



AM Switch

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Status changes in AM stations, supplied by the FCC, CRTC, and listeners

CALL LETTER CHANGES

	<u>Old Call</u>			<u>New Call</u>
1150	WRUN	NY	New Hartford	WUTI
1190	KRFT	MO	University City	KQQZ
1450	WQCD	PA	Milford	WDRE
1670	NEW	QC	Gatineau	CJEU



CPs ON THE AIR

980	WHAW	WV	Lost Creek - U1 25000/47. This is only a change in City-of-License from Weston.
1500	WDPC	GA	Dallas - D4 5000/0 CH 3200.
1670	CJEU	QC	Gatineau - U1 1000/1000 at 45-30-28/75-41-43.

ACTIONS

600	WREC	TN	Memphis - Coordinate adjustment to 35-11-41/90-00-36.
1090	KFXX	OR	Portland - Coordinate correction to 45-33-30/122-29-09.
1190	KDYA	CA	Vallejo - CP granted for D3 3000/0, moving the transmitter to that of the current four-tower site of co-owned KDIA-1640 at 38-08-03/122-25-32. The new pattern directs the bulk of the signal in a balloon shape toward the northeast, with minor lobes to the south, southwest and northwest.
1210	KQEQ	CA	Fowler - CP granted for U5 5000/370. The day transmitter is using three towers of the KXEX-1550 four-tower site in Herndon at 36-46-14/119-55-20, while the night facility remains at 36-39-37/119-41-01. The new pattern is an 'almost-circle' directed to the south east.
1700	KBSZ	AZ	Apache Junction - Licensed to Wickenburg on 1250, KBSZ holds a CP to move here with U1 320/50 on 1260 kHz. They followed up with an amendment for U1 800/50. In order to determine the conductivity of soil where they are proposing the new transmitter site, they have been authorized D1 1000/0 on 1700 kHz to conduct these tests.

APPLICATIONS

1090	KBAL	TX	Bellville - Applies for D4 10000/0 CH 10000.
1180	KERN	CA	Bakersfield - Applies for N1 0/120 for 'experimental' purposes.

AM on FM

950	KNFT	NM	Bayard - KZXQ-104.5 Reserve
950	KJTV	TX	Lubbock - K264AN-100.7 Meadow
860	WNOV	WI	Milwaukee - W273AT-102.5 Milwaukee

DISMISSALS

720	NEW	CA	Chowchilla - Application for U4 250/900.
740	WDGY	WI	Hudson - Application for D3 5500/0.
1090	KFXX	OR	Portland - Construction Permit for U4 50000/9000. They remain U4 50000/10000.

APPLICATIONS FOR NEW STATIONS

980	NEW	AK	Kenai - Applies for U1 5000/500.
1120	NEW	WA	Yelm - Applies for U4 10000/6000.

HEAR AND THAR

☞ Returning to the airwaves: **WAMG-890 Dedham, Massachusetts** with Spanish Tropical: *La Mega*; and **WUTI-1150 Utica, New York**, which was off for about a week, but now has new owners and is back. They have a CP to change their city-of-license to New Hartford.

◆ Reported as Silent: **KBAL-1190 Bellville, Texas**; **WPAZ-1370 Pottstown, Pennsylvania**;

WIRB-1490 Level Plains, Alabama; and WWDN-1580 Danville, Virginia.

◆ **FINES:** Sorry, none this week.

◆ **NEWS ITEM:** Mexican and U.S. officials, in discussions over shared communications issues, have laid out a plan for what they'll talk about in the next couple of years. It includes IBOC interference and other points of interest to radio and TV broadcasters. FCC Chairman Julius Genachowski has given his support to three actions coming out of meetings of administration officials on the United States-Mexico High-Level Consultative Commission on Telecommunications. One is a joint statement about continued coordination on spectrum along the border and cooperation on communications issues of mutual interest. Another is a communications protocol to govern public safety use in the 4.9 GHz band. Of immediate interest to broadcasters, the U.S. and Mexican governments also approved a work plan for the next couple of years that includes work on an agreement toward protection of television stations on Channel 6 from operation of some FMs along the border; technical criteria involving digital radio along the border as well as to eliminate "claimed harmful interference to Mexican radio stations allegedly caused by the temporary operation of U.S. stations using the IBOC system"; a possible new framework agreement for TV services; and working to finalize verification of a database of AM stations in 535-1605 kHz.

◆ **Thanks to Shawn Axelrod, Marc DeLorenzo, Wayne Heinen, Dave Lines, Barry McLarnon, Dave Schmidt and Radio World Online.**

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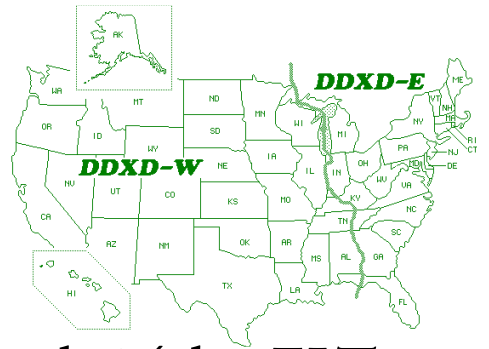
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Domestic DX Digest

West: Jim Tedford Radio_Enthusiast@hotmail.com
20310 Bothell-Everett Highway B4 - Bothell, WA 98012-8133

East: Mike Brooker aum108@idirect.com
99 Wychcrest Ave - Toronto, Ontario M6G 3X8 CANADA

(Division line
is between East
and Central time
zones)



DX Catches in the U. S. and Canada, with 24-hr. ELT

DDXD-West

Hallo from the flash-frozen Pacific Northwest. I hope the generally lousy winter weather across much of continental North America hasn't been too hard on everyone. Dale Park, you can stop laughing now. Hopefully being stuck indoors means spending some quality time at the radio.

Good to hear from new reporters John J. Rieger, John Malicky (reporting from on the road). Welcome, gentlemen.

Reporters

- DP-HI** Dale Park, Honolulu HI Sangean ATS-818CS
GH-KS Gary Houdek, Munden Kansas GE Superadio.
JDS-MN Jeff Steffes, Watertown, MN Kenwood R-2000, Quantum QX Loop
JJR-WI John J. Rieger, South Milwaukee, Wisconsin Icom IC-R75, Kiwa loop, MFJ-959B tuner-preamp.
JM-MO John Malicky, en route to Springfield, Missouri. Delco car radio.
JW-CO John Wilkins, Wheat Ridge, Colorado. Drake R-8, 4-foot box loop.
SA-MB Shawn M. Axelrod VE4DX1SMA, Winnipeg, Manitoba Icom ICR-70, Drake R8, 4' unamplified box loop / Quantum Loop / 155' outdoor wire; 100' indoor wire, MFJ 1060 phasing unit.
WH-CO Wayne Heinen, Aurora, Colorado Kiwa Loop Drake R8B, E/W Flag, N/S Flag, Dual TG-1 Termination Gizmo w/DX Engineering RPA-1 preamp and Mini DXP5.

Station News

- 620 KHNU HI Kalaoa and Hilo** 11/30 0120 Noted with dead air. Thought stn was affected by windstorm but heard at 0159 ID, ABC-E nx and local commercials before returning to dead air instead of satellite programming. Barely perceptible EE-lang mx heard, prob. not KPOJ-OR or XESS. **(DP-HI)**
- 1110 KAOI HI Kihei** 11/20 Now IDing at TOH as "KAOI AM Kihei, 11-10 AM and 96-Point-7 FM," meaning stn has taken over translator K244AG-FM from sister station KAOI-FM, which the following week moved its tower and cut back its power by 96.5 percent. Also noted on 11/20 that stn added Content Factory's Dan Patrick 2200-2400 (the last two hours), cutting into the airings of Ed Schultz and Stephanie Miller and it now runs the full Kim Komando at 2006-0100 Saturdays. **(DP-HI)**
- 1300 KBRL NE McCook** 12/08 0700 out of Fox Sports Radio programming, program notes "Log on to www.plainsreporter.com The Big Talker KBRL McCook" to ABC News, Format change from OLD to TLK/SPT for this one. **(WH-CO)**

DX Test Heard

- 1550 WSRY MD Elkton** 11/29 0041 Caught Morse Code ID's under CBE. New station for me. **(SA-MB)**

Tentative/Unidentified

- 1540 KMPC CA Los Angeles** 11/30 0128 Very poor w/very weak KK programming. Local KREA off due to gusty winds, so at least there was still KK on the channel, hi. Also noted off at 0120 due to wind were KWAJ-1080, KNNDI-1270 and KKEA-1420. Weak signals also noted on 1080, 1270 and 1280. Station noted back on around 0200. Tentative. **(DP-HI)**
- 1710 UNID** 12/06 0420 Heard non stop 70's and 80's light rock music. Possible ID by a man around 0436 but could not make it out. I checked to make sure it was not an image of a local. Rare station here on 1710 but of course no ID heard.

Any help would be greatly appreciated. **(SA-MB)**

DX Logs (All Times ELT)

- 560 **KWTO** **MO** **Springfield** 12/10 1800 TOH "AM 560 KWTO Springfield" into news. **(JDS-MN)**
- 590 **WJMS** **MI** **Ironwood** 11/26 0723 Fair @20/9. Never this strong! Real Country, many local ads, announcements. **(JJR-WI)**
- 680 **CJOB** **MB** **Winnipeg** 12/10 1835 Weather with temperature given as -25, followed by "CJOB News." **(JDS-MN)**
- 740 **CFZM** **ON** **Toronto** 12/10 1850 Song: Ringo Deer, into "Sixties at Six" followed by commercials: AM 740 Holiday Hope Fund, Sleep Country Canada, Cadillac, into Station ID: "Zoomer Radio AM 740." **(JDS-MN)**
- 750 **KBNN** **MO** **Lebanon** 11/2 1300 ID "...it's *Brian and the Judge* weekday mornings from 8-11 right here on KBNN Newstalk 750 Lebanon" into IRN/USA radio news. **(JM-MO)** How anyone can take *Brian and The Judge* at 8 in the morning I'll never know, but you have to give them points for programming guts. **(JDT-WA)**
- 850 **KOA** **CO** **Denver** 11/2 2100. ID "On-air, on-line, on-demand and on your iPhone and Blackberry, Newsradio 850 KOA Denver, 850KOA.com; it's 7 o'clock. **(JM-MO)**
- 850 **WAIT** **IL** **Crystal Lake** 12/11 0816 Station Sign-on, Star Spangled Banner, followed by male announcer "Good morning and welcome to AM 850 WAIT" **(JDS-MN)**
- 860 **KKOW** **KS** **Pittsburgh** 11/01 2003 mentioning "what does AM radio have that all FMs could only wish for? Well of course the best listeners there are. KKOW Pittsburgh-Joplin-Columbus." Then into Cowboy Corner and old time country music, sponsored by Marquis Feed Yards, Hereford TX and the National Cowboy Museum. **(JM-MO)**
- 900 **CKBI** **SK** **PrinceAlbert** 11/26 0742 Poor +steady w/ many ads, "CKBI Sports" o/anything. No usual CHML. C&W **(JJR-WI)**
- 930 **WLBL** **WI** **Auburndale** 12/04 0835 News followed by Station ID: "Ideas 930 AM WLBL Auburndale." **(JDS-MN)**
- 960 **KKNT** **AZ** **Phoenix** 12/09 2200 "... Conservative Talk Radio KKNT..." and SRN News w/KRWZ-950 IBOC off. **(WH-CO)**
- 960 **KMA** **IA** **Shenandoah** 12/09 2200 brief KMA Shenandoah ID quickly covered by KKNT w/KRWZ-950 IBOC off. **(WH-CO)**
- 960 **KOVO** **UT** **Provo** 12/09 2105 out of SS music "La Favorita" slogans fair w/KRWZ-950 IBOC off. **(WH-CO)**
- 970 **KQAQ** **MN** **Austin** 12/1 0705 Poor "KQAQ-970 Classic Country" after Fox nx. Way o/others. **(JJR-WI)**
- 1070 **WFNI** **IN** **Indianapolis** 11/26 0639 Fair -"1070the Fan in Indy" No usual WTSO, etc. **(JJR-WI)**
- 1160 **KSL** **UT** **Salt Lake City** 12/05 0816 KSL Outdoors into Station ID: "KSL News Radio." **(JDS-MN)**
- 1190 **KXKS** **NM** **Albuquerque** 12/03 0900 "AM 1190 KXKS" and into REL programming. **(WH-CO)**
- 1190 **KVSV** **KS** **Beloit** 12/03 0905 ending ABC news and KVSV local news. **(WH-CO)**
- 1230 **KRXK** **ID** **Rexburg** 12/04 2300 "Sports 24 hours a day 7 days a week KSEL..." faded up briefly. **(WH-CO)**
- 1230 **KSTC** **CO** **Sterling** 12/05 0200 "Pure Gold 1230 KSTC Sterling Colorado" and disappeared. **(WH-CO)**
- 1260 **KSGF** **MO** **Springfield** 12/09 0100 "... It's 12 midnight. You're listening to NewsTalk KGSF..." just above the noise. **(WH-CO)**
- 1260 **WNOO** **TN** **Chattanooga** 12/1 0656 Poor w/ calls w/WNDE, WSDZ. Request # and calls again. Rare! **(JJR-WI)**
- 1290 **KIVY** **TX** **Crockett** 11/26 0400. Dean Martin song Walking In A Wonderland; ID "KIVY Crockett, Texas" into ABC News. **(GH-KS)**
- 1290 **KMMM** **KS** **Pratt** 12/7 0859. Out of an Oldies tune with legal ID at 0859:30 by male voice: "You're listening to a Solid Gold...??...on KMMM Pratt". Mixing with several, so not sure what followed. **(JW-CO)**
- 1320 **KLWN** **KS** **Lawrence** 12/06 0602 "ESPN and the news and talk of Lawrence 1320 KLWN"



