

# DX News

Serving DXers since 1933



Volume 86, No. 4 • November 12, 2018 • (ISSN 0737-1639)

## Inside this issue . . .

2 ... AM Switch	13 ... Confirmed DXer	17 ... GYDXA Updates
5 ... Domestic DX Digest West	14 ... International DX Digest	18 ... GYDXA Totals
9 ... Geomagnetic Indices	15 ... Space Weather Forecast	20 ... DX Toolbox
10 ... Domestic DX Digest East	16 ... Musings of the Members	23 ... Club Info Page

**From the Publisher:** We have received word that Professor John Arthur Campbell, a longtime NRC member in England, passed away in April 2018. Our condolences to his family and DX friends.

**Help Wanted:** We are still hoping that one of our members will volunteer to help with our "From the Archives" column. The task involves looking through the *DX News* archives (available on the e-DXN.com site) and noting highlights from an issue from 10, 25, 50, and 75 years ago that would be of interest to our current members. The late Ron Schiller had been doing this for the last few years, and I know many enjoyed his selections and commentary from our club history. Please drop a line to me at NRCDXNews@gmail.com if you have any questions about the project.

**Publications:** The 8th Edition of the NRC *Antenna Pattern Book* is now available! Together with the 39th Edition of the NRC *AM Radio Log*, these are your essential tools for DXing North American AM radio stations. Order your copies today!

## Volume 86 DX News Schedule

No	D'dline	Print	No	D'dline	Print
5	Nov. 16	Nov. 26	13	Mar. 15	Mar. 25
6	Nov. 30	Dec. 10	14	Apr. 5	Apr. 15
7	Dec. 14	Dec. 24	15	Apr. 26	May 6
8	Dec. 28	Jan. 7	16	May 17	May 27
9	Jan. 11	Jan. 21	17	June 14	June 24
10	Jan. 25	Feb. 4	18	July 12	July 22
11	Feb. 8	Feb. 18	19	Aug. 9	Aug. 19
12	Feb. 22	Mar. 4	20	Sept. 6	Sept. 16

### Membership Report

"Please renew my NRC membership for *DX News*, also a 39th Edition of the NRC *AM Radio Log* and the NRC *Antenna Pattern Book* 8th Edition. Thanks very much to all the NRC volunteers." – Chuck Kaufman.

**New Members:** Welcome to Thomas Owens, Glen Dale MD.

**Renewing Members:** Thanks for the ongoing support of Ralph Brandi; Kenneth Brookner; Ben Dangerfield; Harold B. Frodge; David Gish; Charles H. Kaufman; Terry Krueger; Kurt Nelson; David Potter; John Varljen; James H. Weber; and David Zientara.

## NRC AM Radio Log 39th Edition Is Now Available

The 39th edition of the *AM Radio Log* is the authoritative source for information on AM radio stations in the United States and Canada. The *Log* contains 302 pages of data and cross references and 12 pages of instructions in 8-1/2" x 11" size, 3-hole punched, U.S. loose leaf format. This publication fits nicely into a 1" three-ring binder. 10,000+ updates since last year's 38th Edition of the *Log*! New for this year is a cross reference by State/ Provinces in frequency order. This list is ideal for targeting needed areas. Additional reference lists include call letters of FM simulcasts with the AM Stations listing, listings of regional groups of stations in the groups section (separate section of the *Log*), a cross reference of those stations that are licensed to use IBOC (In Band On Channel) digital audio, and a comprehensive list of FM translators that are now simulcasting with AM broadcasters.

Order by snail mail by check or money order in US funds to National Radio Club, P.O. Box 473251, Aurora, CO 80047-3251 or order using your Pay Pal account at <http://www.nationalradioclub.org/>

To the United States (Priority Mail) – members \$26.95, non-members \$32.95

To Canada (Global Priority Mail) – members/non-members US\$40.25

Outside US/Canada (Global Priority Mail) – members/non-members US\$51.25



# AM Switch

David Yocis, 9412 Ferry Landing Ct., Alexandria VA 22309, [NRCDXNews@gmail.com](mailto:NRCDXNews@gmail.com)  
 Canadian info – Compiled by Shawn Axelrod and Dan Sys  
 NRC AM Log updates from Wayne Heinen, [amlog@nationalradioclub.org](mailto:amlog@nationalradioclub.org)

## FCC and CRTC Decisions and Applications

### CALL CHANGES

1420 WTCR WV Kenova – Call change to WZWB (Nov. 1).

### CONSTRUCTION PERMITS (CPs) FOR EXISTING STATIONS

CP fully licensed and on the air:

1250 KBTC MS Houston – CP for U1 980/50 is on the air.

Applications to modify existing CPs filed:

590 WJMS MI Ironwood – Has CP to make minor adjustments to pattern while remaining U2 5000/1000; now applies to modify the CP to U1 5000/113, adjusting coordinates to 46-25-28/90-12-33.

