39 KXTX-TV 65 KKWB 45 K45EX 52 KFWD 47 KTMD-DT 28 KHPX-LP 20 KTXH 62 KAKW 25 KZLD-LP 47 KFTO-LP 58 KMOL-DT 67 KDWZ-LP 55 KIDB-CA </td> <td>QG from ch. 54 FC to Telefutura FC to Telefutura FC to Azteca America FC to FTN religion LC for XG 26-06-02/97-50-20 adds WB to ABC FC to Telefutura FC to Telefutura FC to Telefutura; CC to KTFN (not yet official) FC to Telefutura FC to independent (English) PR>430kw/597m, 29-34-15/95-30-37 PR>5010kw/597m, 29-34-15/95-30-37 PR>544m, 32-35-19/96-58-05 PR<7.4kw, 30-36-04/97-39-34 LC for PG>578m, 29-33-44/95-30-35 FC to Univision FC to FTN religion 29-26-30/98-30-23 FC to Telefutura PR<480kw/457m, 29-16-11/98-15-55 FC to Telefutura CC from K35EK</td>	 67 KTFH 49 KBVO-CA 57 KAZH 20 KZAV-LP 23 KVEO 34 KRHD-LP 41 KCRP-LP 45 KACC-LP 39 KXTX-TV 65 KKWB 45 K45EX 52 KFWD 47 KTMD-DT 28 KHPX-LP 20 KTXH 62 KAKW 25 KZLD-LP 47 KFTO-LP 58 KMOL-DT 67 KDWZ-LP 55 KIDB-CA 	QG from ch. 54 FC to Telefutura FC to Telefutura FC to Azteca America FC to FTN religion LC for XG 26-06-02/97-50-20 adds WB to ABC FC to Telefutura FC to Telefutura FC to Telefutura; CC to KTFN (not yet official) FC to Telefutura FC to independent (English) PR>430kw/597m, 29-34-15/95-30-37 PR>5010kw/597m, 29-34-15/95-30-37 PR>544m, 32-35-19/96-58-05 PR<7.4kw, 30-36-04/97-39-34 LC for PG>578m, 29-33-44/95-30-35 FC to Univision FC to FTN religion 29-26-30/98-30-23 FC to Telefutura PR<480kw/457m, 29-16-11/98-15-55 FC to Telefutura CC from K35EK
 Winnemucca New Jersey: Vineland New York: Binghamton Buffalo Elmira New York New York Smithtown Ohio: Cincinnati Cleveland Dayton Toledo Oklahoma: Oklahoma City Oklahoma City Oklahoma City Oregon: Elgin Elgin Elgin Elgin Lubbock Matador McAllen Round Rock San Antonio 	2 new-LP 65 WUVP 7 WBNG-DT 4 WIVB-TV 21 W21BW 26 W26CE 35 WNYX-LP 67 WFTY 38 WBQC-CA 61 WQHS-TV 40 WRCX-LP 17 WTOL-DT 7 KOCO-DT 7 KOCO-DT 7 KOHC-LP 26 K68AH 33 K62BK 4 new-LP 45 K45FE 35 KZMC-LP 15 KHPZ-LP	app dismissed FC to Univision NS 20.4kw/342m LC for PG<80kw/396m	AbileneAlvinAustinBaytownBrownsville <td> 67 KTFH 49 KBVO-CA 57 KAZH 20 KZAV-LP 23 KVEO 34 KRHD-LP 41 KCRP-LP 55 KXCC-LP 39 KXTX-TV 65 KKWB 45 K45EX 52 KFWD 47 KTMD-DT 48 KTMD 23 KUVN 28 KHPX-LP 20 KTXH 62 KAKW 55 KZLD-LP 47 KFTO-LP 58 KMOL-DT 67 KDWZ-LP 55 KIDB-CA 9 KCEN-LP </td> <td>QG from ch. 54 FC to Telefutura FC to Telefutura FC to Azteca America FC to FTN religion LC for XG 26-06-02/97-50-20 adds WB to ABC FC to Telefutura FC to Telefutura FC to America's Store FC to Telefutura; CC to KTFN (not yet official) FC to Telefutura FC to independent (English) PR>430kw/597m, 29-34-15/95-30-37 PR>5010kw/597m, 29-34-15/95-30-37 PR>5010kw/597m, 29-34-15/95-30-37 PR>544m, 32-35-19/96-58-05 PR<7.4kw, 30-36-04/97-39-34 LC for PG>578m, 29-33-44/95-30-35 FC to Univision FC to FTN religion 29-26-30/98-30-23 FC to Telefutura PR<480kw/457m, 29-16-11/98-15-55 FC to Telefutura CC from K35EK QG from ch. 50, 25kw/527m</td>	 67 KTFH 49 KBVO-CA 57 KAZH 20 KZAV-LP 23 KVEO 34 KRHD-LP 41 KCRP-LP 55 KXCC-LP 39 KXTX-TV 65 KKWB 45 K45EX 52 KFWD 47 KTMD-DT 48 KTMD 23 KUVN 28 KHPX-LP 20 KTXH 62 KAKW 55 KZLD-LP 47 KFTO-LP 58 KMOL-DT 67 KDWZ-LP 55 KIDB-CA 9 KCEN-LP 	QG from ch. 54 FC to Telefutura FC to Telefutura FC to Azteca America FC to FTN religion LC for XG 26-06-02/97-50-20 adds WB to ABC FC to Telefutura FC to Telefutura FC to America's Store FC to Telefutura; CC to KTFN (not yet official) FC to Telefutura FC to independent (English) PR>430kw/597m, 29-34-15/95-30-37 PR>5010kw/597m, 29-34-15/95-30-37 PR>5010kw/597m, 29-34-15/95-30-37 PR>544m, 32-35-19/96-58-05 PR<7.4kw, 30-36-04/97-39-34 LC for PG>578m, 29-33-44/95-30-35 FC to Univision FC to FTN religion 29-26-30/98-30-23 FC to Telefutura PR<480kw/457m, 29-16-11/98-15-55 FC to Telefutura CC from K35EK QG from ch. 50, 25kw/527m

		29-34-16/95-30-38 in the Houston tower farm	Green Bay	30 W30BU	PR>14.7kw
Waco	25 KXXV	adds WB to ABC			
<u>Utah:</u>			Wyoming:		
Henrieville	9 K10KA	LC for QG from ch. 10	Gillette	24 K24PP	QG from K22AD, 27.5kw,
<u>Utah:</u> Henrieville	11 K08IT	LC for QG from ch. 8	Puerto Rico:		KNBN-27 NBC
Henrieville	13 K12KQ	LC for QG from ch. 12	Mayaguez	23 WNJX-DT	NS 400kw/665m
Henrieville	16 new-LP	NW?			
Henrieville	22 new-LP	NW?	Canada:		
Wayne County	39 K13CY	QC from ch. 13, 0.01kw, 38-30-38/111-47-05	British Columb Pemberton	<u>25 new</u>	AF 5w 50-19-19/122-47-38,
Virginia:		56-56-56/111-47-65	remotion	25 new	Discovery
Farmville	28 WFMA-LP	QG from ch. 52, 33kw,	Pemberton	28 new	AF 5w 50-19-19/122-47-38,
		37-13-38/77-23-25			CIVT-32 CTV
Harrisonburg	49 WHSV-DT	NS 88.2kw/646m	Pemberton	30 new	AF 5w 50-19-19/122-47-38,
Keysville	45 WKYV-LP	QG from ch. 61, 50kw, 37-33-51/77-27-28 near	Danshantan Vall	··· 2 ·· ··· AE 10··	TBS
		Richmond	Penderton van	ey 2 new AF 10v	v 50-18-50/122-49-39, Discovery
Manassas	43 WPXW-DT	PR>350kw	Pemberton Valle	ev 10 new AF 10v	v 50-18-50/122-49-39,
11111111105405			1 01110 01 0011 (011	• • • • • • • • • • • • • • • • • • • •	CIVT-32 CTV
Washington:			Pemberton Valle	ey 13 new AF 10w	v 50-18-50/122-49-39,
Vancouver	48 KPDX-DT	PG>1000kw			TBS
TT 7 • •			Quebec:		DC 15001
<u>Wisconsin:</u> Bloomington	22 W22CI	QC from ch. 49, 0.64kw	Trois-Rivieres	45 CIVC-TV	PG>1500kw
Bloomington Grantsburg	22 W22CI 24 W24CL	QC from ch. 39, 0.68kw			
g		C = = = = = = = , or oom //			

Forum & Other Stuff

Thanks to Bill Eckburg, Dennis Smith, Scott Fybush, Pat Dyer, Ed Ellers, Fred McCormack, Eric Bueneman, Fernando Garcia, and John Zondlo for information elsewhere in this month's column.

January was a slow month in Washington. Do note that the long-haul LPTV moves continue, this month especially in Michigan. Don't let one of these catch you by surprise. Note also a few permits for new LPTV stations. These permits have been awarded through spectrum auctions. Expect to see more.

KNME-DT in Albuquerque is reported operating temporarily at very reduced power, just a few hundred watts. With its transmitter atop Sandia Crest it probably still covers the city pretty well.

The new Telefutura network launched in early January. The affiliate lineup still seems to be shaking out. If you notice any of your locals carrying this network, I'd love to know about it.

Eric Bueneman notes K34BR moved to channel 59. Despite the channel change, the listed call letters are still K34BR... John Zondlo saw KOHC-LP on channel 7 with the "New Value Club" - yet another shopping channel.

Scott Fybush writes to explain where the new WCBS-2 auxiliary site is. It's the Viacom Building at 1515 Broadway. As you may remember, Viacom recently bought CBS. This building is also the auxiliary site for WCBS-FM and WXRK-FM. It's also "...practically next door to Four Times Square (aka the Conde Nast Building), home to the WHTZ/WKTU/WAXQ/WTJM/WLTW (FM) aux site.".

I should put in a good word for Scott's website on http://www.fybush.com . Excellent information on radio and TV goings-on in the Northeast and adjoining areas of Canada.

My predecessor Fred McCormack noted K38FX on the KXND-24 signoff. The station isn't in the CDBS database, but it probably holds a STA which usually doesn't appear. KQDS-21 in Duluth also has several of these "STA" translators, as does KDLT-46 in South Dakota. The FCC database does list an <u>application</u> for a channel 38 translator - citing the same transmitter location Fred saw mentioned on the KXND signoff - though with a higher power of 18.4kw. K38HA is also a KXND translator - apparently not mentioned in the primary's signoff slide, but present in the FCC database.

Ed Ellers wrote from Louisville with the information about WKQT-CA. They shut down on channel 26 on January 7, and were expected back on their new channel by the 10th. They're being displaced by WLKY-DT. The call change on this station (formerly WJYL-CA) snuck up on me; I don't remember seeing it in the Public Notices.

KJLF-LP is a bigger pest for Pat Dyer now. They've increased power from 120 watts and moved about 9 miles to the north. According to Pat, programming seems to come from a consumer VCR "with well-worn tape!". "AUTO REPLAY", then "PLAY" (in two different font sizes) appeared on the screen before the legal ID...