- to ESPN programming. **(WH-CO)**
- 1320 KELO SD **Sioux Falls** 12/06 0900 "NewsTalk 1320 KELO Sioux Falls" to Fox news. **(WH-CO)**
- 1320 WILS MI **Lansing** 12/06 0803 Out of Fox and Friends promo "1320 WILS keeps you up to date with live Lansing news coverage every weekend with Michael Cohen" to local news. My 14th new one this season taped and added to the collection. **(WH-CO)**
- 1340 KADI MO **Springfield** 11/1 2300 ID "KADI AM 1340 Springfield" then IRN/USA news and talk. Shares studios with KADI FM 99.5. **(JM-MO)**
- 1360 WGFA IL **Watseka** 11/26 0733 Poor w/ farm info, calls, WGFAradio.com. No usual WTAQ. **(JJR-WI)**
- 1380 KOTA SD **Rapid City** 12/08 0751 Commercials for Sears Auto Center and Chevy Equinox, followed by "KOTA weather brought to you by Dale's Tire." **(JDS-MN)**
- 1390 KJPW MO **Waynesville** 11/2 1500 ID "The talk of Pulaski County 1390 KJPW AM Waynesville, St. Robert and The Fort (Leonardtwn)" then into Fox News Radio. Sister station of KOZQ-1270. **(JM-MO)**
- 1400 KGMY MO **Springfield** 11/2 ID: "Broadcasting from the great American Lager Budweiser Studio, KGMY, Springfield's sports station ESPN 1400, catch us on the web at espn.1400.com" into ESPN Radio SportsCenter. Station located in the old Tower Theatre with 4 FM stations. **(JM-MO)**
- 1440 WZYX TN **Cowan** 12/1 0727 Poor w/ calls popping thru into OLD. **(JJR-WI)**
- 1500 WBZI OH **Xenia** 12-1 0721 Poor w/ lively jock w/ 1090-1500 announcements. Bluegrass, OLD C&W. Rare! **(JJR-WI)**
- 1530 KQSP MN **Shakopee** 11/29 1000. Man with legal ID a few seconds after ToH: "Twin Cities...??...La Picoso AM 1530 Shakopee-Minneapolis and St. Paul". Rough in QRM. Needed here for a call change, ex-KSMM. **(JW-CO)**
- 1560 KZQQ TX **Abilene** 11/27 0859. Legal ID at 0859:50: "All sports all the time, ESPN Radio 1560 KZQQ Abilene," then back to ESPN programming. Rough copy. **(JW-CO)**
- 1580 WHFS MD **Morningside** 12-1 0713 Poor - "1580 the Big Talker" into ads, o/anything. **(JJR-WI)**
- 1600 KTVI MO **Sullivan** 11/2 1700 ID: "AM 1560 KTVI Sullivan. It's 4 o'clock." IRN/USA news; also on sister KTVI 102.1 MHz, with about an eight second delay. Visited station and met veri signer from 1983 Wilma Scott! **(JM-MO)**

How many AM DXers does it take to screw in a light bulb? Ten-one to screw in the light bulb, and nine to complain about the QRN. Thank you! I'm here all week. And see you next week (Nope, the week after! -pls.). **(JDT-WA)**.

DDXD-East

REPORTERS

- JC-DE **John Cereghin, Smyrna** - FRG 7, various ultralights
- HF-MI **Harold Frodge – Michigan Area Radio Enthusiasts DXpedition, Brighton** - Drake R8B + 500 ft. NWish unterminated beverage, 85 ft. TTFD, 86 ft. vertical coil dipole
- KK-VA **Kraig Krist, Manassas** - NRD-545, homemade 134 foot multiband antenna running NW to SE.
- DL-MD **David Larrabee, Columbia** - RF Space SDR-14, Quantum Phaser on a pair of DX Engineering active verticals
- JM-PA **John Malicky, Pittsburgh** – Superadio III
- JM-PA1 **John Malicky, on the road in PA** – Delco car radio
- GS-ON **Greg Shoom, Toronto** - JRC NRD-525; Palstar R30; Eton E-100
- MKB-ON **Mike Brooker, Toronto** – Grundig G5, Grundig YB-400PE, Sony SRF-39FP, Panasonic RF-2200 (receiver emeritus)

STATION NEWS

- 860 WAMO PA **Millvale** – still off the air as of 12/1 with sale to St. Joseph Missions. Per KDKA-TV, legendary voice of WAMO in the 1960s John Christian, aka "Sir Walter Raleigh" and "Royalty on the radio" passed away at age 92 on 11/29. **(JM-PA)**

DX TEST

- 1550 WSRY MD Elkton – 11/29 0020 – fair-good over/under CBE and UNID SS station with “a DX test on WSRY”. Repeated loop of siren tones, IDs, oldies songs, “another turkey” address, power, mentioned by Dan Oetting who organized the test. **(JM-PA)**
 +++ - 11/29 0020 - DX test broadcast on day power of 1 kW. Heard talk and music under dominant CBE, sweep tones and Morse code IDs: “V V V de WSRY WSRY WSRY WSRY K”. Unable to copy the programming but the Morse IDs were clear. New. **(GS-ON)**

COMING SOON TO A RADIO NEAR YOU

- 1670 CJEU QC Gatineau – 12/10 2030 – fighting off WTDY (and winning), testing with non-stop FF children’s and Christmas songs, slogan “Ici Radio Enfant”. Format will be Disney-like children’s programming; “jeu” means game in FF. **(MKB-ON)**
 +++ - 12/10 1830 - FF, mix of vocals, instrumentals and Christmas music, “Ici Radio Enfant” ID by kids. **(JC-DE)**

LOGGINGS

- 550 WGR NY Buffalo - 12/4 1855 - Mixing with other talk stations, promo “Your home for play by play Buffalo Sabres action. WGR Buffalo sports radio five fifty”. College basketball pregame show. ID as “WGR sports radio five fifty”. **(KK-VA)**
- 560 WFRB MD Frostburg - 12/4 0747 - ad for Home Depot, website promo “Talk radio five sixty dot com”. News with “Edward Jones in downtown Frostburg”. **(KK-VA)**
- 570 WDOX NC Raleigh - 12/4 0600 – noted one hour before local sunrise: “...five seventy, WDOX Raleigh”, into ABC news. Station faded up from a weak Reloj moments before the top of the hour. No IBOC problems. **(DL-MD)**
- WKBN OH Youngstown - 12/4 0000 – ToH ID as “News Radio five seventy, WKBN”. No IBOC issues. Tick & ‘RR’ from Cuban Reloj with SS females reading news under WKBN. **(DL-MD)**
- 580 WGAC GA Augusta - 12/4 0605 – end of CBS news into local news: “Welcome to Augusta’s morning news with Harley Drew and Mary Liz Nolan...five minutes after six o’clock, Augusta’s morning news getting underway...” Mary Liz Nolan is featured on WGAC’s Web page. IBOC interference to USB from IBOC coming from 600 kHz. **(DL-MD)**
- WCHS WV Charleston - 12/4 0000 – ToH ID as “You are listening to West Virginia’s legendary news, talk, and sports station of the year, fifty eight WCHS Charleston” into ABC news. Interference to WCHS USB from LSB IBOC from 600 kHz. Faded to WHP at 0005. **(DL-MD)**
- 590 WMBS PA Uniontown - 12/4 0600 - In heavy co-channel one hour before sunrise: “...five ninety AM WMBS Uniontown Pennsylvania” CBS News. IBOC interference on 590’s LSB from 600 kHz. **(DL-MD)**
- 600 WMT IA Cedar Rapids – 11/19 1803 – fair-good with local news, ads, weather, “Time saver traffic” on “News-talk 600 WMT”. **(JM-PA)**
- 680 WPTF NC Raleigh - 12/4 0600 - In heavy co-channel, ToH ID as “WPTF Raleigh and WPTF dot COM. WPTF news time six o’clock...” IBOC interference from 670 kHz. **(DL-MD)**
- 790 WPIC PA Sharon – 12/7 0810 – over WAEB and C&W station (likely WLSV) with end of program promo “...weekdays at 7 on News Talk 790 WPIC” into local weather. **(MKB-ON)**
- WAYY WI Eau Claire – 12/11 1728 – alone on frequency (no dominant pest on 790 since demise of CIGM) with station promo “News talk 790 WAYY...depend on it”, wayy790.com website promo, disappeared at 1730 presumably due to pattern change. QSLed as WEAQ on CPC test in 1994. **(MKB-ON)**
- 810 WHB MO Kansas City – 11/19 1746 – fair-good in WGY null with ads, sports talk, “the power of sports, Sports Radio 810 WHB” slogan. Cut power just before 1800. Heard and verified in 1979 as KCMO. **(JM-PA)**
 +++ - 12/11 1721- fighting partially nulled WGY with talk on Kansas University basketball, local Arby’s ad: “Happy holidays Kansas City...introducing