1530 WOBX NC Wanchese – Has CP for D1 250 from a new site; now applies to modify the CP to keep the existing site but still changing to D1 250, adjusting coordinates to 35-51-52/75-39-00. The station is operating under STA as in the new proposal.

Applications for CPs filed:

860 KTRB CA San Francisco – Applies for CP with U2 50000/5000, consolidating to day site; to replace existing CP for this change that has expired.  
 890 KYWN ID Meridian – Applies for CP with U1 50000/125, consolidating to day site.  
 910 WABK ME Bangor – Applies for CP with U1 5000/210.  
 1170 WQHC AL Hanceville – Applies for CP with D1 1000 from a new site, to replace existing CP for this change that has expired.  
 1280 WIPC FL Lake Wales – Applies for CP with U1 1000/150, consolidating to night site.

### SPECIAL TEMPORARY AUTHORITY (STA)

STAs granted:

1430 WLTV FL Panama City – Granted STA, U1 1250/1250; lost tower to Hurricane Michael.  
 1470 KVSL AZ Show Low – Granted STA, U1 87/87; transmitter problems.  
 1520 KMPG CA Hollister – Granted STA, D1 3400; is losing tower site and needs to tear down two of three towers immediately.  
 1560 WMRO TN Gallatin – Granted STA, D1 200, 45' LW at 36-23-36/86-28-03.

Application for STA filed:

860 WDMG GA Columbus – Applies for STA, U1 400/400, several technical issues.  
 1350 WWVL LA New Orleans – Applies for STA, U1 5000/1250, can't switch to night pattern.

Application for STA dismissed:

1400 WFDM FL Fort Walton Beach – Application for STA with U1 250/250 during tower work, submitted last April, has been dismissed – presumably tower work is done.

Extensions to previous STAs granted:

610 WTVN OH Columbus – Granted STA extension, U1 5000/1250.  
 660 KGSV CA Oildale – Granted STA extension, U1 2000/1500.  
 710 KXMR ND Bismarck – Granted STA extension, U3 4000/4000 as in CP.  
 910 WLTP OH Marietta – Granted STA extension, U4 5000/9, day site and pattern at night.  
 920 KDHL MN Faribault – Granted STA extension, parameters at variance.  
 930 WKCT KY Bowling Green – Granted STA extension, D1 5000.  
 960 KNEB NE Scottsbluff – Granted STA extension, reduced day power.  
 1160 WOBM NJ Lakewood Township – Granted STA extension, minor parameters at variance.  
 1220 WSRQ FL Sarasota – Granted STA extension, D1 150, vertical wire at 27-19-19/82-24-27.  
 1300 WKQK FL Cocoa Beach – Granted STA extension, U4 5000/250, day pattern at night.



- 1310 KEZM LA Sulphur – Granted STA extension, U1 125/12.5 at 30-14-11/93-20-47.  
 WADB NJ Asbury Park – Granted STA extension, U1 625/250.  
 1360 WHNR FL Cypress Gardens – Granted STA extension, U1 1250/625.  
 1390 WSPO SC Charleston – Granted STA extension, U1 5000/1250.  
 1410 WPOP CT Hartford – Granted STA extension, U1 1250/1250 or parameters at variance.  
 1430 KRGI NE Grand Island – Granted STA extension, U1 5000/250.  
 1520 KKZZ CA Port Hueneme – Granted STA extension, parameters at variance.  
 WTRI MD Brunswick – Granted STA extension, parameters at variance.

Applications to extend existing STAs filed:

- 1110 WOMN LA Franklinton – Applies to extend STA, D1 170, 224' LW at 30-44-13/90-12-07.  
 1160 WVNJ NJ Oakland – Applies to extend STA, minor parameters at variance.  
 WBQN PR Barceloneta-Manati – Applies to extend STA, U1 1250/1250.  
 1170 WQHC AL Hanceville – Applies to extend STA, D1 10, whip at 34-03-26/86-46-33.  
 1230 KTRF MN Thief River Falls – Applies to extend STA, minor parameters at variance.  
 1240 WALO PR Humacao – Applies to extend STA, U1 1000/5000, Dom. Rep. QRM.  
 1320 WDDV FL Venice – Applies to extend STA, U4 5000/250, day pattern at night.  
 1450 WLAY AL Muscle Shoals – Applies to extend STA, U1 60/60, LW at 34-44-13/87-42-15.  
 1480 KPHX AZ Phoenix – Applies to extend STA, D1 90, 100' LW at 33-35-39/112-05-08.  
 1490 WVGB SC Beaufort – Applies to extend STA, reduced power (using U1 500/500).  
 1540 WKXG MS Greenwood – Applies to extend STA, U1 250/1, 135' LW at 33-32-02/90-11-42.  
 1590 WVNA AL Tuscumbia – Applies to extend STA, D1 2000, FM tower at 34-40-27/87-42-28.