The network affiliation changes in San Francisco have now taken effect. KRON-4 becomes an independent. KNTV-11 switches from ABC to NBC. (And in a last-minute decision, NBC has purchased the station) There are still complaints of inadequate coverage; KNTV is licensed to San Jose, not San Francisco, and their transmitter is well south of the Mt. Sutro site used by the other major-network stations. For the time being, KNTV's programming is still being simulcast on a second virtual channel of formerly co-owned KBWB-DT 19. (which <u>does</u> transmit from San Francisco) However, this arrangement is unlikely to last much longer - and in any case it doesn't help those who have only analog receivers. NBC is discussing several possible ways of improving the situation, including subsidizing cable subscriptions and establishing STA translators or purchasing existing LPTV stations. KNTV promotes itself as "NBC3", its channel on cable in most Bay Area systems.

Dennis Smith saw a report on the KNTV network switch on KEYT-3 in December. Dennis asks, "what station in the Salinas-Monterey market will now provide ABC which KNTV-11 formerly did?" Good question. It's not at all impossible ABC expects people to watch KGO-7 on cable. On the other hand, I wouldn't be surprised to see another network switch in that area.

Dennis was also looking for the Tournament of Roses parade on cable channel 5, where he would normally find KTLA-5 Los Angeles. It's disappeared from Santa Barbara cable, replaced by "KWCA WB5 Santa Barbara". Dennis speculates it's a new cable-only station, and he's right. He did find KTLA being temporarily carried on the community-access channel 8, but it disappeared when the parade ended.

Oft-seen E-skip target XHHUPN-2 has a website http://www.gruposiete.com.mx/reynosa.html which indicates the station has moved from Matamoros to Reynosa. Reporter Howard Fountain near Atlanta has also seen two new stations in his general vicinity. WBIH-29 carries mostly Praise Network religious material, with a continuous ID. Also seen was WBIF-51 Marianna, Florida with "ASN" home shopping and several Reliant Intermedia infomercials. Again, a continuous ID was present. Finally, W24CB Sylacauga, Alabama showed up. They were carrying a SEC college basketball tournament, with local commercials and a local post-game show. The "fake calls" WJXS were shown - I don't know of any station (radio or TV) assigned those calls.

Bill Eckburg, among others, is now seeing WBQD-LP operating on channel 26. This station was bumped from channel 65 - but I don't think it ever operated on 65. As of January 7 it had been running color bars for over two weeks. The tower site plots south of East Moline; I can't find any other broadcast station using that site. Bill has also reported seeing the new WSKY-4 Manteo, NC - becoming the first DXer I'm aware of to do so. New station WKDH-45 has also made it to his location, along with the new calls on WJKT-16. (formerly WMTU)

The F2 has been on hiatus, but we've had a bunch of off-season Es. Here's hoping it continues!

HOW GOOD ARE MULTI-STANDARD TELEVISIONS?

At first, a multi-system TV receiver may seem the ideal choice for TV DX-ing but it does not address the complex reception problems encountered, particularly in VHF Bands I and III where interleaved channel allocations exist.

Multi-system receivers are mainly intended for the traveler or for use in countries where more than one TV system is available. The main drawback with such a receiver for DX-ing is its inherently wide vision I.F. bandwidth, which is necessary for high-definition pictures. Although good results may be obtained with local-quality signals, the shortcomings of such a receiver begin to show if attempting to resolve anything other than a strong solitary signal.

Other drawbacks associated with current TV receiver trends include video channel muting, when the signal level is considered inadequate for domestic viewing, plus complex set-up menus and tuning arrangements. The enthusiast relying on an `up-converter' device (VHF to UHF frequency converter) for viewing VHF signals via a UHF TV receiver will also experience shortcomings due to the use of the wide vision I.F. bandwidth of the TV. Not to mention the problem of locating the channel in the absence of a signal!

For several years, I have used a Blaupunkt BT 70 -25 VTM, NTSC, SECAM, and PAL 70cm multi-standard color TV. Because of the various reasons, as stated in the previous paragraph, I use this TV with the D100 TV tuner/convertor. -Todd Emslie, Sydney Australia



Most of the information appearing in this column is courtesy of: *M STREET JOURNAL – P.O. BOX 422 – LITTLETON, NEW HAMPSHIRE 03561 PHONE: (609) 883-3321, FAX: (609) 883-5696, E-MAIL: <u>MstreetTom@aol.com</u>*

KEY TO ABBREVIATIONS: &: satellite programming AF: New frequency	construction permit GX: granted replacement of expired permit LC: license to cover filed (means station is	PG: power change granted (">" for increase, "<" for decrease, when known) QC: frequency change occurred
allocation accepted	ready to come on air)	QG: frequency change
for filing for a new	MC: multiple-city legal	granted
FM license	ID	RA: silent station
AFA: American Family	NC: no change yet on a	returns to air
Association	reported	RE: station requests
CC: call letter change	change/permit	extension on permit
CL: city of license	ND: non-directional	RX: station requests
change	antenna	replacement of
CX: a construction permit	NO: not on the air	expired permit
has been canceled	NS: new station granted	SG: slogan change or
C1,C2,etc: a change in	NW: new station signs on	update
status to that FM	OSA: one-step application	
license class	granted for change	XA: dismissed amendment
DA: directional antenna	PA: proposed amendment to	to FM allocations
DE: station has been	change FM table of	XC: transmitter site
deleted	allocation	change occurred
FC: format change	PC: power change on the	XG: transmitter site
GA: granted amendment to	air (">" for increase,	change granted
the table of FM	"<" for decrease, when	
allocations	known)	
GE: granted extension of	Ital. Calls: LPFM station	



ALABAMA:

Pine Hill: WKXK 96.7 PG> 30 kW, 636 ft, C2 Valley: WRLD 95.3 PC> 25 kW, class C3, XC: 32-44-3 / 85-7-53

ALASKA:

Anchorage: KRUA88.1 inc. to 833í, XG: 61-20-11 / 149-30-48

ARIZONA:

Arizona City: KKRM 106.5 CC (ex KOMR) ìAmorî

Clifton: KWRQ102.1 PC> 4.3 kW, 2264í Phoenix: KZON 101.5 adds Howard Stern Sun City: KOMR106.3 CC (ex KOVA) iAmorî Wickenburg: KHOV 105.3 CC (ex KSSL) iLa Nueva 105.9 & 105.3î

ARKANSAS:

Des Arc: KBDO 91.7 PG> 75 kW (v), DA Huntsville: KREB 99.5 adds OMM reg. Mexican (&) Monticello: KHBM 93.7 PG> 23 kW, C2, 417í

CALIFORNIA:

Atwater: KBRE 92.5 CC (ex KJMQ), FC to rock

ìThe Bearî (Merced)

Barstow: KXXZ 95.9 PG> 8.9 kW, 486 ft, XG: 34-51-22 / 117-3-0

CALIFORNIA:

Carlsbad: KJQY 95.7 CC (ex KMSX) ìKool 95.7î Clovis: KZFO 92.1 PC 36.9 kW, 568 ft, class B, XC: 37-7-40 / 119-40-38, CL from Madera Columbia: KCVR 98.9 CC (ex KTDZ) ìTri-Colorî Lompoc: KRQZ 91.5 PG> 2 kW (v), B1, 1050í, DA, XG: 34-36-13 / 120-29-17

Ludlow: KHWZ 100.1 inc. 249í, XG: 34-42-34 / 116-9-2

McFarland: KPSL 102.9 PG 25 kW, 322í, XG: 35-19-16 / 119-42-26

Morro Bay: KLMM 94.1 PG 890w, 863í

Randsburg: KGBM 89.7 LC

San Diego: KMYI 94.1 CC (ex KMSX), FC to hot AC ìMy 80ís, My 90ísî

San Fran: KISQ 98.1 adds Tom Joyner San Fran: KKWV 93.3 FC to rhythmic AC iThe

Waveî CC (ex KYCY) COLORADO:

Holyhoke: KKYT 92.3 LC

CONNECTICUT:

New London: WNLC 98.7 played Christmas music Norfolk: WSGG 89.3 LC

DELAWARE:



Seaford: WGBG 98.5 FC to classic rock

FLORIDA:

Cocoa Beach: WJRR 101.1 FC to modern rock ìReal Rock 101-1î (Orlando)

Dade City: WMGG 96.1 FC to urban // WTMP

Englewood: WSRQ 105.9 CC (ex WYNF)

Fernandina Bch: WXGV 105.3 adds Bob & Sheri Key West: *NS 88.3 6 kW, 121 ft.

Miami:

WPYM 93.1 CC (ex WTMI), FC to dance ìParty 93.1î

- Murdock: WBCG 98.9 CC (ex WHHD) iBeach 98.9î
- Orlando: WWKA 92.3 PC 100 kW, 1490í XC: 28-34-07 / 81-03-16
- Orlando: WHTQ 96.5 dec. 1490í, XC: 28-34-07 / 81-03-16
- St. Augustine Bch: WYGV 105.5 adds Bob & Sheri
- St.Petersburg: WFJO 101.5 FC to 80is hits iThe Pointî (Tampa)

Titusville: WPIO 89.3 PC> 8 kW, 335 ft.

GEORGIA:

Albany: WGNP 90.7 PC 5.5 kW, 305í

- WSLE 102.3 PG> 9 kW, 1145í, C2, Cairo: XG: 30-40-6 / 83-58-6
- WYNF 96.5 CC (ex WJZY) iLove 102.5î Gray:

Mableton: WAMJ 102.5 FC to R&B oldies

- Savannah: WQBT 94.1 PG> 100 kW, C0, 1394í, XG: 32-2-45 / 81-20-27, CC (ex WSCA), FC to urban ìThe Beatî
- Savannah: WAEV 97.3 PG> 100 kW< 1394í, XG: 32-2-45 / 81-20-27
- Warner Robins: WELV 102.5 CC (ex WLCG), FC to smooth jazz ìLove 102.5î

Washington: WXKT 100.1 reported SI

Waycross: WASW 91.9 PG> 45 kW, class C2

IDAHO:

Rexburg: KGTM 98.1 inc. to 636 ft.

ILLINOIS:

Anna: WKIB 96.5 FC to CHR iMix 96.5î Lincolnshire: WAES 88.1 LC Loves Park: WKMQ 96.7 PG 2.2 kW, 551í, DA, XG: 42-21-48 / 89-8-6

Robinson: WTYE 101.7 FC to soft AC

Spring Valley: *NS 88.1 4 kW, 328 ft.