- Arby's five-dollar roast beef patty melt combo at your greater Kansas City area Arby's". **(MKB-ON)**
- 830 KOTC MO Kennett – 11/19 1730 – weak to fair with talk show in WCCO null, “My talk 830 KOTC” slogan. New, on good opening to the Midwest. **(JM-PA)**
- WTRU NC Kernersville – 11/23 1752 – fair-good in WCCO null with “Truth Talk Live” and other religious programs on “Truth Radio Network”. ID as “AM 830 WTRU Kernersville, Winston-Salem, Greensboro, High Point, Burlington, and online at WTRU.com. **(JM-PA)**
- WKTX OH Cortland – 11/24 1400 – fair with “AM 830 WKTX” Cortland” ID, IRN/USA news, local ads. Runs nostalgia music for 2 hours, then flips to ethnic format. **(JM-PA)**
- 890 WKNV VA Fairlawn – 11/8 1703 – fair with gospel music, ads, ID as “Joy 890 and ...” mentioning some FM frequency. Also heard slogan something like “Today’s Southern Gospel Music”. New. **(GS-ON)**
- 920 WGKA GA Atlanta – 11/23 1634 – up briefly with Atlanta area “traffic watch”, then into Michael Medved. **(JM-PA)**
- WPCM NC Burlington – 11/23 1635 – fair with weather “sponsored by Commodore Homes”, oldies, female DJ with slogan “the best oldies worth listen to on AM 920 WPCM”. **(JM-PA)**
- 930 WHLM PA Bloomsburg – 11/25 1600 – ID as “the voice of Columbia County...(tone)... WHLM Bloomsburg, Berwick, Dansville, your local news, sports and weather station, good afternoon, I’m Larry White on News Radio 930 WHLM”. Also runs CBS news at 2 or 3 minutes past the hour. **(JM-PA1)**
- 940 WCPC MS Houston – 11/30 0800 – fair with ID as “WCPC AM 940 Houston-Tupelo-Columbus...radio that changes the way you live”, local ad into “Discipling the Nations” religious program. **(JM-PA)**
- 950 WORD SC Spartanburg – 11/24 1806 – up briefly with “News Radio 950 WORD” ID and local news. **(JM-PA)**
- 960 WKVX OH Wooster – 12/7 0823 – fighting off Thunder Country pest (WHAK) with slogan “the best of rock and roll oldies only on 960 K VX” into “Mustang Sally” by Wilson Pickett. **(MKB-ON)**
- 970 WZAN ME Portland – 11/9 0015 - End of Sunday Night Football broadcast, wrap-up of game, ads, callsign IDs with location. Then into some talk show already in progress. Overwhelming normally-dominant WNED. Re-log, but first logging from Toronto - previous logging was from Newfoundland in 2007. **(GS-ON)**
- 1050 WYBG NY Massena - 12/7 0700 - just caught ToH call ID, but no other details. **(JC-DE)**
- 1130 WISN WI Milwaukee – 12/5 0906 – fighting off WBBR/WDFN mix with local sports (Bucks, Packers), into local weather, “now your news-talk WISN forecast”. **(MKB-ON)**
- 1230 WFOM GA Marietta - 12/6 2355 - Mixing with singing. At 0000 “WFOM...” ID by man. **(KK-VA)**
- WABN VA Abingdon - 12/4 2240 - call ID noted in fade up, then back into gumbo. **(JC-DE)**
- 1250 WARE MA Ware – 12/6 1745 – poor with oldies, Fox news on the hour, weather, and then ID with callsign. Also ID as “Oldies 1250”, into nostalgia music. Mixing with and occasionally overpowering semi-local CJYE. New. **(GS-ON)**
- 1290 WFBG PA Altoona – 11/25 0933 – local ads for the Altoona Mirror (newspaper) and Bible Church on “Big 1290 News Talk WFBG”. Now simulcasts with WHUN-1150. **(JM-PA1)**
- 1360 WCHL NC Chapel Hill - 12/10 0715 - morning-type features, sports, weather, “Local and community news you can’t get anywhere else, we’re AM 1360, WCHL, Chapel Hill” station promo. **(JC-DE)**
- WMNY PA McKeesport - 12/8 1700 - “Pittsburgh Business Radio” liner, call ID, Pittsburgh area news. **(JC-DE)**
- 1430 WVAM PA Altoona – 11/25 1200 – ID with voice of Penn State sports Steve Jones, “this is your home for Penn State sports, ESPN Radio 1430 WVAM Altoona”. **(JM-PA1)**
- 1490 WSGB WV Sutton – 12/9 1400 – noted on car radio with “Oldies Radio 1490” liner. **(JC-**

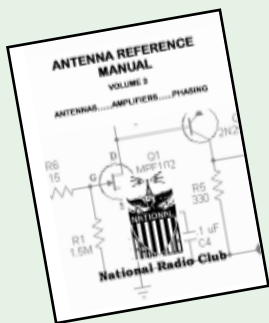
DE)

- WPAK VA Farmville - 12/3 2200 - "This is the Three Angels Broadcasting Network". Presumed the one as this is the only 3ABN affiliate listed on this frequency. (JC-DE)
- 1510 WWHN IL Joliet - 12/1 1730 - weak-fair, mostly under WLAC, with black gospel music on "1510 WWHN", then cut power abruptly at 1745. (JM-PA)
- WWZN MA Boston - 11/28 0859 - fair with ID "1510...1510...1510 (with cheering sound effect) WWZN Boston", Sporting News Radio sports talk, and promos for www.revolutionboston.com Web site. (JM-PA)
- 1540 KTGG MI Spring Arbor - 12/5 1237 - Christmas music; ID as "WJKN" (1510 Jackson MI, their / /); 1510 covered by WLAC, Fox News-Talk) at ToH. Rapid cycle peaks with WADM & CHIN. (HF-MI) Unlike KDKA or KYW, KTGG's K-call was not grandfathered from the 1920s. Apparently the FCC mis-read their application, believing the city of license to be in Montana (MT) rather than Michigan! Mike.
- WADM IN Decatur - 12/5 1237 - C&W music; legal at ToH. Rapid cycle peaks w/ KTGG & CHIN. New. (HF-MI)
- KXEL IA Waterloo - 12/6 0115 - Received when local CHIN was transmitting only a silent carrier. Talk show "Midnight Radio Network", ads, ID for "News Talk 1540 KXEL". (GS-ON)
- 1550 KLFJ MO Springfield - 12/4 1734 - "Right here in Branson" and several other Branson spots. Peaks over/under WAZX. New. (HF-MI)
- WAZX GA Smyrna - 12/4 1734 - "Que Buena" promo; SS baladas with promos after each song. Copyable peaks over/under KLFJ. (HF-MI)
- 1560 KGOW TX Bellaire - 12/4 1748 - Houston-area traffic report for I-10, I-610 & Katy Freeway. Poor mixing with WQEW and UNID religious station. New. (HF-MI)
- 1630 WRDW GA Augusta - 12/6 0204 - Promo saying to log on to wrdw.com. Sports show "Sporting News Radio". Ads, including a spot for a blood donor clinic in Augusta. Mixing with KCJJ, mostly dominant. (GS-ON)
- KCJJ IA Iowa City - 12/6 0204 - Rock music noted mixing with WRDW. (GS-ON)

Broadcasters' Guides to DX

Four different tri-fold guides for use with reception reports explaining DX'ing, how the NRC was formed, and the importance of QSL's to DX'ers. AM editions in English (EEG), Spanish (SSG), and French (FFG); FM edition in English (FMG). 20 for U\$3.95 (\$4.50 non-members) from NRC Publications - P.O. Box 473251, Aurora CO - 80047-3251. (CO residents, please add 3.5% sales tax.)

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International DX Digest

Bruce Conti nrcidxd@aol.com
46 Ridgefield Drive
Nashua, NH 03062-1174

Foreign DX Catches. All times are UTC

Transatlantic DX

- 171 **KALININGRAD** *R.Rossii*, Bolshakovo DEC 9 2112 - Good; Russian language with talk by man and then a woman, on top of channel with music under them. The music seemed to parallel Morocco on 9575 kHz. [Barstow-MA]
- 261 **BULGARIA** *R.Horizont*, Vakarel DEC 8 2150 - Talk in weak. [Barstow-MA]
- 261 **RUSSIA** *R.Rossii*, Taldom DEC 8 2145 - American blues program with Russian announcer through the hour. 2200 pips (3 normal and one longer, then 3 short) then ID in Russian. Fair-good. [Black-MA]
- 531 **ALGERIA** *Chaîne 1*, El Ain Beida (35°49'N 7°19'E) DEC 9 0503 - See 549 item below, briefly noted in parallel. This one might be a new transmitter as well. My 4th TA on this channel! [Renfrew-NY]
- 549 **ALGERIA** *Chaîne 1*, Les Trembles (35°17'N 0°34'W) DEC 5 2223 - Parallel 891; two men in discussion in Arabic. Recorded; good. [Black-MA] DEC 9 0404 - Koranic recitation, brief sermon/comment, then music, headlines at 0430 then more music. Very strong signal, and some are speculating that this is a new transmitter fresh on the air. MW country #68 here. Also heard the following night DEC 10 at 0000. [Renfrew-NY]
- 594 **GERMANY** *MDR Info* synchros NOV 28 0326 - Talk parallel web audio. [Renfrew-NY]
- 603 **SPAIN** *RNE5* synchros NOV 27 0446 - Several speakers, White House gate crashers, Coca Cola ad, Depeche Mode, pips on the hour parallel web audio. [Renfrew-NY]
- 702 **FRANCE** *RMC Col de la Madone* (43°47'N 7°25'E) DEC 2 2145 - Weak French talk, *CRI* presumed. [Renfrew-NY]
- 702 unID DEC 9 2220 - Arabic music but could not find a parallel. This frequency a hard nut to crack. [Barstow-MA]
- 702.12 unID NOV 23 2121 - Het. *RMC* has been 702 dead on, so someone else here. [Renfrew-NY]
- 738 **SPAIN** *RNE1* Barcelona (41°23'N 2°12'E) DEC 8 0028 - Music and talk parallel web audio. Not easy to hear this one due to 740 CFZM Toronto. [Renfrew-NY]
- 756 **GERMANY** *Deutschlandfunk*, Braunschweig & Ravensburg DEC 9 2222 - Talk; fair over Spain. [Barstow-MA]
- 765 **SWITZERLAND** *RSR Option Musique*, Sottens (46°39'N 6°44'E) DEC 9 2225 - Nice signal with Christmas music. [Barstow-MA]
- 837 **FRANCE** *France Info*, Nancy (48°53'N 6°14'E) DEC 1 2130 - Weak talk parallel web audio. [Renfrew-NY]
- 864 **FRANCE** *France Bleu*, Villebon-sur-Yvette (48°41'N 2°14'E) DEC 5 2217 - "Après-match" phone calls parallel web audio. [Renfrew-NY] DEC 6 0140 - Good; Saturday night disco program, Andrea True Connection "More, More, More" among the hits. [Conti-NH]
- 963 **TUNISIA** *RTT* Tunis (36°48'N 10°10'E) DEC 8 2316 - Arabic music; weak to fair. [Barstow-MA]
- 972.1 **LIBYA** *Libyan Jamahiriya*, Sirte DEC 5 2100 - Carrier only at 972.096 kHz, continuous through 2230; parallel 1053 Libya per Sylvain Naud. [Black-MA] DEC 8 0017 - Just a big het. (*NDR* is always 972 dead-on.) Barry in Ottawa passes on a report from Sylvain Naud that this is Libya. Kaz comments that Libya is often just an open carrier through the night. [Renfrew-NY]
- 981 **ALGERIA** *RTVA Chaîne 2*, Algiers (36°40'N 3°09'E) DEC 8 2100 - Arabic music and singing. Top of the hour pips (5 regular and last higher pitch), theme music per Interval Signals Online, then man in Arabic accented French. Recorded; fair. [Black-MA]
- 1116 **SPAIN** *SER* synchros NOV 25 0340 - Parallel web audio. [Renfrew-NY]
- 1215 **KALININGRAD** *VOR* Bolshakovo DEC 8 2313 - Mixing with *Absolute Radio*. [Barstow-MA]
- 1386.04 **SPAIN** *Euskadi Irratia*, Ganguren DEC 11 2250 - Fair; talk parallel 1476 kHz. [Conti-NH]
- 1394.82 **ALBANIA** *TWR Fllakë* (41°22'N 19°31'E) DEC 11 2158 - Good; contact info with background folk guitar instrumental, 2200 one cycle of interval signal and off immediately. Presumed carrier from 1395 *Big L* noted after, without readable audio. [Conti-NH]
- 1413 **SPAIN** *RNE5* synchros DEC 11 2300 - Fair; time marker and fanfare into news. [Conti-NH]
- 1431 **DJIBOUTI** *R.Sawa*, Arta (11°31'N 42°50'E) DEC 8 2305 - Good in slop with music. [Barstow-MA]

1457.83 **ALBANIA** CRI Fllakë (41°22'N 19°31'E) DEC 11 2320 - Loud het against 1458 unID until 2330 sign-off. [Conti-NH]

1467 **FRANCE** TWR Roumoules (43°47'N 6°09'E) DEC 11 2300 - One cycle of interval signal, carrier momentarily off, then back on with English program. [Conti-NH]

Pan-American DX

780 **BRITISH VIRGIN ISLANDS** ZBVI Tortola DEC 7 1034 - "ZBVI Tortola" ID by woman then ad string; Nissan, BMF medical center and home improvement store. Recorded; good. [Black-MA]



Nutcrackers

Roy Barstow, Teaticket MA; Perseus, 50 x 30 SuperLoop at 63°.