#### SILENT STATIONS

Formerly silent stations informing the FCC that they are back on the air:

- 830 WUMY TN Memphis – Silent Sept. 30; back on the air Oct. 2.  
 1230 WLNR NC Kinston – Silent Sept. 12 (hurricane); back on the air with low power Oct. 7.  
 1260 WMDG GA East Point – Silent July 12; back on the air with full power Oct. 19.  
 1340 WAGR NC Lumberton – Silent Sept. 15; back on the air Oct. 5.  
 1540 WJZI IN Decatur – Silent Oct. 26 (2017); back on the air with STA Oct. 20.

Stations informing the FCC that they are silent:

- 620 KWAL ID Wallace – Silent Sept. 1; lack of programming and staff.  
 1170 WFPB MA Orleans – Silent Oct. 18; loss of transmitter site.  
 1340 WTYS FL Marianna – Silent Oct. 10; Hurricane Michael damage.  
 1360 KELE MO Mountain Grove – To go silent Oct. 31 during studio move.  
 1500 WKIZ FL Key West – Silent Oct. 25; “unresolved issues with transmitter site owner.”  
 1540 WKDG AL Sumiton – Silent Aug. 26; not previously placed (back) on silent station list.

#### COORDINATE CORRECTION

- 1560 WSLA LA Slidell – CP to correct coordinates to 30-15-08/89-45-46 is on the air.

## *NRC AM Log Updates*

- 580 WGAC GA Augusta – Networks to Fox/P/Ru/WW1/DR/C2C.  
 600 WBOB FL Jacksonville – Add slogan “Positive Talk Radio.”  
 610 WCEH GA Hawkinsville – Format to SPT (ex-CLR); networks to Gn/ESPN; Group & slogan to Grp= Middle Georgia ESPN (ex-Grp= The Fox 94.7).  
 KOJM MT Havre – Adds // K252FZ-98.3. (FCC)  
 630 WBMQ GA Savannah – Networks to WW1/P/RER.  
 670 KIRN CA Simi Valley – Slogan to “Radio Iran.”  
 680 WHBE KY Newburg – Slogan to “ESPN Louisville.”  
 710 WTPR TN Paris – Format to CLR (ex-OLD).  
 750 WAUG NC New Hope – Format to UC:HipHop (ex-UC:TLK/SPT); slogan to “Hot 97.9,” add // W250AZ-97.9; delete networks.  
 830 WUMY TN Memphis – Format to SS:GOS (ex-CLR); slogan to “Buenas Nuevas.” (GH)  
 850 WKGE PA Johnstown – Slogan to “Great Music, Local Sports,” adds // W267CM-101.3; delete Grp= Great Music, Local Sports.  
 930 KHJ CA Los Angeles – Slogan to “Relevant Radio.”  
 KRKY CO Granby – Slogan to “Colorado’s Ski Country FM.”  
 KMPT MT East Missoula – Adds // K259DD-99.7. (FCC)