Tower Hill: WRAN 98.3 PC 3.7 kW, 420í, XC: 39-16-48 / 88-58-22

INDIANA:

Columbus: WINN 104.9 CC (ex WWWY) iGood Time Oldiesî

Crown Point: WXRD 103.9 FC to classic rock

Earl Park: WIBN 98.1 played Christmas music

Huntington: WEXI 102.9 FC to dance

- Ligonier: WGSN 102.7 PC 2 kW, 394í, XC: 41-27-52 / 85-44-40
- WZVN 107.1 RA with a/c Lowell:

Noblesville: WGRL 93.9 FC to 80ís hits ìRetro 93.9î

- N.Vernon: WWWY 106.1 CC (ex WINN) iRockin Hits Y 106î
- Vincennes: WFML 96.7 PG> 2150w, 386í, XG: 38-39-6 / 87-28-37

IOWA:

Parkersburg: KQCR 98.9 PC 6 kW, 328 ft, XC: 42-37-46 / 92-53-53 St.Agsnar: KJCY 95.5 PC> 6 kW, 328 ft, XC: 43-21-52 / 92-51-4

KANSAS:

Kansas City: KFKF 94.1 adds Lia nights

KENTUCKY:

Campbellsville: WAPD 91.7 PC 330w, 217 ft, XC: 37-17-59 / 85-19-53

Eminence: WTSZ 105.7 CC (ex WYKY) iSporting Newsî

Georgetown: WXZZ 103.3 PG 2.6 kW, 499 ft. WEKH 90.9 PC> 35 kW, 1066í, Hazard:

XC: 37-11-35 / 83-11-17 Morganfield: WMSK 95.3 PG 25 kW, C2, 256í

LOUISIANA:

Coushatta: KSBH 94.9 PG> 50 kW, C2, 492í, XG: 31-48-21 / 93-22-24 Jonesville: KTYX 105.1 XC: 31-36-21 / 91-50-6 Lacombe: WYLA 94.7 FC to rock, talk // WSJZ iExtreme Radioî (New Orleans) Natchitoches: KZBL 100.7 inc. to 276í Natchitoches: KDBH 97.3 dec to 220í, XG: 31-48-17 / 93-01-27 Oakdale: KKST 98.7 played Christmas mx Reserve: WSJZ 94.9 FC to rock, talk iExtreme Radioî (New Orleans) MAINE:

Augusta: WKCG 101.3 played Christmas mx Camden: WMEP 90.5 NW, news/classical WGUY 102.1 played Christmas m Dexter: Machias: WALZ 95.3 FC to JRN classic hits // WQDY Rockland: WMCM 103.3 PC< 16 kW

Windham: WMTW 106.7 FC to news

MASSACHUSETTS:

Newburyport: WNEF 91.7 PC>465w(v), DA, XG: 42-51-56 / 70-56-17



MICHIGAN:

- WSHN 100.1 PG 2.9 kW, 472í, DA, Holton: XG: 43-18-50 / 86-9-17
- Houghton: WOLV 97.7 PC 2.4 kW, XC: 47-8-6 / 88-33-53
- Houghton: WHKB 102.3 PG 6 kW, 328í, XG: 47-8-6 / 88-33-53
- Ishpeming: WJPD 92.3 inc. 509í, XG: 46-30-51 / 87-28-58
- Lake City: *NS 104.9 4.6 kW, 371 ft.
- WRXF 103.1 FC to rock // WWBN iThe Lapeer: Bananaî (Flint)
- Marquette: WFXD 103.3 inc. to 938í, XC: 46-36-14 / 87-37-15

Negaunee: WKQS 101.9 inc. 1007í, XC: 46-28-42 / 87-37-21

Traverse City: WLJN 88.9 PC> 39 kW (v

MINNESOTA:

Duluth: WNCB 89.3 PG> 2850w, C3, XG: 46-47-21 / 92-7-9

Hermantown: WWAX 92.1 PC 5.4 kW, 709í XC: 46-47-15 / 92-07-21

Lake City: KLCH 94.9 NW, hot AC

Sunburg: KLFN 106.5 PG 6 kW, 328í, XG: 45-22-13 / 95-8-26

Waseca: KRUE 92.1 RA with country

MISSISSIPPI:

Drew: WRKG 95.3 CC (ex WOHT), iThe Classic Rock Stationî Grenada: WOHT 92.3 CC (ex WGRG) State College: *NS 104.5 25 kW, 328 ft. Tunica: WYYL 96.1 FC to country iY96.1î, CC (ex WMPS) Tupelo: WAFR 88.3 PG> 75 kW (v), 492í, DA **MISSOURI:** Chaffee: KYRX 104.7 FC to soft AC Jefferson City: KLIK 104.1 CC (ex KJCQ) iClick 104î

Knob Noster: KXKX 105.7 dec. to 371í, XG: 38-45-3 / 93-27-16

Marble Hill: KREZ 97.3 FC to oldies

Moberly: KBKC 90.1 NW, AFA cont. Christian

Springfield: KSCV 90.1 PC> 9 kW, 492í, XC: 37-17-41 / 93-09-10

Stockton: KRLK 107.7 PG> 11.7 kW, C3, 479í XG: 37-31-24 / 93-52-40

MONTANA:

Cascade: KIKF 104.9 LC Great Falls: KINX 107.3 LC

NEBRASKA:

Beatrice: KTGL 92.9 adds Bob & Tom

NEVADA:

Pahrump: KNYE 95.1 NW, classic hits, talk

NEW HAMPSHIRE:

Conway: WVMJ 104.5 CC (ex WBNC), iValley 104.5î

NEW JERSEY:

S.Orange: WSOU 89.5 FC to modern rock

NEW MEXICO:

Albuquerque: KCHQ 101.3 FC to classic country ìThe Rangeî

Santa Fe: KRQS 105.1 FC to smooth jazz ìThe Horizonî (Albuquerque)

NEW YORK:

Center Moriches: WLVG 96.1 played Christmas mx Fairport: WBBF 93.3 PC 4.4 kW, 384í, CL from Avon, NY, XC: 43-10-37 / 77-28-39 Hudson Falls: WFFG 107.1 CL to Corinth, NY Lake Success: WKTU 103.5 PG> 6 kW, 1362í XG: 40-44-54 / 74-59-10

NORTH CAROLINA:

Grifton: WXNR 99.5 adds Lex & Terry Hertford: WFMZ 104.9 played Christmas mx Hickory: WPIR 88.1 PC 21 kW, 253í, DA, C2 Shallotte: WLTT 103.7 FC to news-talk // WCCA

Delphos: WBIE 91.5 NW, AFA contemp. Christian (&) (Lima) Mt.Vernon: WQIO 93.7 FC to soft AC Zanesville:WHIZ 102.5 XG: 39-55-42 / 81-59-7

OKLAHOMA:

Byng: KYKC 100.1 PC> 50 kW, 492, C2, XC: 34-51-11 / 96-45-52

Lawton: KJRF 91.1 LC

<u>OREGON:</u>

Bend: KNLR 97.5 played Christmas music Hood River: KQHR 90.1 LC Redmond: KWRX 88.5 inc. to 2198í, DA



PENNSYLVANIA:

Laporte: WQZI 103.9 RA with soft AC ìCozyî Mill Hall: WOJZ 98.7 CC (ex WLTS) ìSmooth Jazz 98.7î Murrysville: WUWJ 88.1 PC> 300 w, 246í, DA Pen Argyl: WWPJ 89.5 LC Philadelphia: WXTU 92.5 adds After Midnite Shamokin: WBLJ 93.3 FC to country // WBYL, CC (ex WISL), ìBill 95î Sharon: WYFM 102.9 PC 33 kW, 604 ft, XC: 41-03-26 / 80-38-22 State College: WLTS 94.5 CC (ex WFGI) ìLite and Easy 94.5î

<u>SOUTH CAROLINA:</u>

Florence: *NS 90.5 25 kW, 236í, DA Ravenel: WMGL 101.7 PG 5.3 kW, 430 ft, XG: 32-46-46 / 80-9-42

SOUTH DAKOTA:

Rapid City: KZLK 106.3 PC 10 kW, 315í

TENNESSEE:

Atwood: WTKB 93.7 PG> 21 kW, C2, 364í, XG: 36-0-53 / 88-38-30

Dickson: WQZQ 102.5 inc. 974í, XG: 36-17-36 / 87-18-20

Germantown: WMPS 107.5 FC to alternative // WMPS iThe Pigî (Memphis), CC (ex WYYL) Ripley: WAUV 89.7 PG> 5.3 kW

TEXAS:

Amarillo: KRGN 103.1 QG to 102.9, C1, 100 kW, 282 ft, XG: 35-15-39 / 101-52-52

Atwood: WTKB 93.7 PG> 21 kW, C3, 364í, XG: 36-0-53 / 88-38-30

Beaumont: KRPW 97.5 CC (ex KAYD), FC to urban ìPower 97.5î (Houston)

Brownwood: KPSM 99.3 PG 100 kW, C1, 446í

Caldwell: KLTR 95.1 LC

Edinburg: KBFM 104.1 inc.to 1224í, XC: 26-6-2 / 97-50-21

- Haltom City: KKMR 93.3 FC to classic rock iThe Boneî (Dallas)
- Hempstead: KEZB 105.3 FC to country

Highland Village: KWRD 100.7 PG 98 kW, 1988í, XG: 33-32-8 / 96-49-54

<u>OHIO:</u>

TEXAS:

KHYI 95.3 PG> 19 kW, C2, 801 ft. Howe: XG: 33-28-12 / 96-47-19 Lamesa: KBKN 91.3 NW, AFA cont. Christian (&) Monahans: KGEE 99.9 PC< 87 kW Palacios: KROY 99.7 SI Pampa: KAXH 90.9 PG> 7 kW, C3 Wichita Falls: KLLT 106.3 played Christmas mx, FC to AC ìMix 106î

UTAH:

Brigham City: KJQN 100.7 NW, modern rock Ogden: KKAT 101.9 PG 25 kW, 3740í, XG: 40-39-34 / 112-12-05 Pleasant Grove: KPGR 88.1 PG 1250w, -2835 ft,

VIRGINIA:

Broadway: WBHB 96.1 FC to oldies iOldies 96.1î CC (ex WLTK),

- Cedar Bluff: WHQX 107.7 class C3, PC> 9.1 kW, 541 ft, XC: 37-8-0 / 81-35-43
- Goochland: WZEZ 100.5 played Christmas music New Market: WLTK 103.3 FC to cont. Christian
 - iLight 103î (Harrisonburg) CC (ex WBHB) ìLight 103î
- Richmond: WTVR 98.1 played Christmas mx
- Roanoke: WSLQ 99.1 dec. 1982í
- WWSO 92.9 FC to oldies Suffolk:
- Virginia Beach: WWHV 102.1 NW, urban ìHot 102.1î

West Point: WWBR 107.9 played Christmas mx

Richmond's Continuous Lite Favorites

White Stone: WNDJ 104.9 played Christmas mx

WASHINGTON:

- Mabton: KLES 98.7 PG 4 kW, 823í XG: 46-31-20 / 120-19-59 96.9 PG 14 kW, class C2, 935í, Naches: KZTA
- XG: 46-35-59 / 120-52-08
- Newport: KMJY 104.9 QG to 104.5, C2, PG 930w, 2867í, XG: 48-19-54 / 116-41-35
- Spokane: KEEH 104.7 QG to 104.9, class C1, PG> 10.5 kW, 1549í
- Spokane: KYWL 103.9 PG> 39 kW, C1
- Sunnyside: KZTB 96.7 PG 1.4 kW, 692í, CL to Benton City, WA, XG: 46-15-33 / 119-21-55

WEST VIRGINIA:

Sutton: WDBS 97.1 PC 22 kW, 751 ft, class B, XC: 38-28-58 / 80-30-59

WISCONSIN:

Sheboygan Falls: WHBZ 106.5 FC to rock iThe Buzzî (Sheboygan), CC (ex WJJR) Wausau: WLBL 91.9 XC: 44-55-14 / 89-41-28

WYOMING:

Laramie: KHAT 96.7 CC (ex KKRR)

PUERTO RICO:

Quebradillas: WIDI 98.3 QG to 99.5, PG> 50 kW, class B, 1525í, XG: 18-14-6 / 66-45-49

- Bruce Elving writes with some • clarifications from pervious FM NEWS columns. First, he notes several typos of cities Ο yours truly mis -spelled Spartanburg, SC as iSpartansburgi, and a mis-spelling of Ithaca, NY in another Bruce also clears up some column. confusion in the North Country of New York State, noting that the WYSI Canton will move from 96.7 to 102.9 to allow WNCQ-FM 96.7 in nearby Morristown, NY to sign on the air. Thanks, Bruce!
 - Dennis Park Smith checks in again from Santa Barbara. The oddball low power FM station heis been hearing on 87.7 continues to broadcast, though it was on He mentions being 87.9 on 12-13-01. interested in receiving various mysterious FM stations, dating back to the 1960is in the Bakersfield area. This indeed sounds interesting, Dennis, and probably would make an excellent Mailbox contribution!! Also, Santa Barbaraís KDB 93.7 (which I often can hear myself when lim in the San Diego area) is for sale. UCSB (University of California ñ Santa Barbara) is attempting to raise funds to purchase the station, to retain its classical format. Dennis follows up with another letter on January 9th, regarding the San Diego area changes reported above (on 94.1 & 95.7). He noted calls of KGTB and KOCL, respectively, but the FCC reports the calls as KMYI and KJQY. Weill see if those change again. Slogans are iMy 94.1î and ìKool 95.7î

U.S. CHANNEL TWO SEEN IN THE U.K. & NORTHERN IRELAND

F2 skip reached ch A2 on January 17, 2001 as UK Dxer Tim Bucknall and N. Ireland Dxer Paul Logan observed a huge pileup of signals on ch A2 in the early afternoon (about 2:10pm local time). Paul was unable to ID any of his ch2 catches, but Tim was able to ID General Hospital, which was being aired by CKCW-2 at that time. Unfortunately, no ch2 F2 was received in the United States during that period. As we mentioned earlier in this issue, the cycle is NOT over just yet. Some spectacular F2 TV skip could still occur. Be ready. If ch2 is empty in your area, keep a TV set to ch2. You could see something really different and unique.

STATISTICS

Featuring FM/TV Scoreboards, All Time Distance Records,States Stats and Personal Best Statistics of FM/TV DXers.February 2002FM SCOREBOARD

Fred Nordquist 7945 Boxford Rd Clay, NY 13041 nordquis@twcny.rr.com

DXER	NAME	DXER LOCATION	<u>tot</u>	<u>88-91</u>	<u>ES</u>	<u>MS</u>	<u>AU</u>	<u>US</u>	DC	<u>CN</u>	<u>MX</u>	<u>F0</u>	<u>TPU</u>	<u>YB</u>	<u>AS OF:</u>	<u>UPD</u>
PAT	DYER	TX SAN ANTONIO	3037	471	2485	78	0	44	1	4	22	6	77	70	06/30/97	98
FRANK	MERRILL	IL MACOMB	2636	450	1181	10	8	48	1	8	8	3	68	85	02/20/96	96
KEITH	PUGH	AL NEW HOPE	2380	382	1324	108	18	47	1	7	14	6	75	83	12/28/95	96
RICHARD	SHAFTAN	NJ SPARTA	2225	415	1236	45	1	38	1	7	0	3	49	78	09/17/01	2001
JOSEPH	FELA	NJ S. PLAINFIELD	2179	455	1250	2	10	38	1	6	0	3	48	68	07/18/01	2001
JOHN	EBELING	MN BLOOMINGTON	2122	375	1167	63	89	48	1	7	5	0	61	52	01/01/02	2002
GREG	CONIGLIO	NY WILLIAMSVILLE	2107	341	1112	18	32	41	1	8	2	5	57	85	02/08/98	98
MIKE	BUGAJ	CT ENFIELD	2063	264	1167	25	26	37	1	6	1	3	48	74	05/14/00	2000
DANNY	BUNTIN	OK STILLWATER	2051	346	1218	4	0	48	1	5	9	2	65	74	04/08/96	96
JOHN	EBELING	MN PROSIT	2000	426	1311	4	7	48	1	9	3	0	61	75	01/01/02	2002
BRUCE	ELVING	MN ESKO-DULUTH	1907	377	1435	9	8	47	1	4	3	0	55	48	07/29/00	2000
FRED	NORDQUIST	NY CLAY	1842	407	930	56	61	42	1	5	0	3	51	69	01/12/02	2002
SAUL	CHERNOS	ON BURNT RIVER	1682	333	980	47	77	40	1	8	0	1	50	77	03/19/01	2001
JOHN	ZONDLO	OK YUKON	1657	315	918	3	0	42	1	5	11	0	58	79	01/01/99	99
MIKE	HAWK	NE OMAHA	1588	312	866	30	0	47	1	6	4	0	58	91	07/30/95	95
DAVID	NIEMAN	NY AKRON	1512	409	467	53	27	43	1	8	0	3	55	59	11/07/93	93
BOB	SEYBOLD	NY DUNKIRK	1508	324	667	0	2	45	0	8	3	3	59	58	08/15/97	97
BOB	SMOLAREK	NJ OLDWICK	1408	209	705	2	4	37	1	4	0	3	44	78	06/21/99	99
FRED	MCCORMACK	ND FARGO	1339	305	990	3	52	48	1	6	3	0	58	74	08/03/90	90
MATT	SITTEL	FL TALLAHASSEE	1156	164	583	2	0	38	1	2	7	4	52	92	05/13/00	2000
GIL	MORGAN	MO LEBANON	1109	199	255	26	0	40	1	5	5	0	51	94	10/06/95	95
DANIEL	OETTING	PA PHOENIXVILLE	1048	258	381	13	2	36	1	7	0	1	45	77	06/12/98	98
DOUG	SMITH	TN PLEASANT VIEW	1007	192	365	1	0	41	0	4	11	2	58	94	09/06/00	2000
JOHN	TUDENHAM	MO JOPLIN	1004	187	349	2	0	45	1	3	2	0	51	91	06/30/01	2001
DAVID	NIEMAN	NY ROCK CITY	995	227	169	15	1	37	1	5	0	0	43	91	06/16/98	98
SAUL	CHERNOS	ON TORONTO	947	179	192	1	0	37	1	3	0	0	41	77	03/13/01	2001
GARY	SIEGEL	OH TOLEDO	833	178	181	0	0	33	1	6	2	1	43	76	02/01/99	99
	STEINBERGER	MA HUDSON	828	187	358	13	6	35	1	5	0	0	42	58	03/31/00	2000
ALAN	MICHALEK	MA SPRINGFIELD	812	106	495	0	0	36	1	5	0	0	42	52	10/01/90	90
D.BRUCE	HALL	ON BRANTFORD	800	132	153	106	2	40	1	6	1	3	51	90	07/20/94	94
MATT	SITTEL	TN KINGSPORT	775	98	424	3	0	36	1	6	2	4	46	84	05/13/00	2000
ROBERT	ROSS	ON LONDON	760	214	308	0	0	34	0	7	0	2	43	76	07/27/92	92
GEORGE	GREENE	OH AKRON	706	54	234	0	0	33	1	3	0	0	37	70	03/09/91	91
ERIC	BUENEMAN	MO HAZELWOOD	601	96	167	2	0	33 42	1	3	4	0	50	92	08/26/00	2000
MATT	SITTEL	NE BELLEVIEW	523	75	170	1	0	37	1	4	5	0	47	99	07/04/01	2000
MATT	SITTEL	NC RALEIGH	456	66	160	0	1	22	1	4 1	3	0	27	88	05/13/00	2001
JIM	AYERS	TN MURFREESBORO	448	73	18	1	0	27	0	1	1	0	29	81	02/12/94	2000 94
GUS	MANCUSO	MD HYATTS	440 401	74	82	0	0	27	1	0	0	0	29	72	02/12/94	2000
PETER	GEORGE	MA STOUGHTON	394	94	oz 149	20	2	36	1	5	0	0	20 42	67	07/05/95	2000 95
RUSS	EDMUNDS	PA BLUE BELL	394 381	94 120	41	20	2	30 29	1	Э	U	U	42 30	88	07/03/95	95 2001
JOHN	JEFFERSON	WA AUBURN	355	79	41 175	0	0	29 14	0	1	1	0	30 16	64	07/15/00	2001
						-	-		-	-		-				
WILLIAM PAUL	HEPBURN	ON BRAMPTON	309	183	83	1	6	21	0	2	0	1	24	85	11/10/91	91 95
	MOUNT	NJ MONMOUTH	307	48	21	0	0	20	1	0	0	0	21	90	08/24/92	
MATT	SITTEL	NC ASHVILLE	302	37	68 F1	0	0	22	0	2	2	2	28	94	01/22/96	96
JIM	RENFREW,	NY ROCHESTER	282	70 25	51	0	0	20	1	2	0	0	23	76	07/10/92	92
JIM	THOMAS	CO FORT COLLINS	261	35	129	8	0	24	0	3	1	0	28	89	02/10/96	96 2001
RUSS	EDMUNDS	ME JONESPORT	219	34	10	•	•	13	•	5	•	•	18	93	08/03/01	2001
KEN	ONYSCHUK	IL STEGER	168	36	0	0	0	7	0	0	0	0	7	68	08/20/94	94
SHEL	REMINGTON	HI KEAAU	135	19	0	1	0	2	0	0	1	0	3	89	05/02/94	94

COLUMN DEFINITIONS: are as follows: Total = Total number of FM stations logged from DXer's location (All loggings should be received within 25 mile radius of this location to count.)Freq. changes count as a station, call letter changes DO NOT count. Also count a station only once regardless if logged by different propagation modes. 88-92 = All stations logged from 88.0 to 91.99 Mhz. Es = Total number of stations logged via E-skip. MS = Total by meteors catter. Au = Total via Aurora. USA = Total number of states and the "+" = Washington, DC. CN = Number of Canadian provinces logged. MX = Number of Mexican states logged. FO = Number of foreign countries, but not Canada or Mexico. TPU (Total number of political units) = Sum of USA CN MX and FO. YB = The year you began DXing from this location. Note: Now is the time to update and submit your latest stats to keep on the Scoreboard. Also submit any distance records, states stats and personal best statistics. As you can see...the cutoff date was 1990- many need to update! 73 FRED

Special Report: 2001 TV Es Summary

Top openings:

Date:	<u>Total:</u>	<u>Reporters:</u>	Average:	<u>MUF:</u>	<u>High:</u>
31 May	121	11	11.00	116.8	34
27 June	112	13	8.62	6	21
21 June	108	11	9.82	6	38
1 June	94	11	8.55	106.3	33
28 June	87	10	8.70	6	17
25 June	82	12	6.83	6	11
25 May	62	9	6.89	106.3	21
13 July	61	8	7.63	5	14
9 July	52	12	4.33	6	15
14 July	52	6	8.67	6	18

Total:Total number of IDd Es loggings made from 1 December 2000 through 1 December 2001 and
reported to Eastern or Western TV DX.