Chris Black N1CP, South Yarmouth MA; Microtelecom Perseus, 35 x 90-ft Flag.

Bruce Conti, Nashua NH; SDR IQ, variable termination SuperLoop antennas 13 x 20-m east and 15 x 23-m south.

Jim Renfrew, Holley NY; Drake R8B, multiple longwires, Quantum Phaser.

73 and Good DX!

Finding foreign parallels online

Tips by Jim Renfrew

Intro and edited by Bruce Conti

Adjacent channel interference, propagational fading, and non-IDers are challenges faced by all DXers. However international DXers encounter the additional challenge of the language barrier. Even if the language is familiar, copying audio in a non-native language is often difficult at best through the noise and interference. Sometimes the best bet for identification of a received signal will be through parallel audio. A parallel can be a simultaneous relay or simulcast, a network of stations on multiple frequencies, or an online streaming audio feed. Jim Renfrew discusses three online services popular among DXers for finding parallels; DeliCast.com, www.listenlive.eu, and www.GlobalTuners.com.

DeliCast.com

DeliCast.com requires some self-orientation, that's for sure. The list of radio stations is in a screwy order, so I immediately relist it according to "NAME" on the tab above the list. Then I have to guess which page to head for, say RNE 1, is going to be about page 12 or so. In some cases the name we all know for the station may be slightly different from the way DeliCast names it. Looking for Alger Chaîne 1 from Algeria last night required me to guess Radio Algerie 1 as the tab to hit. Some are much less obvious than that. The Egyptian General Programme (as listed in the EMWG) is "Radio Cairo" on DeliCast. Russia is also that kind of case. Do you look under Radio Rossii, Radio Rossiya, Voice of Russia, or Golos Rossiya? In some cases, it simply works best to go to the official web page of the station to find the best audio stream, but then you have to be careful that you are not getting a podcast instead of the live audio. If everything's in English it can be figured out, but sometimes with odd languages you just have to guess. The little speaker icon could mean several things. I have a tab that allows me to translate web pages into English, but this is rarely worth doing. The translation either doesn't work at all or comes up with some very odd phrases. "Live Feed" = "Food Not Yet Dead" (I made that one up). And, like with American web audio, they sometimes start the live stream with an advertisement that is not part of the web stream that will follow. On top of this you also have to hope that the web audio delay is somewhat in synch with what you're hearing; five or ten seconds is manageable, but 30 or 60 seconds makes it very difficult unless the music is unusually distinctive.

ListenLive.eu

Listenlive.eu is better organized because the list is shown alphabetically from the start (sorted in a "Browse by Country" directory), and in the case of Spain the RNE stations are listed ahead of everything else, I guess government is privileged over commercial. But that's OK, because more often than not I'm looking for RNE audio. Listenlive also gives you choices in bit rates with the individual stations. However, DeliCast has streams from countries outside of Europe that listenlive does not have, like North Africa. When I tentatively had Syria, though, the Radio Damascus audio stream sounded like a scratchy skipping record. I checked back several days later - same thing. The IT department there must have been on vacation.

Global Tuners

Some stuff just isn't there to be found on DeliCast and listenlive.eu. I never found a web stream to match CRI programs on 702 Monaco or 963 Finland. In these cases I had better luck getting better audio by using Global Tuners (www.globaltuners.com). Even though you cannot ID a station this

way (i.e. cheat), at least you can get some better audio to compare with the fizz that you are hearing over the air at home. Global Tuners has its own learning curve. You have to figure out which radios are equipped for medium wave (a lot are not), and then be prepared to skip around until you find an available receiver. "Hijackjng" a radio that someone else is using is frowned upon and may be grounds for expulsion from the group. You also have to figure out which buttons to push to get the best sound, bandwidth, mode, etc. I found the hard way that looking for the "Best Quality" option is always the best. I was thinking lower quality would get the signal to me faster, but it simply froze up.

Don't forget to look for shortwave parallels in some cases. These are the best because there is no delay. Croatia has a good one 1134 and 7375 are the same program at times.

Oh, did I mention that all of this is going on while you are trying to DX, and having to wait for web streams to kick in rather than freeze, with radio audio that might last a minute before fading? Often hit or miss!

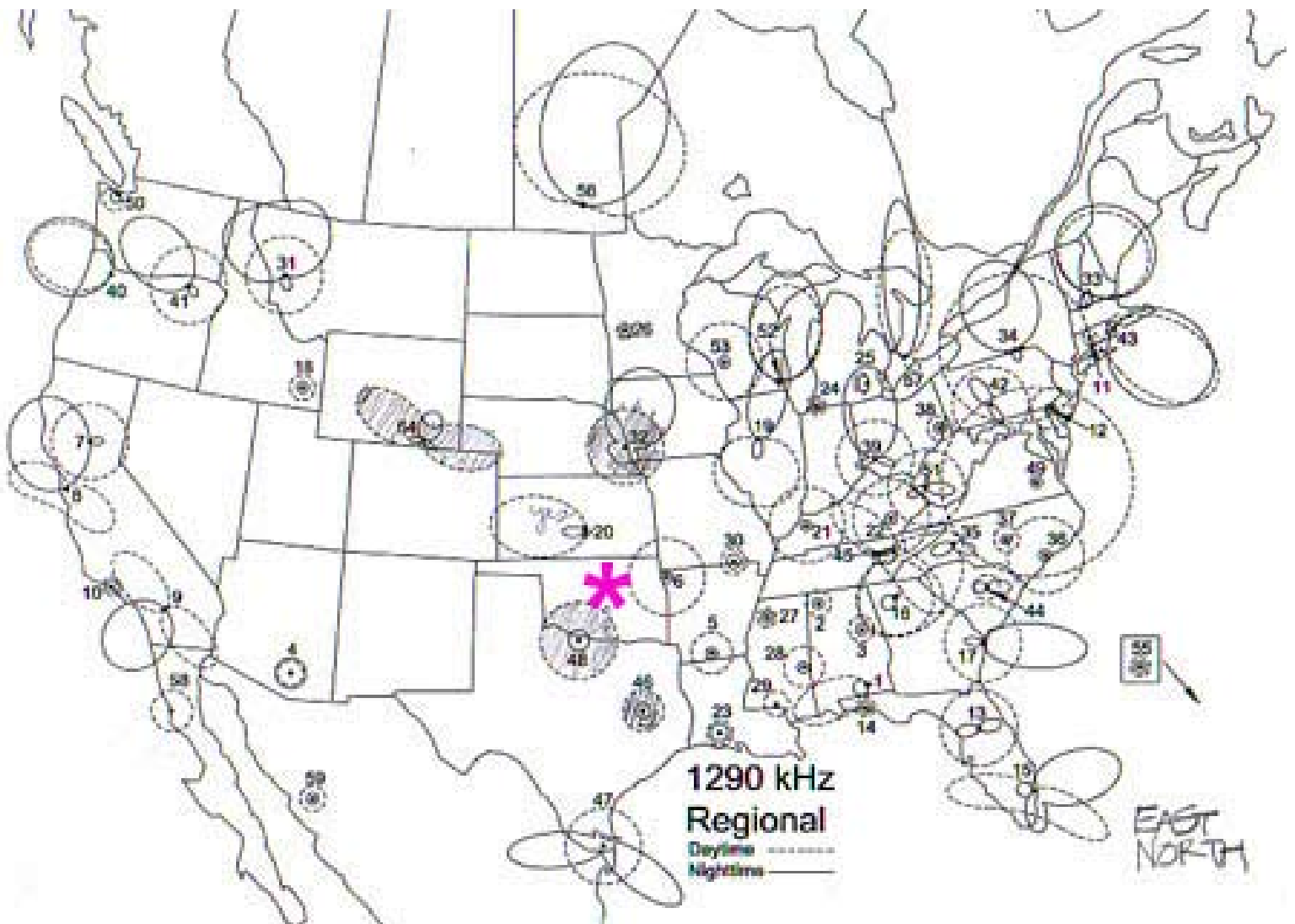
Postscript: Nick Hall-Patch also recommends www.multilingualbooks.com/online-radio.html as another source for streaming audio. 73