960	KALE	WA	Richland	– Format to XMAS (ex-AC); slogan to “Santa 106.1.”
980	WPPF	WI	Park Falls	– Format to AC (ex-NWS/TLK); slogan to “103.1 Jack-FM,” add // W276DJ-103.1; drop networks.
990	WNRV	VA	Narrows-Pearisburg	– Adds // W247DC-97.3. (FCC)
1000	WRTG	NC	Garner	– Slogan & Group to Grp=La Grande 1000.
1040	KCBR	CO	Monument	– Format to CLR/Comedy (ex-HipHop); networks to TDC; Group to Grp=Hits & Giggles 98.5 & 95.7 (ex-Grp= Blazin’ 98.5).
1150	WXKO	GA	Fort Valley	– Group to Grp=Middle Georgia ESPN.
1230	WLNR	NC	Kinston	– Slogan & Grp=La Grande 1000.
1240	WENK	TN	Union City	– Format to CLR (ex-OLD).
1300	WQBN	FL	Temple Terrace	– Slogan to “La Super Q.” (TK)
	WXRL	NY	Lancaster	– Adds // W238DD-95.5. (FCC)
1320	KMAQ	IA	Maquoketa	– Adds // K223DA-92.5. (FCC)
	WBRT	KY	Bardstown	– Format to C&W/Bluegrass (ex-C&W). (PS)
1330	WEBY	FL	Milton	– Adds // W256DL-99.1. (FCC)
1340	KJMU	OK	Sand Springs	– Format to SS:MEX (ex-SS).
	WGRV	TN	Greeneville	– Slogan “Hometown Radio,” add // W258DM-99.5; drop Group.
1350	KRLC	ID	Lewiston	– Adds //K226CT-93.1. (FCC)
1360	WGBN	PA	McKeesport	– Slogan to “Power 1360.”
1400	WBAT	IN	Marion	– Slogan to “Greatest Hits.”
	WYUP	PA	Loretto	– Format to AC (ex-Stunting); slogan to “107.1 Jack-FM.” add // W296ED-107.1; delete Grp= Great Music, Local Sports.
	WGTM	SC	Georgetown	– Format to C&W (ex-NWS/TLK/SPT); slogan to “Coast Country 107.5,” drop networks.
1420	KTOE	MN	Mankato	– Format to TLK/OLD (ex-TLK); networks to A/Mn/Li/DR/C2C. (WH)
1430	WGFS	GA	Covington	– Adds // W288DX-105.5. (FCC)
1450	WSMG	TN	Greeneville	– Format CLR (ex-OLD); slogan “Jewel FM,” add // W238DC-95.5.
1490	WIRB	AL	Level Plains	– Slogan to “Plain Talk 1490.”
	WKRO	IL	Cairo	– Format to AOR (ex-TLK/Farm); slogan to “The Bridge.”
	WESB	PA	Bradford	– Adds // W298CM-107.5. (FCC)
	KLNT	TX	Laredo	– Format to CLR (ex-C&W/Tejano); slogan to “Classic Hits.”
1550	WCGR	NY	Canandaigua	– Format to AC/EZL (ex-CLR); Group to Grp=100.1 & 104.5 The Lake (ex-Grp= 101.7 The Wall).
1580	WIOL	GA	Columbus	– Slogan to “CBS Sports Radio,” networks to CS/Jr.
	WDQN	IL	Du Quoin	– Format to AC (ex-XMAS); adds // W246DU-971. ( <i>Apparently the switch to XMAS was stunting awaiting the new translator. - WH</i> )
1590	WBHN	NC	Bryson City	– Slogan to “Classic Country.”
1600	KRVA	TX	Cockrell Hill	– Slogan to “Radio Saigon Dallas.”



### New Groups

Grp= 100.1 & 104.5 The Lake – WCGR-1550, W261DR-100.1, W283BF-104.5  
Grp= La Grande 1000 – WRTG-1000, WLNR-1230, WSRP-910

### Group Name Changes

Grp= Blazin’ 98.5 becomes Grp= Hits & Giggles 98.5 & 95.7  
Grp= The Fox 94.7 becomes Grp= Middle Georgia ESPN

### Group Changes

Grp= Classic Hits 93.1 Adds W242CW-96.3 Cross City  
Grp= ESPN-Central Texas Adds K222DC-92.3 Waco  
Grp= Light of Life Radio Adds W248DB-97.5 Clarksburg  
Grp= Middle Georgia ESPN adds WXKO-1150 Fort Valley  
Grp= Real Roots Radio Adds W294CQ-106.7 Wilmington  
Grp= WNYG Group Adds W243BF-96.5 Medford  
Grp= Your Local Station Adds W289CR-105.7 Glen Gardner



### Deleted Groups

Grp= 101.7 The Wall      Grp= Great Music, Local Sports      Grp= Hometown Radio WGRV

Thanks to Shawn Axelrod, Bill Hale, FCC Database (FCC), Terry Krueger (TK), WQBN, Paul Snider (PS), and Glenn Hauser (GH).

# Domestic DX Digest – West

Bill Hale, 6124 Roaring Springs Drive, North Richland Hills TX 76180-5552

w\_r\_hale@sbcglobal.net

Loggings of U.S. and Canadian stations by DXers in the Central, Mountain, & Pacific time zones  
All times are Eastern Local Time (ELT)

## PLEASE SUBMIT ALL REPORTS IN THE FORMAT SEEN BELOW

Send either within an email, or as an attachment in plain text or RTF. No Excel, Word or PDF documents, please. Your cooperation is much appreciated. All times are Eastern Local Time (ELT)!! Reports older than 30 days will be excluded at the editor's discretion.