Reporters: Number of DXers reporting at least one Es signal (including unIDs) on this day.

Average: Average number of loggings per reporter.

MUF: Highest channel or frequency on which Es signals (not necessarily TV, and including unIDs) were reported on this day.

High: Maximum number of IDd TV Es loggings by any one reporter on this day.

Monthly breakdown:

Month:	Es Loggings:	Es Days:	Loggings per day:
January	21	8	2.63
February	14	8	1.75
March	5	3	1.67
April	3	2	1.50
May	439	24	18.29
June	1011	29	34.86
July	490	29	16.90
August	166	18	9.22
September	none		
October	2	1	2.0
November	none		
December (2000)	13	5	2.60

Annual breakdown:

<u>Year:</u>	<u>Es Loggings:</u>	Es Days:	Loggings per day:
2001	2164	127	17.04
2000	2072	122	16.98
1999	1605	96	16.72
1998	1958	139	14.09
1997	1396	136	10.26

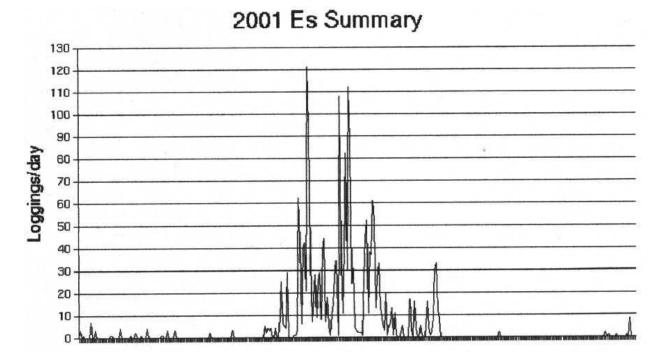
1996	2954	178	16.60
1995	3391	160	21.19
1994	2253	118	19.09
1993	1585	102	15.54

Pests:

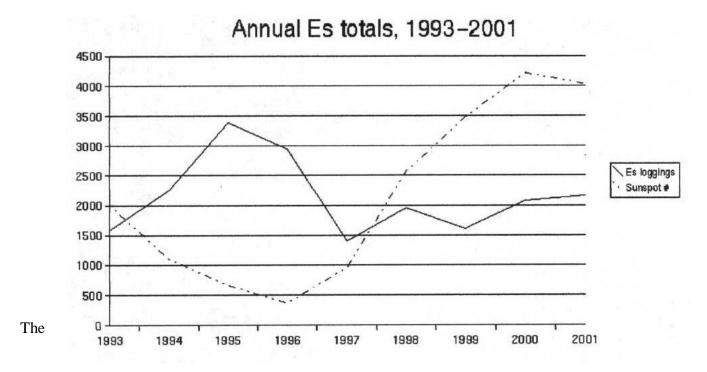
Station(s):	<u>Number of loggings:</u>
WPBT-2 FL	87
WESH-2 FL	84
XEFB-2 NL	70
WEDU-3 FL	67
KPRC-2 TX	63
KBEJ-2 TX	62
WBRZ-2 LA	47
KNAZ-2 AZ	38
WDIQ-2 AL & KIII-3 TX	37
KMID-2 TX & XEPM-2 CI	36

Pests by channel:

<u>Channel:</u>	<u>Station:</u>	<u>Loggings:</u>
2	WPBT-FL	87
3	WEDU-FL	67
4	WWL-LA	29
5	KRGV-TX	20
6	WDSU-LA & WTVJ-FL	7



The 2001 Es Summary chart shows the total number of loggings made each day, by all DXers.



Annual Es totals chart shows the total number of loggings made each year, by all DXers, for each year from 1993 through 2001. It also shows how the average sunspot number varied from year to year. (but the absolute numbers are not shown)

(Here's hoping this chart turns out!)

Personally, I don't see where this chart either supports or denigrates the theory that sunspots and Es are correlated. Make up your own mind... Consider that other things may affect the number of Es loggings, notably the growth of the Internet which has made it much easier for DXers to know when those elsewhere are seeing skip.

Overall, this year turned out slightly better than last, in pretty much every category. Strangely enough, the two days on which skip was reported in channel 7 didn't make the Top 10. (8 July, which was the 13^{th} most productive day, and 17 August, which was in 43^{rd} place for number of skip loggings) Comparing this year's graph to last years, you see the skip was concentrated earlier in the season as well.

Maybe the biggest news in 2001 arrived at the very end of the year - and had little to do with Es. Phenominal F2 conditions had been appearing on the 50MHz ham band since mid-November. On 30 December, a huge F2 opening occurred with MUF at least 57MHz. At least one DXer had positively identified reception of Venezuela. Others believe they had Trinidad. Trans-Atlantic reception also happened, with a Scandanavian DXer receiving <u>something</u> - he suspects South America - on American channel 2.

Occasional reports of "DTV snow" via Es continued in 2001, but no DXer has yet decoded a digital station via skip. The fact that there was only one operating low-band DTV station (WKYC-DT channel 2 in Cleveland) until the last week of the year didn't help. WBBM-DT is now operating at 50% power on channel 3 in Chicago; it opens a possibility for digital DXers too close to Cleveland or with locals on channel 2.

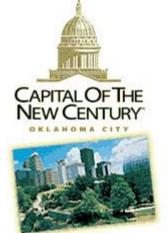
The F2 is unlikely to repeat in 2001. Hopefully, the Es will more than repeat. Good luck!

Doug Smith, W9WI 1385 Old Clarksville Pike Pleasant View, TN 37146-8098 http://www.w9wi.com



w9wj@w9wj.com/CDT www.w9wi.com

PSA for Red Cross Dallas-Fort Worth Chapter 630 103.9 AR Pocahontas, local ads 215 Columbia/Jefferson City wx 340 0751 KRMS MO Osage Beach, call IDs 326 93.5 0758 KWFC 89.1 MO Springfield, iGreg Brock, KWFC newsî 347 0802 KTXY 106.9 MO Jefferson City, local ads ìY-107î 333 12/12 Tr Technics ST-G50 tuner, big Radio Shack VHF-TV 0115 WLZA 96.1 MS Europa, call ID 226 93.9 ?? ??, ìK-Jam 93-9î 0127 unID 0130 WGNG 106.3 MS Tchula, Belzoni ad 274 101.3 MS Meridian, ìQ-101î 296 0203 WJDQ



antenna at 15í

Oklahoma City 2002I July 26-28

WTFDA's 2002 Convention is coming to the heartland! Make your plans now to attend!



Our host motel is the Hampton Inn, located at I-40 and Garth Brooks Boulevard in Yukon, Oklahoma. The room rate is \$55/night (1 king or 2 queen size beds, 1-2 persons). They offer a free breakfast in the morning and chocolate chip cookies and milk at night. The registration fee is TBA.



Lots of great activities and tours are on tap! Check the VUD monthly for updates, or go to Fmdxweb.com and click on WTFDA 2002.

WESTERN TV DX

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

Dennis Park Smith, 3605 San Remo Drive, Santa Barbara, CA 93105-2523 (805)687-7803

This report is for December 2001. Tropo conditions along the southern-California coast between Santa Barbara and San Diego/Tijuana as monitored on TV-FM (up to 250mi/320km) were generally nonexistent because of unsettled relatively cold conditions (aprox 60F days, 40F nights), but did manage a bit of slight stability between storms.

Dec 1-12:	None	(continued from Nov 22-30)
		(Dec 2-3 rain)
Dec 13:	Poor	(slight warming)
Dec 14-16:	None	(Dec 14 rain)
Dec 17-19:	Gener	ally poor
Dec 20-24:	None	(Dec 20 rain)
Dec 25-28:	Very p	oor
Dec 29-31:	None	(Dec 29 rain)

Best of DX to all. Dennis

Matthew C. Sittel, 15013 Eureux Circle, Bellevue, NE 68123 mcsittel@home.com http://members.home.net/mcsittel/beltvdx.htm

Equipment: Winegard PR-9032 UHF antenna at 35', Winegard AP-4700 UHF pre-amp., Winegard PR-5030 VHF antenna at 32', MFC traps for channels 3, 6, 7 and 26.

<u>10/23</u> tr

10/20				
1955	10/47	MN	Rochester	248
1955	19/25/31	WI	La Crosse	299
1956	WHWC-28	WI	Menomonie	342
2100	20/55	WI	Wausau	411
<u>11/9</u> tı	r			
2125	KDNL-30	MO	St. Louis	344
2126	30/40/59	IN	Indianapolis	518
2129	WRSP-55	IL	Springfield	352
2131	WYZZ-43	IL	Bloomington	354
2131	WWTO-35	IL	La Salle	364
2133	WQPT-24	IL	Moline	289
2133	25/31/47	IL	Peoria	334
2133	WBUI-23	IL	Decatur	379
2134	WFIE-14	IN	Evansville	500
2138	WKEF-22	OH	Dayton, NBC	621
2142	<u>WEVV-44</u>	IN	Evansville, ID	<u>499</u>
2148	WPXK-54	ΤN	Jellico, Pax	716



2150 2157 2203 2210 2210 2213	WSTR-64 WKON-52 WAND-17 WHOI-19 KLJB-18 WTTK-29	oh Ky Il Il Ia IN	Cincinnati Owenton,voice ID Decatur , nx Peoria, HOI nx Davenport, Fox18 Kokomo, WB	616 <u>616</u> 380 333 289 525
2259	WBAK-38	IN	Terre Haute	468
2301	<u>WKMR-38</u>	ΚY	Morehead	<u>696</u>
	calls	s mer	ntioned during sign-	off
<u>11/10</u>	tr			
0954	KWCV-33	KS	Wichita, WB33	244
0955	KOOD-9	KS	Hays	217
<u>11/18</u>	Es (MS indu		•	
1225	<u>CICI-5</u>	ON	Sudbury,local ad	<u>831</u>
2122	KGBT-4	ТΧ	Harlingen, calls	1039
	KRGV-5	ТΧ	Weslaco, loc.nx	1038
2140	KENS-5	ТΧ	San Antonio	828
2144	KBEJ-2	ТΧ	Fredericksburg	773
<u>11/22</u>	tr			
0826	10/47	ΜN	Rochester	248
<u>12/6</u> t				
0615	,	WI	La Crosse	299
0615	KXLT-47	ΜN	Rochester	272
<u>12/13</u>				
1921	<u>K46??-46</u>		Falls City	<u>62</u>
		r, mo	ved from ch. 24	
<u>12/26</u>				
	unIDs-2		4 "Azteca Trece"	
1958	unID-4	CB	S, probably KGBT	
<u>12/30</u>				
0954	unID-2 gho	sty v	ideo, no audio	

A very quiet fall tropo season, save for November 9. A little off-season skip noted as well, and the surprise F2 reception on December 30 was a treat to see for the first time ever, even if I didn't ID the station. Log total stands at 571. 73s Matt.