Using the NRC Pattern Book as a Serious DX Tool

By John Bryant

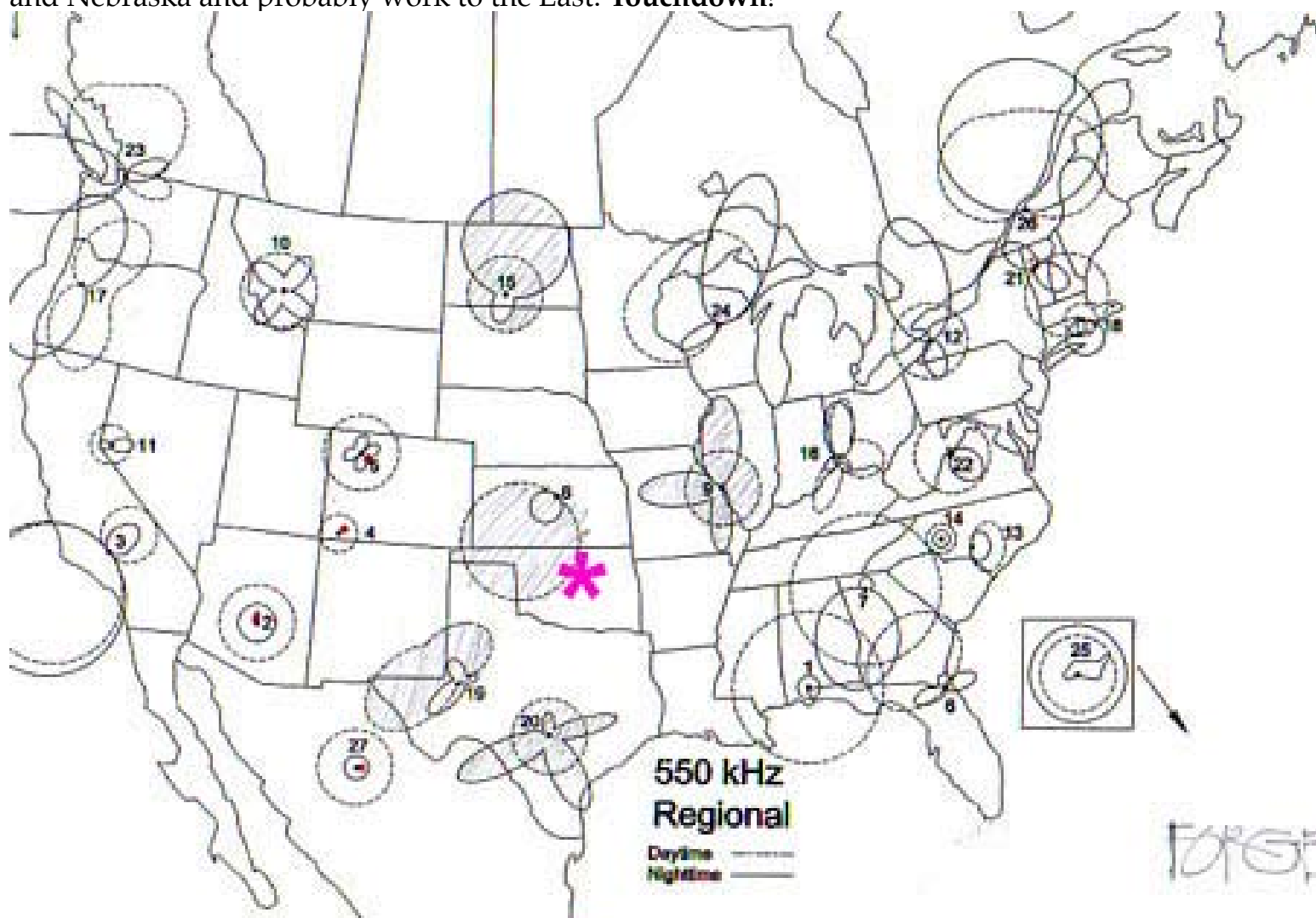
In truth, I feel a little silly writing a formal article on this subject. However, I cannot help myself; I've owned whatever the "current copy" of the *NRC AM Station Pattern Book* (formerly the *Nighttime Pattern Book*) for many years. I always found it handy to have around to look up a particular channel to try and understand the signals that were floating my way or to look at the patterns to see how various patterns meshed (or sometimes did not) to provide the listening public with good quality radio reception.

Those two views of the *Pattern Book* are all that I held until I began to get very serious about domestic AM DXing a couple of years ago. As I began keeping a serious logbook, I sort of "hit the wall" at something a bit less than 400 stations heard. I had heard all of the easy and semi-difficult stuff on practically every channel. To add to the log, I had to start playing tricks with listening at various different times, taking a close look at directional antennas and using more sophisticated methods of DX targeting to focus my efforts. The analytical tool that has become a main stay of my DXing was with me all of the time: the *NRC Pattern Book*! It is so simple and so useful that I am ashamed that I did not begin using it sooner. Here is an example of what I did and how it helped me hear even more DX:



This is the 1290 kHz. map page from the *Pattern Book*. All that I did was shade in the patterns of the

stations that I had heard. How simple can you get? What followed was what was important. When I started doing this, all I had was KKAR, Nebraska and KWFS, Texas, the nighttime dominant on the channel. I was using a Wellbrook array which gives me a 180 degree (almost exactly) view of the horizon as my main antenna. The first thing that I did was to point the array South *at dawn* and attempt to catch KIVY in Texas as it boosted to daytime power about 15 minutes before KWFS did. It took me several weeks of checking, but the FCC database gave me the power change times, so, I finally nailed it. From there, I pointed the array to the West and waited for good northerly conditions to catch KOWB in Laramie, Wyoming in their daytime pattern *just at dusk*. It worked like a charm.... after a couple of weeks of checking. The future? The whole East is open and rich in targets, but I need a narrow cardoid array antenna; OR, I could go outside, URL barefoot and point the antenna bar to null BOTH Texas and Nebraska and probably work to the East. **Touchdown!**

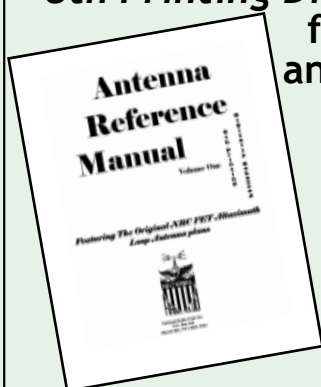


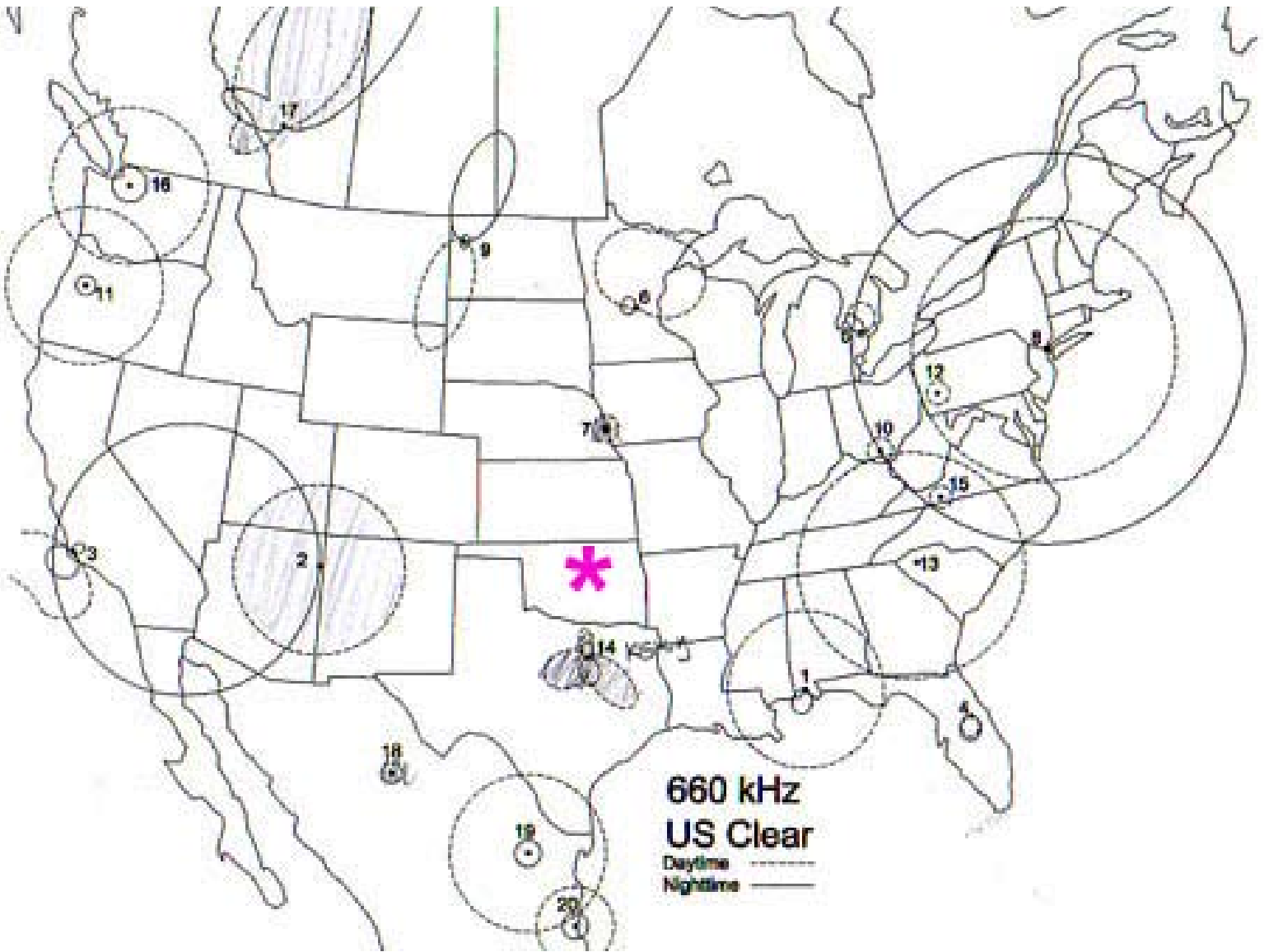
My note to myself in the lower left hand corner of this map states "FORGET!" and that is the message here on 550. It is less evident on the map than on the dial, but the stations in St. Louis, San Antonio and, especially, Salina, KS simply own my 550 dial space. It was a miracle to hear KCRS in Midland, TX. Someday, I may revisit 550 and try both SE and SW for a few more stations. However, in the meantime, there are much greener pastures.

Expiring? Time to renew? Not sure when? Need to call or e-mail someone or join e-DXN or DXAS? Check the back page - it's all there!

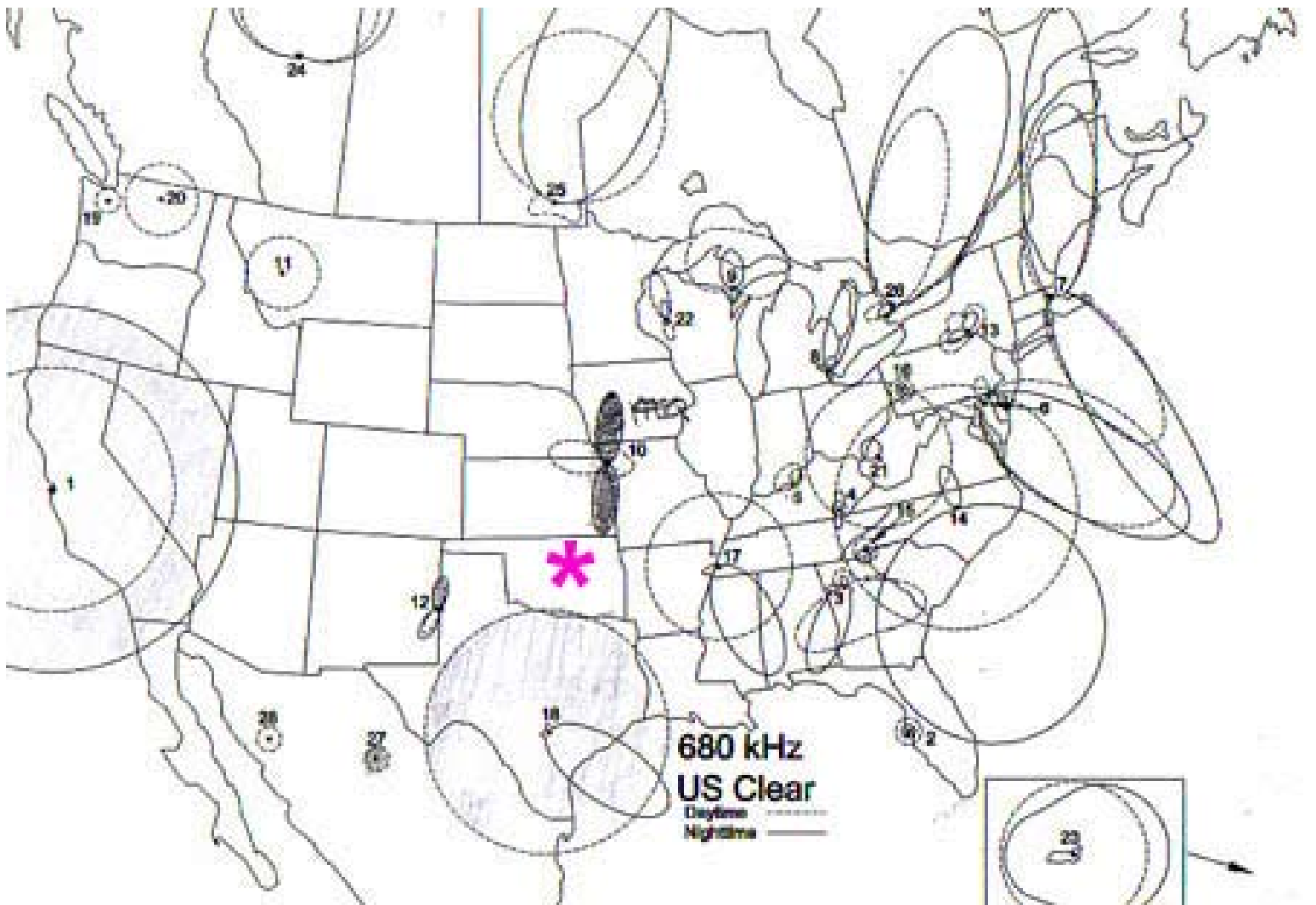
Antenna Reference Manual, Volume 1

8th Printing Digitally Enhanced and Updated This completely-revised book features the plans for the original NRC 4' FET Altazimuth loop antenna. Completely revamped with digitally enhanced drawings and updated material sources, it also contains other articles on the subject of antennas for medium wave DX'ers, most originally published between 1969 and 1974 in *DX News*. It includes articles on air-core and ferrite core loops, antenna tuners for longwire antennas, and antenna couplers. This is the original book which has been available for over 20 years. \$8.95 to NRC members (\$11.95, non-members). 8 1/2" X 11" bound book format. Canadian orders: PayPal or postal M. O. only. Order from NRC Publications - P.O. Box 473251, Aurora CO - 80047-3251. (CO residents, please add 3.5% sales tax.)