Jeff Kadet, K1MOD/9, Box 20, Macomb, IL 61455 (Internet Posting) Had intense F2 on channel 2 December 30 and 31. The station that was dominant was seen from NJ to IL. We think it was Trinidad and Tobago. Video freq. was 55.2497.

Mike Cherry, VE7SKA, 362 Sky Valley Rd, Salt Spring Island, B.C. CANADA mcherry@saltspring.com <u>12/31</u> Es2 (Times GMT) 1924 KHON 2 TV 240° HI BL11 <u>01/01/2002</u> F2 1859 un-ID ch 3 TV 240° (peaking Hawaii)

1900	KHON	I 2 TV 250° HI BL11	
73 & H	-lappy	New Year - Mike VE7SKA	
	á ruszka e, LA 7	a , 5024 S. Braxton Ave., Bato 0817	on
		001 CT unid meteor bursts ch. 3 (KATC off)	
		unid SS 4, 5 XHAB 7 TA	505
	<u>mber 20</u> 2033	<u>001</u> Little Rock 7, 16	305
⊿ tr		KVTH 26 AR KEDT 16 TX	295 425
	1713	KLRT 16 AR Fox 16	305
		WCIQ 7 AL // 41 APT WBIQ 10 AL // 41	375 330
	2057	WBIH 29 AL calls I. right	
		WJSP 28 GA WTJP 60 AL	390 390
		WRJM 67 AL	320
		WCLP 18GA GPTV WJSU 40AL ABC	475 385
		WHNT 19AL ID, news (loc	
off)	0017		<u>400</u>
	2217	WZTV 17TN 615 area coo zero beat	
	2231	WLDM 23AL ID lower left	
		unid 58 ABC - WBMA or WI WTLH49 GA ID	PGA? 390
		WXTX54 GA ID	360
		WHDF15 AL pgm match	
14 tr		WFIQ 36 AL // 42 WJSP 28 GA	360 390
	2215	WBIH 29 AL	280
		WHOT34 GA	515
		WHSG63 GA TBN WTBS17 GA Superstation	490 455
		WPXA14 GA Pax, 11 alive	
news 43	5		
-10	2248	WATL36 GA pgm match	455
		WCLP18 GA	475
	2340	WUPA69 GA Change of H 455	ean
		WGCL46 GA floating over 455	
15 tr		WXIA 11 GA Conan, local 455	
	0024 0106	WPGA58 GA WGNM 64 GA knife shoppin	•
	0133	show WSWS 66 AL	<u>470</u> 370
	0205	WXTX 54GA	360
		WATCt 57 GA very weak	000
		WRJM 67AL ID WBIF 51 FL ID lower left	320 355
		WJSU40 AL "33/40"	385
		WTJP 60 AL still in!	390
		KTEJ 19 AR pgm match KATV 7 AR	370 305
		WZTV17 TN Bil Heard	

				465
		WCLP18 GA	0	175
	1910	WHDF15 AL	II game strong!	475 360
	1910		strong:	500 515
	1915	WATL36 GA		455
	1918		ABC	<u>265</u>
	1933		CBS	400
	1952	WCTE22 TN	bug lower rig	
	1002		bug lower ng	510
	1959	WNAB 58TN	ID	465
	2003	WUXP 30TN	Rambo	465
	2020	WUPA 69GA	hockey	455
	2030	WNPT 8TN	"Npt" ÍD	465
	2041	WHTN 39 TN	religious,	
		Nashville men	ťd.	460
18 tr	1921	WCIQ 7 AL		375
	2102	WJSP 28 GA		390
	2105	WATL36 GA	Seinfeld	455
		WHOT34 GA	"Atlanta" low	ver
		right		515
	2149	WFTX36 FL	"Fox 4"	620
	2208	WVEA 62FL	SS	575
	2211	WFTT 50FL	HSN	550
	2215	WGCU30 FL	Charlie Rose	
	2220	WFTS28 FL	local wx	550
	2223	WUSF16 FL	PBS	550
	2239	WXPX66 FL	Pax, weak	560
	2244	WINKt11 FL	CBS	
		WFLAt 8FL	NBC zero be N.O.	eat to
	2321	WTBS17 GA		455
	2323	WHSG63 GA	TBN	490
	2327	WPBA30 GA	Charlie Rose	e 455
26 Es	1853	unid 3-6 SS		

I think that's the first time I've logged reception by 3 different modes in one day! The tropo openings to the East finally saved this year from being a total bust for tropo.

October 2001

			-	
3	Es	1903	KDBC 4 TX	910
			XEPM 2 CH zero beat to V	VBRZ
				910
14	tr	2141	WJSP 28 GA in color	390
		2317	WBIF 51 FL "FL Face to Fa	ace"
				<u>355</u>
		2356	WFSG56 FL PBS	325
		2359	WAWD58FL Beach TV	260
15	tr	0656	KENS 5 TX bug	445
		0700	KWEX41 TX	445
			KXAN 36 TX	395
		0701	KVDA 60 TX	445
Th	e la	ick of l	oggings shows how pathetic	the
tro	po	seasor	n has been here. What is goi	ing
onʻ	? !:	s this a	sign of global warming??	

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

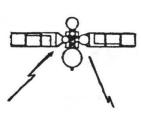
December 2	<u>001</u> CS	ЭТ	
11 tr 0650	WLMT	30 TN	451
0700	WJKT	16 TN	419
0900	WPXK	54 TN	451
27 Es 0400	WUND	2 NC	797
	WSKY	4 NC Manteo	<u>828</u>
0425	KDKA	<u>2</u> PA Pittsburg	<u>491</u>
0430	KYW	3 PA	741
0450	WMAR	2 MD	677
0500	WCBD	2 SC	797
0620	KMID	2 TX	967
0630	XHHUPI	N 2 TAM	1201
0640	KPRC	2 TX	893
0740	WDIQ	2 AL	727
tr 2110	WBQD-I	<u>LP 26</u> ?	
28 Es 1800	KBEJ	2 TX	992
	KBCI	2 ID	1328
1820	KIDK	3 ID	1123
1855	KUTV	2 UT	1139

December 27 saw one of the most unusual Es openings ever. Es began before 0400 and was out by 0800. Rock Island-4 was off and my seeing a big 4 and WSKY-4 were a big surprise. KDKA-2 was seen with news for 20 minutes and was the shortest skip I have seen since Memphis in the mid 50s.

WBQD-LP-26 has C/B with ID 24 hours a day snowfree. They are 250° WSW of Dixon and list no QTH. Anyone know the city of license?

December 28 saw Boise-2 the strongest ever. Also, an educational 4 took out my local 4.





George W. Jensen 4604 Anntana Ave. Baltimore, MD 21206-4220 SCISATMAN@AOL.COM

FEBRUARY 2002

HAPPY VALENTINES DAY. This month a continuation of the satellite reviews starting with SATMEX 5 - which has C and KuBand and was placed in service in 1998.Listed below are its services 4-digital/13-digital/16 - MPEG2 4020H-26666 and has the following - some of which are occasionally scrambled ñ Color bars/TVC/Gran Canal Latino/ESPN2/Movie World/Tu Canal/Fox Sports World Espanol/Claravision/17 - MPEG2 - 4051V/3183 - TeleRitmo/ 18 - Digital/ 24 - Digital/ 78- Edusat/781 - Edusat/ 782 - Edusat/ 783 - Edusat/ 784 - Edusat/ 785 - Edusat/ 786 - Edusat/ 787 - Edusat/ 788 - Edusat - The History Channel/ 789 - Edusat/ 790 ñ Edusat /791 - Edusat/ 792 - edusat/ 805 - XEIMT - Imevision Ch 22 - Mexico City/ 806 - Canal de Congresso/ 807 - Tele Once - Ch 11 XEIPN - Mexico City/ 808 - Government/ 810 - Government/ 811 - Government/ 812 ñ Government. On the KuBand side - 19 - MPEG2 - 20090H/13868 - The Following - CTN - Chinese/Tzu Chi TV/ CCTV4 - some of these are occasionally scrambled.

Next Anik F1 - 107.3 West - 38 C Band and 48 KuBand Transponders - 2001 20 and 50 watt powers - The following are on C Band Many transponders are used for occasional feeds - /2 -MPEG2 - the following RDS, The Green Channel and others scrambled/ 9 - Metro Media, Blue Bonnet, RDI, TeleQuebec, CITE Radio and others - mostly scrambled/ 10 - Mostly CTV Feeds - Blue, Green and Red network, Newsworld International, The Weather Network. I will do the KuBand side of this monster in a later issue - There is some flux in its offerings at this time. New of note is the Newborn Channel on SBS 6 4DTV.

Would the person who sent an email to me with a 73 in the address please resend it as I pressed a delete button and lost it. Thanks.

Stope

Eastern TV-DX ^{Ma} Be mc

Matthew C. Sittel 15013 Eureux Circle Bellevue, NE 68123 mcsittel@home.com

February 2002

March, 2002 column deadline: Feb. 12

Eastern TV-DX is for reporters from the following states: AL, CT, DE, FL, GA, IN, KY, MA, MD, ME, MI, NC, NH, NJ, NY, OH, PA, RI, SC, TN, VA, VT and WV, plus Washington, DC. Also for reporters from the following Canadian provinces: NB, NF, NS, ON, PEI and PQ. Foreign reports are also welcome!

Doug Smith, Pleasant View, TN

w9wi@w9wi.com http://www.w9wi.com

0653 KSPR-33 MO Springfield 12/3 tr 328 0730 WRGT-45 OH Dayton 276 0716 KRCG-13 MO Jefferson City 316 WCET-48 OH Cincinnati 234 "13 KRCG" bug WSTR-64 OH Cincinnati 238 KYTV-3 MO Springfield, KY3 327 0729 KOLR-10 MO Springfield 12/4 tr 328 0630 WALA-10 AL Mobile, Fox 10 nx 396 "KOLR 10 Weather Lab" 2331 KARD-14 LA West Monroe 415 0802 WRSP-55 IL Springfield 267 WLOV-27 MS West Point, bug 212 12/6 tr WKDH-45 MS Houston, ID bug 212 1100 3/9/12/45/61 TN Chattanooga 130 KFWD-52 TX Fort Worth, "T52"630 WELF-23GA Dalton (rare) KPXD-68tTX Arlington, Pax 138 1142 WYMT-57KY Hazard 12/5 tr 223 0006 WMPN-29 MS Jackson, //WMAV 48/64 OH Cincinnati 230 344 KSPR-33 MO Springfield 328 WMAV-18 MS Oxford,//WMPN-29 207 12/11 tr 0019 KTXH-20 TX Houston, UPN 20 677 0700 WXIN-59 IN Indianapolis 245 KRIV-26 TX Houston, Fox 26 676 unID-47 w/"Recess" KETK-56 TX Jacksonville 556 12/12 tr Athens, TX ad, through local DTV 0050 unID-22 CBS WHLT? 0036 WGNO-26 LA New Orleans 0100 KAQY-11 LA Columbia, call ID 415 472 0043 WSTR-64 OH Cincinnati 238 KARD-14 LA West Monroe 415 0100 KASN-38 AR Pine Bluff, UPN38 318 WMPN-29 MS Jackson, //18,23 344 WICS-20 IL Springfield 267 12/15<u>tr</u> WHSL-46 IL East St. Louis 231 2047 WCOV-20 AL Montgomery 284

Various European carriers were heard via F2 on many dates in mid and late December. Even had about a dozen two-way QSOs with European hams on 50 MHz, despite a joke of an antenna and only 10 watts of power. Es noted on two days shortly before Christmas-probably Colorado as West Coast hams were heard (double-hop, presumably) on 50 MHz both days.