Things are somewhat unusual on 660. KTNN in Window Rock, AZ is just not a problem and KCRO in Omaha is very difficult to hear. Beyond that, things are tougher than they appear. CFFR in Calgary ought to be impossible to hear. In fact, when I can get a null on Dallas, Calgary is almost always there! I'd guess that their actual pattern is more omni-directional than shown. The real problem, though, is KSKY in Dallas, 200 miles to the South - it just bombs in. My main goal on 660 is to somehow throw a null on KSKY and LOOK EAST... first for WFAN in New York.



The 680 channel here is an example of “you can’t have too many antennas”, and it exposes the main weakness of the first generation of Wellbrook Phased Arrays. KFEQ in St. Joseph, MO is a real pest here. I’d swear that they are pushing their signal directly at me. I can look straight South, though, and put KFEQ in a null. I’ve heard San Antonio, TX on a number of occasions and the little Mexican station in Chihuahua is not a problem to hear, either. When I look West, there is little beside KNBR in San Francisco to hear. However, with the 180 degree wide front lobe of the first generation Wellbrook, looking either North or East gives me KFEQ, St. Joseph like I was in their parking lot. Clearly, I need to null KFEQ with a Barefoot ULR, giving the Houston station a partial null, too and then LOOK EAST all evening and morning.

Well, that is about the sum of it. I gray-out each station that I’ve heard on each channel and then I start analyzing the channel for missed opportunities. That analysis allows me to select the specific antenna that I will use and the probable best direction to point it. In some cases, that analysis along with the FCC files, even tells me the best times to listen.

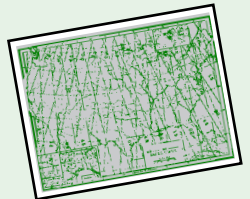
So, even though the most recent Sixth Edition of NRC’s *AM Station Antenna Pattern Book* is dated 2006, it is still an excellent DX tool. Give it a try.... You’ll likely be surprised at how much this low tech tool can offer. It is available on-line at <http://www.nrcdxas.org/> at \$16.95 for NRC members in NAM and \$22.95 for non-members. Outside North America, I believe that the price is \$25.95.

Not sure about renewing?

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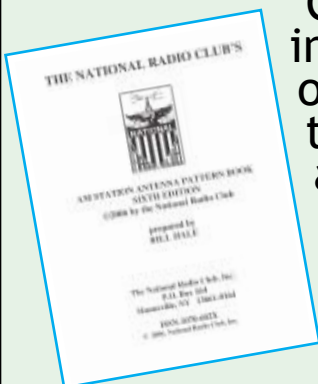


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What a time-saver! A complete list of counties, parishes, and similar political divisions in the U. S. and Canada. Two lists are included: alpha by county, and by state. Compiled by Bill Hale and designed and produced by Wayne and Joan Heinen. \$8.95 for members, \$11.95, non-member; overseas surface mail, add \$4.00 for first copy; \$.64 for each add’l copy/ For airmail, add \$8.00 for each 3 or fraction of 3. Order “CCR” from NRC Publications - P.O. Box 473251, Aurora CO - 80047-3251. (CO residents, please add 3.5% sales tax.)

The NRC AM Station Antenna Pattern Book

This Sixth-Edition Antenna Pattern Book now includes daytime and “Graveyard” frequency patterns for the first time. Stations in Alaska and Hawaii are listed on separate pages at the end of the book. The basic list of U.S. and Canadian stations comes from the 26th Edition of the National Radio Club’s AM Radio Log. Mexican stations in the states bordering the United States plus those stations elsewhere which are easily heard in the U.S. and Canada are also included. All data is up-to-date as of November 1, 2005. Prices: \$16.95 to USA/Canada NRC members, \$22.95 USA non-members, \$25.95, Canada non-members/all overseas orders. Canadian orders: PayPal or postal M. O. only. Order from NRC Publications - P.O. Box 473251, Aurora CO - 80047-3251. (CO residents, please add 3.5% sales tax.)



Network listings for college sports stations

It's basketball and hockey season, as the college football season is winding to a merciful end (if you are a Maryland Terrapin fan like I am). We now start this column with men's college basketball radio networks.

Jacksonville State Gamecocks, Jacksonville AL, Ohio Valley Conference, Mike Parris
91.9 WLJS-AL

James Madison Dukes, Harrisonburg VA, Colonial Athletic Conference

550 WSWA-VA 910 WWWR-VA 1160 WMET-DC 1540 WREJ-VA

Kansas Jayhawks, Lawrence KS, Big 12 Conference

580	WIBW-KS	1490	KBIX-OK	93.5	KWME-KS	98.5	KSAJ-KS
610	KCSP-KS	1540	KLKC-KS	94.7	KSKU-KS	98.7	KFH-KS
1240	KFH-KS	1550	KKLE-KS	94.9	KCKS-KS	99.9	KWKR-KS
1290	KMMM-KS	1550	KYAL-OK	95.5	KAHE-KS	103.9	KOMB-KS
1320	KLWN-KS	1600	KMDO-KS	95.5	KNDY-KS	104.1	KGGF-KS
1340	KSEK-KS			96.3	KZDY-KS	105.5	KKOY-KS
1370	KIOL-KS	92.5	KQMA-KS	97.1	KYAL-OK	105.9	KLZR-KS
1400	KAYS-KS	93.5	KLCK-KS	97.9	KWGB-KS	106.9	KBGL-KS
1400	KVOE-KS						

Kansas State Wildcats, Manhattan KS, Big 12 Conference

690	KGGF-KS	1390	KNCK-KS			100.9	KCLY-KS
730	KLOE-KS	1410	KGSO-KS	92.1	KMZA-KS	101.5	KMKF-KS
810	WHB-KS	1420	KJCK-KS	92.5	KQMA-KS	101.7	KVOF-KS
990	KRSL-KS	1470	KSMM-KS	93.1	KHMY-KS	102.5	KBLS-KS
1070	KFTI-KS	1490	KKAN-KS	93.5	KKDT-KS	102.9	KQTP-KS
1150	KSAL-KS	1490	KTOP-KS	95.3	KINZ-KS	103.9	KNZA-KS
1190	KVSV-KS	1530	KQNK-KS	94.5	KSKL-KS	106.7	KQNK-KS
1340	KSFK-KS	1550	KKLE-KS	98.1	KSKZ-KS	107.9	KZLS-KS
1350	KMAN-KS	1570	KNDY-KS	100.3	KRDQ-KS		

Kent State Golden Flashes, Kent OH, Mid-America Conference

100.1 WNIR-OH



Kentucky Wildcats, Lexington KY, Southeast Conference (2008-2009 list)

630	WLAP-KY	1490	WOMI-KY	95.9	WQHY-KY	103.9	WWEL-KY
680	WCTT-KY	1490	WSIP-KY	95.9	WFTM-KY	103.9	WXKQ-KY
840	WHAS-KY	1520	WLGC-KY	96.3	WIVY-KY	104.1	WCKQ-KY
860	WSON-KY	1530	WCKY-OH	97.1	WSEK-KY	104.3	WEZJ-KY
970	WFSR-KY	1550	WMSK-KY	97.7	WWKY-KY	104.3	WXBC-KY
1060	WFLE-KY	1580	WPKY-KY	98.1	WBUL-KY	104.9	WAVJ-KY
1110	WKDZ-KY			98.7	WHOP-KY	104.9	WKHG-KY
1140	WMMG-KY	92.5	WBKR-KY	98.9	WSIP-KY	104.9	WJRS-KY
1230	WHOP-KY	92.7	WRVC-WV	99.1	WCBL-KY	105.1	WTUK-KY
1240	WFTM-KY	93.1	WDHR-KY	101.1	WSGS-KY	105.1	WRNZ-KY
1240	WSFC-KY	93.5	WAIN-KY	101.7	WKYM-KY	105.5	WKYA-KY
1270	WAIN-KY	93.5	WMMG-KY	102.1	WLLE-KY	105.7	WLGC-KY
1290	WCBL-KY	93.9	WKTG-KY	102.3	WDXC-VA	106.5	WKDZ-KY
1310	WDOC-KY	94.3	WLIE-KY	102.3	WUGO-KY	106.7	WLFX-KY
1340	WCMI-KY	95.1	WFLE-KY	102.7	WEKX-KY	106.7	WNKR-KY
1400	WFTG-KY	95.1	WGGC-KY	103.1	WPKE-KY	107.3	WCTT-KY
1420	WVJS-KY	95.3	WMSK-KY	103.5	WAKY-KY	107.7	WKCA-KY
1440	WEZJ-KY	95.9	WGKY-KY	103.7	WSTV-KY		

We continue with men's basketball networks (with a few women's basketball networks thrown in) for schools beginning with "L" and a few with "M", which we'll have to continue with in the next column. Flagships are in **bold**.