William McGuire, 2412 59th Place, Cheverly, MD 20785-2918

Equipment: Admiral 13" color TV.

11/22 tr	
2310 WCPB-28 MD Salisbury, PBS	2330 WBOC-16 MD Salisbury, ID
2315 WCAU-10 PA Philadelphia, logo	2352 WHYY-12 DE Wilmington,ID

Mike Bugaj – 69 Sherman Road – Enfield, CT 06082 Equipment Sanyo 13" color TV and Winegard Prostar 5030 used.

12/29 Alerted by Girard Westerberg on the WTFDA list around 9am that Es was being seen, checked ch2 to find it wasn't Es, but F2 skip! F2 lasted from tune in at 9:10am EST to about 11:10am when it died out. Signals were exceptionally strong. I managed to get some still pictures on my 35mm camera.

12/30 More F2 around 9:15am, strong signals at times, lasting until around 10:15. This time I was ready

and had the VCR running the entire time. I may have caught both RCTV Venezuela and Trinidad because I had more than one station but nothing I can see as a clear ID. I'm not counting anything seen. Ghosting and smearing were terrible but it was great fun. I will treasure that tape! Who knows if I'll ever see F2 again



PORTLAND (revisited)

(It wasn't your column editor's intent to make a two-part series out of the Portland material, but it became necessary when WTFDA's Pacific Northwest TV historian Frank Aden called my attention to several errors in last month's text. Thanks to Frank's input, including a few logos that appeared in Oregon editions of "TV Guide", I am pleased not only to make the corrections, but to share a few more rare Portland recollections.)



After viewing TV TIME TUNNEL in the "e-VUD", Frank Aden sent me the following e-mail. I repeat it verbatim to be sure that there is no room for error.

Boise, Idaho January 3, 2002

Wish I had known you were going to do the article on Portland TV. KOIN is the only station there to have had the same network since they came on the air.

KPTV was NBC when it came on and took NBC to channel 12 when it bought KLOR which was ABC. KGW which came on Dec. 15, 1956 must have been an independent but got ABC when KLOR went off the air. Sometime between 1958 and 1960, KPTV and KGW swapped nets. In 1962 when KATU came on the air they were an independent; but just a few months later took ABC from KPTV which then became an independent.

When KPTV bought KLOR and moved to channel 12, that was not the end for channel 27. KHTV was on channel 27 for a short period of time as an independent. I would assume they bought KPTV's channel 27 transmitter. Frank Aden

KPTV is represented here with a classic example of graphic design popular in the 1950s. KPTV was the first commercial UHF TV station in the United States.





It's rare to see VHF mentioned on promotional material. Because UHF arrived first in Portland, KLOR apparently felt the differentiation was necessary. Is that an ABC logo?



EDITOR'S NOTE: As of this month, TV Time Tunnel transitions to a semi-regular feature rather than the monthly presentation you've become accustomed to. Please be watching for the next edition in the spring.

wtfda://online A Dxing Journey through the internet

This month we blast off with a cyberspace look at space.

The Perseid meteor shower of Nov. 18 was truly remarkable. Southern Ontario DXer and astronomer Phil Gebhardt invited me to join him at a rural site north of Oshawa Ontario to watch the meteors and to listen for bursts on FM. Intense tropo quickly filled the band with stations, denying us an empty frequency. We couldn't even score an open VHF channel on my mini TV. So, if I could possibly be disappointed by good tropo, this was the occasion!

Nonetheless, we were treated to excellent viewing ñ before thick fog rolled in close to the peak of the shower. The shining trails were spectacular, and DXers across North America reported great viewing, many lengthy pings and some nice loggings.

This past fall was also remarkable for great auroral displays. Just north of Toronto, the Northern Lights shone an occasional deep, rich red and beautiful pale yellow. The fall auroral activity also coincided fairly closely with some e-skip openings. We can only ponder the possibility of a causal relationship between natural phenomena such as auroral activity and the Leonids, on one hand, and e-skip. Some DXers reported MS pings so close together that they seemed like Es!

Thus, it's entirely appropriate that we explore Space Weather.com for answers:

www.spaceweather.com

This site is chalk full of stuff, including stunning photos of auroral displays and meteor showers, news about current space weather conditions, and forecasts for sunspot activity and geomagnetic storms from sources such as the University of Alaskaís Geophysical Institute. Space Weather.com is a must for any serious MS, auroral or E-skip chaser.

Speaking of space, Bill Hepburn and Kaimbridge Goldchild both recommend the Solar Terrestrial Dispatch, which deals extensively with the issue of ionospheric radio propagation. You can find it at:

www.spacew.com

This site offers an array of forecasts, currently active warnings and alerts. There are discussion areas with participants and hosts such as Cary Oler, a scientist at the University of Alberta who is considered one of the top ionospheric propagation experts. This discussion area can sometimes be hard to find, so we recommend using basic Internet search engines and related techniques to find anything specific.

Mike Hawk tells us about an online review he wrote regarding mid_latitude sporadic Es, at:

http://www.amfmdx.net/propagation/Es.html

This site links to a gold mine of other DX-related information and contains a review of sporadic_E knowledge both from a DXerís perspective and bridging in observations from academia. The ideas conveyed in the article are theories, hypotheses, and observations, yet Mike reminds us that the catalyst for sporadic E is unknown and its behavior is unpredictable. iWhen you start to believe that correlations and observations are fact, sporadic E will surprise you with an inexplicable resultî he says.

In the last column, we promised to provide tips for solving unIDs. Well, Massachusetts DXer Steve Solomon reported an amazingly lengthy burst in French on 88.7. He heard the letters CFMA, surmised these might be Canadian call letters, and sent me an audio file that contained the following:

ì...CFMA chapitre de Lafayette, un organization sans-profite pour la promotion de la culture cajun...î

In translating the tape for Steve, I effectively solved the unID. What he heard was: i...CFMA chapter of Lafayette, a non-profit organization for the promotion of the Cajun culture...î

In other words, CFMA is the acronym for the Cajun French Music Association, and Lafayette (which he did not catch on the tape because the audio quality wasnít great) happens to be in the heart of Cajun country in Louisiana. Ironically, KRVS is a largely French-language station on 88.7 in Lafayette. Yet, before I even listened to the audio file, I strongly suspected Steveís unID was going to be KRVS. I had done a basic web search engine query on CFMA and came up with the association. I even found references to KRVS on the CFMA site.

Out of curiosity, I subjected CFMA to a web site called Acronym Finder:

www.acronymfinder.com

Type in any acronym and you'll get back the full names of various entities that use that acronym. Well, I got the California Furniture Manufacturers Association, the Canadian Fragrance Materials Association, the Central Financial Management Activities, the Central Florida Musicians Association, and the Construction Financial Management Association. However, Acronym finder did not identify the Cajun French Music Association.

Go figure! The lesson here? Donít assume that any particular online search tool knows everything. Keep hunting and think outside the box.

We conclude with one final DX phenomenon, which took place on New Yearí Eve ñ F2 reception from north-eastern North America to what is widely believed to be the Carribean and South America. DXers are fairly certain they saw Venezuela and Trinidad, but thereis nothing like a list of stations in that rather large target area to fuel a DXerís desire for something exotic. Neil Kazaross, Jerry Bond and Tom Bryant supplied just that: Two lists that can be downloaded and printed:

For a list of South American VHF TV stations:

www.ukwtv.de/de/publikationen/tvlist/SAm3.pdf

For a list of Central American VHF TV stations:

www.ukwtv.de/de/publikationen/tvlist/CAm3.pdf

These sites proved to be a godsend for DXers lucky enough to sort out the wacky mess on channel 2.

Well, thatis it for this issue. Weill be back in a future edition of the VUD with more tricks from the web. Remember, this is YOUR column. Contributions needed.

73s, Saul

OUR WEBSITE IS <u>http://www.anarc.org/wtfda</u>

Your mission: Memorize this address!

<u>Mid-Latitude Sporadic-E – A Review-Part II</u>

Michael Hawk - November 12, 2001

Remember that simple geometry will not take into account the gradual *ibendingî* of a wave (the property similar to refraction discussed previously). For the ease of calculations, you can assume *ireflectionî* occurs instead by taking into account the *ivirtual heightî* of the refraction. Many formulas revolve around the virtual height, which is an altitude higher than where the actual refraction is taking place. See figure 3.

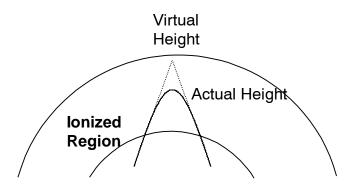


Figure 1 Refraction of a radio wave with Virtual Height

It has been observed frequently that if one patch of ionization forms, others of varying strength likely exist or will form shortly. If this is the case, and two patches exist within the horizon of a midpoint, the theoretical distance propagated by Es can nearly be doubled, so long as the clouds are in line with both the transmitter and receiver. This idouble hopî propagation is fairly common during widespread occurrences of Es, especially below 70 MHz. Similarly, three or more clouds could potentially line up, providing even further distances propagated. Of course, the likelihood that each of the cloud are adequate strength and geometrically lined up is pretty slim, especially if you're interest is in higher frequencies.

One other factor as to the maximum distance propagated by Es is the height of the Es cloud. According to ionosonde (devices used to measure reflectivity of the ionosphere) data, Es usually occurs around 90-100 km altitude. This data also reveals that multiple layers of iclouds have formed on occasion, usually spaced by about 6 km. Varying heights might allow for longer or shorter distances propagated, but remember that we are constrained to an altitude close to 100 km, so the variances will be small. On a side note, as mentioned earlier, the E region exists between 90 and 160 km. Since Es consistently occurs around 100 km, many scientists refer to a distinct iEs Layer.

As electron density of the cloud increases, its critical angle also increases. In other words, at a given frequency, a cloud may have a critical angle of 40°. In an hour, the electron density may have increased enough to raise the critical angle to 45°. This would result in a shorter minimum path length. Refer to figure 4.

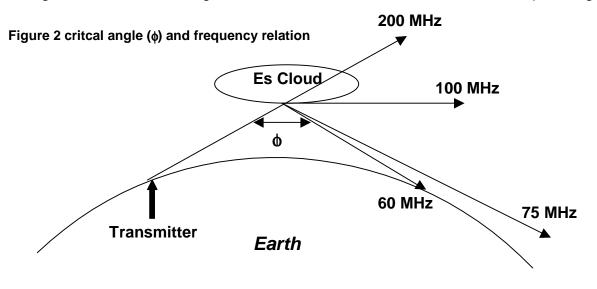


Figure 4 is meant to demonstrate that a region of ionization will irefracti signals of varying frequencies differently. A higher frequency may be unaffected, while lower frequencies are more and more impacted. In the example, the 60 MHz frequency is the highest frequency (MUF) that is getting refracted back to the Earth. The critical angle for a 60 MHz signal is represented by ϕ . A lower frequency, say, 30 MHz, would be refracted at an even smaller angle, resulting in a smaller critical angle than the 60 MHz signal.