Lafayette Leopards, Easton PA, Patriot League

1470 WSAN-PA

Lehigh Mountain Hawks, Bethlehem PA, Patriot League

1230 WEEX-PA 1320 WTKZ-PA

Lehigh Women's Basketball

91.3 WLVR-PA

Liberty Flames, Lynchburg VA, Big South Conference

88.3 WRVL-VA

Liberty Women's Basketball

90.3 WWMC-VA

Louisiana Tech Bulldogs, Ruston LA, Western Athletic Conference

92.1 KVCL-LA 95.7 KLKL-LA 99.3 KPCH-LA 107.5 KXKZ-LA
92.7 KBYO-LA 97.7 KNBB-LA

Louisville Cardinals, Louisville KY, Big East Conference

790 WKRD-KY 1430 WYMC-KY 95.7 WCKK-KY 104.9 WXLN-KY
840 WHAS-KY 1530 WCKY-OH 101.7 WKRD-KY 105.5 WMKJ-KY
1240 WSFC-KY 1560 WPAD-KY 101.9 WQXQ-KY 105.5 WLVK-KY
1410 WHLN-KY 104.9 WFKY-KY

Louisiana State University, Baton Rouge LA, Southeast Conference

870 WWL-LA 1350 WSMB-LA 92.9 WBOX-LA 101.7 KFNV-LA
950 WHSY-MS 1400 KAOK-LA 93.1 WYAB-MS 101.9 KNOE-LA
970 KSYL-LA 1490 KEUN-LA 93.5 KJAE-LA 102.7 KJNA-LA
1050 KVPI-LA 1490 KJIN-LA 97.7 KNBB-LA 102.7 KWLT-AR
1130 KWKH-LA **98.1 WDGL-LA** 107.3 WFCG-MS
1230 KSLO-LA 92.5 KVPI-LA **100.7 WYPY-LA** 107.5 KCIL-LA
1250 WHNY-MS

Maine Black Bears, Orono ME, Colonial Athletic Conference

910 WAEI-ME 1310 WLOB-ME 94.7 WBCQ-ME 97.1 WAEI-ME
1240 WSYI-ME 1450 WRKD-ME 96.3 WJJB-ME 97.5 WIGY-ME
1280 WFAU-ME 96.7 WTQX-ME

Memphis Tigers, Memphis TN, Conference USA

600 WREC-TN 93.5 WKBQ-TN 99.3 WZLT-TN
1160 WAMB-TN

Memphis Women's Basketball

91.7 WUMR-TN

Miami Hurricanes, Miami FL, Atlantic Coast Conference

560 WQAM-FL

Minnesota Golden Gophers, Minneapolis MN, Big Ten Conference

730 KWOA-MN 1260 KROX-MN 1460 KDMA-MN 94.3 KKin-MN
830 WCCO-MN 1320 KOZY-MN 1480 KAUS-MN 94.3 KULO-MN
870 KPRM-MN 1340 KDLM-MN 1490 KLGR-MN 94.5 WELY-MN
960 KLTF-MN 1340 KROC-MN 1570 KAKK-MN 95.5 KRDS-MN
970 WGEE-MN 1370 KSUM-MN 1580 KDOM-MN 99.9 KAUS-MN
1050 KLOH-MN 1390 KXSS-MN 100.9 KOWZ-MN
1070 KVKK-MN 1400 KMHL-MN 88.5 KBEM-MN 101.5 KRJM-MN
1170 KOWZ-MN 1410 KRWB-MN 92.1 KRUE-MN 102.1 KCAJ-MN
1230 KTRF-MN 1450 KATE-MN 93.3 KBLB-MN 106.5 KRJB-MN
1230 KWNO-MN 1450 KBUN-MN 93.5 KSCR-MN 106.9 KARP-MN
1250 KCUE-MN 1450 KYNT-SD 94.3 KDOM-MN 107.1 KMGK-MN



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Mississippi State Bulldogs, Starkeville MS, Southeast Conference

730	KQPN-TN	1490	WCLD-MS	98.1	WMXI-MS	104.9	WCJU-MS
990	WABO-MS	1580	WAMY-MS	100.5	WBLE-MS	104.9	WAKK-MS
1010	WMOX-MS			100.7	WDMS-MS	105.5	WVBG-MS
1240	WWZQ-MS	92.3	WOHT-MS	100.9	WKBB-MS	105.9	WOAD-MS
1320	WRJW-MS	95.1	WONA-MS	102.1	WRQO-MS	106.9	WRBE-MS
1350	WVCU-MS	96.3	WXWX-MS	102.3	WWSL-MS	107.5	WMJW-MS
1420	WIGG-MS	96.5	WKDJ-MS	104.3	WMJU-MS	107.9	WFCA-MS
1450	WROX-MS	96.9	WTCB-MS	104.7	KWTG-LA		

In this section we continue with schools that begin with "M", and there are a lot of them! A few hockey and women's basketball networks are thrown in, for good measure.

Marshall Thundering Herd, Huntington WV, Conference USA

600	WKYH-KY	1290	WVOW-WV	92.7	WVJO-WV	98.3	WCEF-WV
620	WWNR-WV	1340	WEPM-WV	93.7	WDGG-WV	99.5	WBYG-WV
920	WMMN-WV	1360	WMOV-WV	95.7	WSWW-WV	101.9	WVOW-WV
1050	WAMN-WV			96.5	WXCC-WV	107.3	WKAZ-WV
1230	WVNT-WV	930	WRVC-WV				

Maryland Terrapins, College Park MD, Atlantic Coast Conference

540	WGOP-MD	1240	WCEM-MD			101.1	WQMR-MD
930	WFMD-MD	1300	WJZ-MD	97.9	WBey-MD	105.7	WJZ-MD
960	WTGM-MD	1490	WARK-MD	99.5	WVMD-MD	106.7	WJFK-VA
1050	WMSG-MD	1690	WPTX-MD				

Massachusetts Minutemen, Amherst MA, Colonial Athletic Conference, Josh Maurer

830	WCRN-MA	1060	WIBX-MA	95.9	WATD-MA	100.9	WRNX-MA
-----	---------	------	---------	------	---------	-------	---------

Massachusetts Men's Hockey, John Hennessey, Brock Hines

1060	WBIX-MA
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Merrimac Warriors, North Andover MA, Northeast 10 Conference, Men's Hockey

1400	WLLH-MA?
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Mesa State Mavericks, Grand Junction CO, Rocky Mountain Athletic Conference, Don Teets, Lance Manganello

1340	KXEO-CO
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Miami Red Hawks, Oxford OH, Mid-America Conference

980	WONE-OH	1450	WMOH-OH	101.3	WFMG-IN	105.9	WPFB-OH
-----	---------	------	---------	-------	---------	-------	---------

Miami Men's Hockey

910	WPFB-OH	1490	WKBV-IN			101.3	WFMG-IN
-----	---------	------	---------	--	--	-------	---------

Michigan Wolverines, Ann Arbor MI, Big Ten Conference

950	WWJ-MI (and women's basketball)
-----	---------------------------------

Michigan Hockey

97.1	WXYT-MI
------	---------

Michigan Tech Huskies, Houghton MI, Great Lakes Intercollegiate Athletic Conference

93.5	WKMJ-MI
------	---------

Middle Tennessee Blue Raiders, Murfreesboro TN, Sun Belt Conference

560	WNSR-TN	(translators on 100.5 and 101.9)				103.9	WNTE-KY
1450	WGNS-TN	89.5	WMOT-TN				

**IRCA TIS/HAR List (Fall 2004)**

Mike Hardester has completed the most up-to-date list yet: 56 pages of top-notch information on current TIS/HAR stations in the AM Band. Prices: NRC/IRCA members: \$8.50; overseas, add \$3.00; non-NRC/IRCA members: add \$1.00. State club affiliation when you order. Send U. S. funds payable to Phil Bytheway to: IRCA Bookstore - 9705 Mary NW - Seattle, WA 9817-2334, or via PayPal to fokker_d8@yahoo.com (Phil Bytheway); add \$.50 for PayPal service charges.

Missouri Tigers, Columbia MO, Big 12 Conference

590	KFNS-MO	1310	KZRG-MO	92.7	KASR-MO	100.7	KFNS-MO
800	KREI-MO	1340	KSMO-MO	93.7	KTUF-MO	100.9	KTUI-MO
980	KMBZ-MO	1340	KXEO-MO	93.9	KSPQ-MO	102.1	KJFM-MO
990	KRMO-MO	1400	KFRU-MO	95.1	KTKS-MO	102.3	KBXR-MO
1070	KHMO-MO	1400	KJFF-MO	95.3	KDKD-MO	102.9	KMMO-MO
1120	KMOX-MO	1420	KBTN-MO	95.5	KAAN-MO	102.9	KZRG-MO
1170	KJXX-MO	1430	KKOZ-MO	97.5	KNMO-MO	103.1	KDAA-MO
1200	KYOO-MO	1490	KDRO-MO	97.9	KFBD-MO	103.9	KMCR-MO
1230	KWIX-MO	1520	KRWH-MO	98.1	KOZX-MO	104.1	KZJF-MO
1240	KLIK-MO	1550	KESJ-MO	98.7	KWTO-MO	105.1	KCRV-MO
1240	KNEM-MO			99.1	KYOO-MO	105.3	KYMO-MO
1280	KYRO-MO	92.3	KKOZ-MO	99.9	KFAV-MO	105.9	KULH-MO
1300	KMMO-MO	92.3	KTTN-MO	100.5	KMEM-MO	107.5	KFEB-MO

Monmouth Hawks, West Long Branch NJ, Northeast Conference (football only?)

1160 WOBN-NJ 1310 WBUD-NJ

Montana Grizzlies, Missoula MT, Big Sky Conference

560	KMON-MT	1230	KXLO-MT	1400	KXGN-MT	96.7	KZIN-MT
750	KERR-MT	1240	KLTZ-MT	1490	KBSR-MT	96.9	KQRV-MT
1050	KMTA-MT	1290	KGVO-MT			100.1	KATQ-MT
1070	KATQ-MT	1340	KCAP-MT	92.5	KWMY-MT	101.5	KVWE-MT
1180	KOFI-MT	1340	KPRK-MT	95.1	KTHC-MT	107.5	KENR-MT

Montana State Bobcats, Bozeman MT, Big Sky Conference

910 KBLG-MT 950 KMTX-MT 100.7 KXLB-MT

Morehead State Eagles, Morehead KY, Pioneer League

96.3 WIVY-KY

Murray State Racers, Murray KY, Ohio Valley Conference, Neal Bradley

103.7 WFGE-KY

Murray State Selected soccer and baseball games

1340 WNBS-KY

**IRCA Slogans List (Winter 2008)**

This season's update of the IRCA Slogans List is ready!! This revised Slogans List includes radio slogans from the US, Canada and Mexico (over 4000).

Prices: NRC/IRCA members - \$6.00 (US/Canada/Mexico/sea mail), \$8.00 (rest of the Americas/ Europe airmail), \$8.50 (Australia/Japan/New Zealand airmail). Non-IRCA members - add \$1.00.

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NEW! IRCA Mexican Log, 14th Edition (Winter 2009)

The **IRCA MEXICAN LOG** lists all AM stations in Mexico by frequency, including call letters, state, city, day/night power, slogans, schedule in UTC/GMT, formats, networks and notes. The call letter index gives call, frequency, city and state. The city index (listed by state, then city) includes frequency, call and day/night power. The transmitter site index (listed by state, then city) tabulates the latitude and longitude of transmitter sites. This is an indispensable reference for anyone who hears Mexican radio stations. Size is 8 1/2" x 11".

Prices: NRC/IRCA members - \$9.50 (US/Canada/Mexico/sea mail), \$12.00 (rest of the Americas/Europe airmail), \$12.50 (Australia/Japan/New Zealand airmail).

Non-IRCA members - add \$2.00. Please state club affiliation when ordering.

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NRC Contests

Wayne Heinen amradiolog@nrcdxas.org
4131 Andes Way
Aurora, CO 80013-3831

An annual DX contest which encourages DX'ing and offers prizes

Contest Report through December 5, 2009

Contest #1 Cumulative Points

Contester	Location	Loggings	Points
John Cereghin	Smyrna, DE	388	817
Wayne Heinen	Aurora, CO	268	624
Richard Lauhead	St Paul, MN	227	461
Paul Swearingen	Topeka, KS	225	422
Deane McIntyre	Calgary, AB	180	366
John Kavan	Tampa, FL	123	250
Nancy Johnson	Billings, MT	91	242
Steve Sprague	Coffeyville, KS	97	212
Russell Curry	Eugene, OR	68	147
David B Jones	Nashville, TN	32	68
Bill Patalon III	Fallston, MD	38	50
Dale Park	Honolulu, HI	5	9

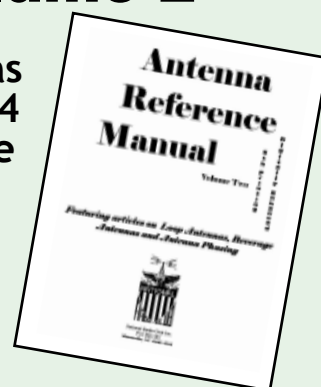
How far have you gone?

Contest#2 Total Miles DX'ed

Total Miles	Loggings	Name	City	State
.....143373	.....270	Wayne Heinen	Aurora	CO
.....125978	.....390	John Cereghin	Smyrna	DE
.....124784	.....183	Deane McIntyre	Calgary	AB
.....97159	.....227	Richard Lauhead	St Paul	MN
.....92732	.....225	Paul Swearingen	Topeka	KS
.....45385	.....91	Nancy Johnson	Billings	MT
.....38638	.....123	John Kavan	Tampa	FL
.....35841	.....68	Russell Curry	Eugene	OR
.....20840	.....97	Steve Sprague	Coffeyville	KS
.....13446	.....38	Bill Patalon III	Fallston	MD
.....10644	.....32	David B Jones	Nashville	TN
.....5375	.....5	Dale Park	Honolulu	HI

Antenna Reference Manual, Volume 2

8th Printing Digitally Enhanced and Updated This book is a compilation of numerous articles on the subject of antennas for medium wave DX'ers, originally published between 1974 and 1981 in *DX News*. Some articles were formerly available as reprints. Includes articles on air-core and ferrite core loops, antenna tuners for longwire and Beverage antennas, and phasing units for use with Beverage antennas and longwires. 8 1/2" X 11" bound book format. Price: \$8.95 to NRC members; \$11.95 to non-members. Canadian orders: PayPal or postal M. O. only. Order from NRC Publications - P.O. Box 473251, Aurora CO - 80047-3251. (CO residents, please add 3.5% sales tax.)



Oak Forest radio collector opens his 'museum' to visitors

Oak Forest collector has accumulated antique radios with enough frequency that he has opened his 'museum' to visitors You can keep your iPod and your satellite radio. MP3s? Jack LaVelle has no use for them.

By Joel Hood, *Chicago Tribune*

Enter the back room of LaVelle's Oak Forest house -- the room built 15 years ago for one purpose -- and step back 100 years to when radio was born and poised to revolutionize home entertainment. Radios by Edison, RCA, Emerson and many other pioneering companies line every wall; immense but beautifully crafted ancestors to the gadgets that fill our homes today.

His collection includes antique and vintage pieces, most of which are working and restored to their original luster. And that dedication to detail has made the LaVelles popular figures in the growing community of radio collectors across the Midwest.

"It's just like collecting old cars or records or anything else; people tend to gravitate to those things that were popular when they were growing up," said Ed Huether, 67, a radio collector who runs a repair shop out of his Forest Park home. "Jack is as passionate as any of us. Every time he sees a radio, he's reaching for his wallet to add another one to his collection."

In an era when the iPod and home computing reign supreme, LaVelle's collection -- one of

the most extensive in Chicagoland -- provides an interesting and important reminder of the origins of audio transmission. While younger visitors might be stunned by the size and crude technology of these early machines, older generations are prodded to remember early childhood nights at home, listening to the latest episodes of "Captain Midnight" or "Terry and the Pirates."

"I've seen old men get tears in their eyes when they enter this room," said Janet LaVelle, Jack's wife. "You can see all these great memories rushing back to them."

Jack LaVelle, 72, knows the feeling. As a boy growing up on Chicago's South Side, he followed popular radio shows such as "Captain Midnight," about an Army pilot who led a secret squadron of fighters during World War II. The long-running show, which originated in Chicago, reached millions of listeners at its peak in the 1940s.

By the time LaVelle was a young man, he was tinkering with radios and early televisions and considering a career in electronics. He began installing roof-top antennas for television sets, and soon became an expert in how to restore and re-



It started with a broken 1928 Kolster radio more than 50 years ago, and now Jack LaVelle's collection numbers around 600. (Tribune photo by David Pierini / June 1, 2009)

build these cutting-edge devices.

While working in Chicago's Mt. Greenwood neighborhood in the mid-1950s, LaVelle stumbled upon a broken 1928 Kolster radio. He offered the owner \$5 and took it home, where he cleaned the dark wood finish and repaired the brass tube sockets inside.

"It started working, just like that," LaVelle said. "The thing about these early radios is that they're all pretty simple when you get right down to it."

After completing his education at a vocational school, LaVelle opened his own repair shop out of his new home in Oak Forest. His interest -- bordering on obsession -- with old radios blossomed. He joined numerous collectors clubs, including the Antique Radio Club of Illinois, where he met with others who shared his passion. He and his wife scraped together what little money they had to buy radios from flea markets, yard sales and

estate sales.

Each purchase filled a gap in the history of the medium, beginning with early 1900 radios from Atwater-Kent and diamond-tipped Edison phonographs, and on to table-top and pocket transistor radios from the 1950s.

His collection has grown so big -- about 600 radios, LaVelle figures -- that he has opened it to the public for free viewings. The Antique Radio Museum, as he calls it, has no Web page (the LaVelles can barely work their home computer) and is not advertised any place that could be easily found. But it attracts a few dozen children and seniors each year, most who stop and marvel at a piece of history come back to life.

"Some people walk in and they don't say a word," LaVelle said. "They just stop and stare, and you can tell it's taking them back in time."

Geomagnetic Summary

Phil Bytheway phil_tekno@yahoo.com
9705 Mary NW
Seattle, WA 98117-2334

High "A" values indicate possible auroral conditions

Geomagnetic Summary June 1 through November 30, 2009

SWF - Space Weather Forecast

maf - major flare

mas - major storm

mis - minor storm

pca - polar cap absorption

SWT - Space Weather today

spe - satellite proton event

ss - severe storm

Tabulated from email status daily.

<u>Date</u>	<u>Flux</u>	<u>A</u>	<u>K</u>	<u>Space Wx</u>	<u>Date</u>	<u>Flux</u>	<u>A</u>	<u>K</u>	<u>Space Wx</u>
6/ 1	73	2	0	no storms	2	67	2	2	no storms
2	72	1	1	no storms	3	67	2	1	no storms
3	73	3	1	no storms	4	71	2	1	no storms
4	71	4	1	no storms	5	72	4	2	no storms
5	70	6	1	no storms	6	70	3	1	no storms
6	69	3	1	no storms	7	71	4	2	no storms
7	69	4	2	no storms	8	71	5	1	no storms
8	69	3	1	no storms	9	69	5	3	no storms
9	69	2	2	no storms	10	68	7	2	no storms
10	69	3	1	no storms	11	68	2	2	no storms
11	69	1	1	no storms	12	68	4	2	no storms
12	69	1	0	no storms	13	67	8	3	no storms
13	68	3	1	no storms	14	67	13	2	no storms
14	68	6	2	no storms	15	67	5	1	no storms
15	67	3	1	no storms	16	67	3	1	no storms
16	68	3	1	no storms	17	66	1	1	no storms
17	68	1	1	no storms	18	67	0	1	no storms
18	68	3	1	no storms	19	68	1	1	no storms
19	67	0	0	no storms	20	68	7	1	no storms
20	67	5	2	no storms	21	68	5	1	no storms
21	67	7	1	no storms	22	68	22	2	moderate
22	68	2	1	no storms	23	68	9	3	no storms
23	68	3	3	no storms	24	68	5	1	no storms
24	67	18	3	minor	25	69	7	2	no storms
25	68	7	3	no storms	26	68	1	1	no storms
26	67	2	2	no storms	27	68	3	1	no storms
27	67	5	2	no storms	28	69	4	1	no storms
28	67	12	3	no storms	29	68	1	1	no storms
29	69	12	1	no storms	30	68	2	1	no storms
6/30	68	8	1	no storms	7/31	69	4	2	no storms

<u>Date</u>	<u>Flux</u>	<u>A</u>	<u>K</u>	<u>Space Wx</u>	<u>Date</u>	<u>Flux</u>	<u>A</u>	<u>K</u>	<u>Space Wx</u>
8/ 1	68	3	1	no storms	10/ 1	72	2	0	no storms
2	68	2	2	no storms	2	72	1	0	no storms
3	67	11	1	no storms	3	72	0	0	no storms
4	66	4	1	no storms	4	71	3	1	no storms
5	66	7	2	no storms	5	70	1	0	no storms
6	67	12	2	no storms	6	69	0	0	no storms
7	68	8	3	no storms	7	69	0	0	no storms
8	67	3	1	no storms	8	69	1	1	no storms
9	67	8	2	no storms	9	68	2	0	no storms
10	67	2	0	no storms	10	70	1	0	no storms
11	67	2	2	no storms	11	70	7	0	no storms
12	67	6	1	no storms	12	70	1	0	no storms
13	67	6	1	no storms	13	70	1	1	no storms
14	68	2	0	no storms	14	71	1	1	no storms
15	68	3	1	no storms	15	70	5	2	no storms
16	69	1	0	no storms	16	70	3	0	no storms
17	68	3	2	no storms	17	70	3	1	no storms
18	67	3	1	no storms	18	70	2	0	no storms
19	67	7	2	no storms	19	71	1	0	no storms
20	67	7	3	no storms	20	71	0	0	no storms
21	66	8	2	no storms	21	71	2	1	no storms
22	67	5	1	no storms	22	72	17	3	no storms
23	67	3	1	no storms	23	73	11	1	no storms
24	68	1	0	no storms	24	76	5	2	no storms
25	67	2	1	no storms	25	76	7	1	no storms
26	67	4	0	no storms	26	81	3	1	no storms
27	68	5	2	no storms	27	82	4	1	no storms
28	68	2	1	no storms	28	80	2	0	no storms
29	68	3	1	no storms	29	77	5	1	no storms
30	67	16	3	moderate	30	75	11	1	no storms
8/31	68	7	1	no storms	10/31	75	1	1	no storms
9/ 1	69	2	2	no storms	11/ 1	72	2	0	no storms
2	68	2	1	no storms	2	71	2	1	no storms
3	69	5	3	no storms	3	72	0	0	no storms
4	68	6	1	no storms	4	71	0	1	no storms
5	69	3	1	no storms	5	71	1	0	no storms
6	69	4	1	no storms	6	71	0	0	no storms
7	69	2	1	no storms	7	71	0	0	no storms
8	69	3	1	no storms	8	71	7	2	no storms
9	69	1	1	no storms	9	72	3	1	no storms
10	69	2	1	no storms	10	73	1	0	no storms
11	69	4	1	no storms	11	72	1	1	no storms
12	69	4	2	no storms	12	73	0	0	no storms
13	69	5	2	no storms	13	74	1	1	no storms
14	69	5	1	no storms	14	75	6	2	no storms
15	69	5	1	no storms	15	75	5	1	no storms
16	69	7	2	no storms	16	76	2	1	no storms
17	69	6	2	no storms	17	x	x	x	x
18	69	4	1	no storms	18	x	x	x	x
19	71	2	1	no storms	19	x	x	x	x
20	71	4	2	no storms	20	76	2	1	no storms
21	72	7	1	no storms	21	76	9	2	no storms
22	75	3	1	no storms	22	76	3	0	no storms
23	76	2	1	no storms	23	76	0	0	no storms
24	75	1	1	no storms	24	75	6	2	no storms
25	72	2	0	no storms	25	74	7	0	no storms
26	72	2	2	no storms	26	75	6	1	no storms
27	72	8	0	no storms	27	74	2	0	no storms
28	73	10	2	no storms	28	73	2	0	no storms
29	72	1	0	no storms	29	72	0	0	no storms
9/30	72	6	1	no storms†	11/30	72	2	0	no storms

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