At even lower frequencies, the critical angle might be 90° , meaning a signal sent straight up is reflected back down. The highest frequency at which a vertically incident wave is reflected back to the transmission point is known as the critical frequency (f_{\circ}). Formally defined, critical frequency is the frequency capable of penetration just to the layer of maximum ionization with a vertically incident wave. Radio waves of lower frequencies are refracted back to the ground, and those at higher frequencies pass through.

Since both critical frequency and critical angle are functions of ionization density, relations can be modeled mathematically. If you know what the MUF is, you can calculate what the critical angle or critical frequency is. Similarly, if you know either the critical angle or critical frequency, you can calculate the MUF.

It is important to note that the models for calculating MUF and critical frequency are more reliable for other types of propagation than Es. Generally, the isecant lawî is used to make these calculations, but under some conditions can underestimate or overestimate MUF for Es.

For a moment, if we assume that the model holds true, we can plot the relation between critical frequency and MUF. This is demonstrated in Figure 5.

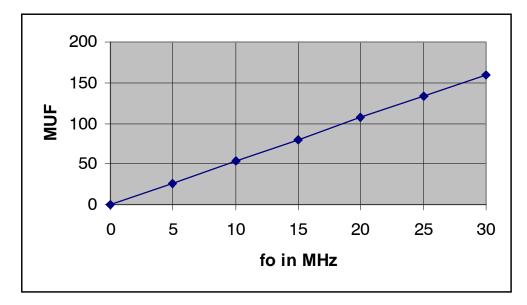


Figure 3 Critical Frequency and MUF

Figure 5 shows a linear relation between MUF and fo. This is derived from two common formulas:

$$MUF = 48\sqrt{N}$$
$$f_o = 9\sqrt{N}$$

ĺ

N represents the electron density in e/m³. Observations have shown that Es does NOT have a totally linear relation as the above formulas would indicate. Despite this, this discussion is important to understand the principles involved.

Why is any of this useful, anyway? Critical frequency measurements are recorded by ionosondes ñ devices that transmit a spectrum of waves straight up, and determine the height and strength of the reflection, and determine the critical frequency. Many observatories and research centers continuously monitor the ionosphere, and some even post the results near real-time on the internet.

2.3 Cloud Movement

Within the ionosphere at the E region and below, strong currents exist. After the formation of an ionized cloud, these currents move the cloud, usually to the west or northwest. Just as weather patterns generally move in one direction (west to east) localized events can and do cause weather to occasionally stagnate or even move in the opposite direction. Similarly, sporadic-E clouds can move in any direction on occasion ñ especially north and south (and less likely to the east).

The velocity of these clouds has been measured in a variety of ways. These include the use of Doppler shifts and VHF oblique propagation. The result varies between 20-130 m/s (110+ mph). Higher velocities are also thought to exist.

Calculation of the velocity of clouds through the use of VHF oblique propagation is slightly less scientific, but a process that anyone observing an Es opening can use. The process revolves around plotting the location of the cloud by identifying the transmitting and receiving locations. A line is drawn between the two points, and the midpoint identified. The midpoint is the approximate location of the ionized area. Several data points are necessary, and a long period of

time required to make this approximation. Possible caveats to this method include irregular shaped clouds and the existence of multiple clouds of ionization confusing the location.

Measuring Doppler shifts requires the use of highly technical (and expensive) equipment. In spite of this, errors in this method exist as well. The part of the cloud reflecting the wave may have a different velocity than the cloud as a whole. A strong analogy is that of a balloon. A balloon may be moving in one direction, but the molecules inside are moving in random directions.

2.4 Daily Variation

It has long been known that Es doesnít simply occur iduring the dayî. It is known that ionization levels throughout the ionosphere tend to have two peaks, centered on either side of noon. Es occurrence seems to follow a similar trend.

Figure 6 is a graph of the occurrence of Es during summer months. As can be seen, the summer peak is in the morning (0700-1200) and a secondary peak occurs 2000-2200. This graph comes from White Sands, NM over a 7 year period. It is important to note that the White Sands data seemed more iskewedî towards the morning peak than similar measurements taken in other mid-latitude locations. However, *all* indicated a slightly stronger likelihood of Es in the morning than in the afternoon/evening.

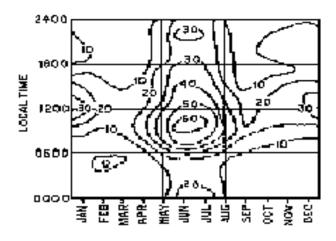


Figure 4 Percentage of time Es exceeds FoEs of 5 MHz, from White Sands, NM 1948-1954

Figure 6 was obtained from *A survey of the present knowledge of sporadic-E ionization*, JA Thomas and EK Smith, Journal of Atmospheric and Terrestrial Physics Vol 13.

Remember that despite the apparent greater likelihood of Es in the morning hours, this data was collected over a period of years. This diurnal characteristic is much less noticeable in the day to day casual observation of DXíers. And donít turn the radio off after dark! Many still remember an opening that occurred after midnight on June 19, 1992, resulting in MUFís of 144 MHz+.

Additionally, during the winter peak (discussed in the next section), Es is most common just after sunset.

2.5 Monthly Variation

In observing Es on a larger time scale, it is well documented that Es occurs most often in the summer, with a secondary peak in the winter. These peaks are centered very close to the solstices. The summer peak can be characterized by probability of occurrence being 5 to 8 times that of winter. The use of the descriptors is unmerî and iwinterî is intentional, as the peak in the Southern Hemisphere is in it's summer months, which is the Northern Hemisphere's winter.

Similar to the diurnal characteristics discussed in the previous sections, year to year observations will not always demonstrate the inormali behavior. Some years have occurrences common in ioff peaki months, such as October and February. Other years peak early or late.

2.6 Annual Comparison

Patrick Dyer, WA5IYX and Emil Pocock, W3EP, have shown that there seems to be a pattern to the quantity of Es observed each year.¹ These observations come from use of his records over the 11 year period in which Dyer consistently monitored the FM band. He noted a potential 4 to 6 years cycle.

(continued next month)

¹ See P.J. Dyer and E. Pocock, "Eleven Years of Sporadic E", QST, March 1992, pp 23-28

WHAT ABOUT OFFSETS?

Q. Would someone explain to me the so-called frequency offset (z-, 0, z+) that I see listed in some VUD entries? What is the purpose of being offset from the nominal frequency?

A. Many TV stations operate 10KHz either side of where they "should be". For example, most documents you see will show that the video carrier frequency for channel 2 is 55.25MHz. But KDKA-TV channel 2 in Pittsburgh actually broadcasts on 55.24MHz; WJBK-TV channel 2 in Detroit is on 55.26MHz. These stations are considered to be on "minus" and "plus" offsets respectively. WDTN channel 2 in Dayton actually does broadcast on 55.25MHz, and is considered to have "zero offset".

If two or more stations come in at the same time on the same channel, they interfere with each other. If the interfering station is relatively weak, you may only see some horizontal bars on the screen. (similar to interference on the AM radio band, where a weak adjacent-channel interfering signal may show only a tone (heterodyne) and no program audio)

The number of interference bars depends (up to a limit) on the difference in frequencies of the two stations. (again, just like AM radio where the pitch of the interference tone depends on the difference in frequencies of the stations) Since the screen is only so large, if there are more interference bars, they must be smaller. RCA/NBC tests in the late 1940s/early 1950s found that the appearance of the bars was least objectionable (when considering the frequency tolerance of the transmitters) for a frequency difference of 10KHz.

(it should be mentioned that it was much harder to keep a TV transmitter on the right frequency in 1950 than it is today. Stations were - and still are - required to be within 2KHz of the right frequency; today, the vast majority are much, much closer. Some are within 0.002KHz.)

So, the FCC assigned nearby stations on the same channel (such as the three mentioned in the first paragraph) to different frequency offsets. When the U.S. sat down with Canada and Mexico and negotiated channel assignment agreements along our borders, offsets for Canadian and Mexican stations were written into the agreement as well.

In Europe, there are more than three offsets. (indeed, I've heard some Europeans refer to American stations as being on "8M" or "8P" offset) Someone from there is going to have to explain them.

For some LPTV stations, you may see a "N" (No) offset. Originally, *all* translators/LPTVs were assigned no offset. This was a recognition of their lower power, and their frequent installation in harsh environments where frequent maintenance would be impossible. (Western mountaintops) The frequency tolerance was much looser than that required of a full-license station.

At some later point, the FCC agreed to allow some translators/LPTVs to run more power, provided they observed the same frequency tolerance regulations that applied to full-license stations. These more-powerful stations had to be assigned offsets as well. Doug Smith

METEOR SHOWER GUIDE

Meteors are always around, but not so much in February. Here is a list of showers we can look forward to in the near future. Happy MS Dxing!

SHOWER	RUNNING DATES	PEAK
Beta Centaurids	Feb. 2-25	Feb. 8-9
Delta Leonids	Feb. 5 – Mar. 19	Feb. 22-34
Sigma Leonids	Feb. 9- Mar. 13	Feb. 25-26
Rho Leonids	Feb. 14 – Mar. 13	March 1-4
Pi Virginids	Feb. 13 – April 8	March 3-9

2001 HIGH MUFs

Q. What were the highest MUFs of the 2001 E skip season?

A. I've been putting together some stats for the 2001 Es season as observed from Boulder, and recalculated the "top" theoretical MUF's based on my receptions.

The results indicate 2 potential 222 MHz MUF's occured, in addition to what John and Doug report.

When considering the few hams on 222 MHz looking for Es, and the very small footprints involved in any potential 222MHz opening, maybe it is possible that these theoretical MUF's are accurate.

Results are calculated using the Secant law derivation. Note that the secant law is thought by some to be too conservative, and thought by many others to be too generous when applied to Es.

The MUFís noted would only be observed at the optimal geographical location with respect to the Es ionization.

5/26 (195 MHz) 6/21 (224 MHz) ñ 483 mile reception to AZ at 88.7 6/27 (197 MHz) 6/28 (187 MHz) 6/30 (183 MHz) 7/7 (207 MHz) ñ 585 mile reception to AZ at 95.5 7/11 (176 MHz) 7/12 (230 MHz) ñ 585 mile reception to OK at 106.1 7/13 (189 MHz) 7/18 (199 MHz)

Hereis the formula. Sorry for the odd nomenclature ñ itis hard to display with ascii.

Fm=2239f*sqrt(420^2 + d^2)

Fm= MUF f = observed frequency d = distance in km at the observed frequency sqrt = square root

-Mike Hawk



NO DOUBT ABOUT IT!

KENWOOD made some Great tuners for FM Dxing!

Check out Mike Hawkis Tuner Reviews at http://www.amfmdx.net/fmdx/tuners.html

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