**Deadline for Volume 86 Issue 5: Thursday, November 15.**

**Send your loggings and see your name in print!! Good DX to ALL!**

Before we get to the loggings this issue, I want to respond to four inquiries concerning my note in Issue 2 concerning WBBM-780's move to the WSCR-670 tower, and why WBBM has to decrease their power levels.

One of the inquiries came from **Richard Clark**, who wrote: "I suspect that the mathematical relationship would be something like 'X varies inversely with Y.' Thus if 35 kW equals .7 X 50 kW, this would be due to the WSCR tower being approx 1.43 times as tall as the WBBM tower?"

Not quite. According to FCC data, the current WBBM tower is 680 feet or 207.64 meters (electrical height: 194.1°). WSCR's tower is 742 feet or 226.2 meters (electrical height for 780 kHz: 211.7°).

It's true that WSCR's tower is only about 60 feet taller (NOT 1.7 times taller, height nor electrical degrees), but other factors had to be taken into consideration. As I pointed out to Richard (and the others), that when any current station (whether Class A or D) applies for new facilities, they have to accommodate all current stations +/- 20, or maybe even +/- 30 kHz, just as if they were a new station.

After reading the application data on the FCC web site, I've seen that one of those factors was that if they kept the 50 kW on WSCR's tower, both day and night signals would increase to the point where other stations on co- and adjacent-channels would be affected. So, in order to avoid overlap, the WBBM engineers calculated the 35 kW daytime and 42 kW nighttime would be the maximum allowed so as not to interfere with other stations.

Since WBBM has been on 780 with 50 kW since 1941, they have enjoyed the privilege of having all other stations in that frequency range giving them protection. Now, it's their turn to wriggle a little bit. Some of those stations that had to be considered were 750 in Portage, IN, 770 in St. Louis, 780 in Cookeville, Tennessee and Norfolk, Nebraska plus others on 790 and 800.

Many of those stations are daytimers, or during their night operation have had to protect WBBM all those years. The new WBBM power levels were, no doubt, figured to be the points at which they could 'accommodate' protection to them.

If anyone else cares to join in, let's hear from you.

## REPORTERS

- SMA-MB** **Shawn Axelrod** **Winnipeg, MB** RX: ICOM ICR70 / Drake R8; Antennae: 3-foot un-amplified box loop / Quantum QX Loop v2.0 / 155 Foot U-shaped outdoor wire / 100-foot indoor wire run around the basement walls / MFJ 1026 Phasing unit
- RD-IA** **Rick Dau** DXing on the **Muscatine, Iowa** KiwiSDR, adding to the Davenport, Iowa logbook
- RV-TX** **Robert Vance** **El Paso, TX** WinRadio G33DDC, various indoor and outdoor loop antennas
- JW-CO** **John Wilkins** **Wheat Ridge, Colorado** Drake R-8, 4-foot box loop
- Ed.-AB** **Bill Hale** DXing via SDR at **Lamont, Alberta** [OK, OK . . . I had to try this SDR business (see last issue's column). Boy-oh-boy. DXing from the Canadian Plains is a treasure! My only loggings that appear here are 560, 570 and 600, but my list goes on through the entire band. And all during mid day.]


**SPACE RESERVED FOR YOU.**

## DX LOGGINGS

Beginning with this Issue, and continuing as long as we have sufficient loggings to justify it, reports will be divided into two time groups: 0600-1800 and 1800-0600. This practice was used many years ago when I edited these columns, and proved helpful to readers while scanning for tips and information.

0600-1800 ELT

- 560 KMON MT Great Falls – 10/21 1258 – Good, with end of sports talk show, ‘KMON Great Falls’ ID and into Patriots versus Bears NFL football on Sports USA Network. [Ed.-AB]
- 570 WKBN OH Youngstown – 10/24 0734 – Good, with weather forecast from ‘Storm Track 27 meteorologist Paul Wetzl’, ad for ‘Columbiana Cadillac-Buick-Chevrolet’, then “570 WKBN” ID. (RD-IA)
- 570 CKSW SK Swift Current – 10/21 1318 – Good, with Country/Religious tunes. Male with “We hope you’re enjoying this segment of inspirational music on CKSW”, then repeated between every song. [Ed.-AB]
- 600 CJWW SK Saskatoon – 10/21 1319 – Country tunes; weather at 1325 with temperatures (around 10° C) all across the region, ad for a Chevrolet dealer in Saskatoon, singing “Country 600” and back to C&W. [Ed.-AB]
- 650 KMTI UT Manti – 10/28 0710 – With C&W, ID at 0712: “If you like country like we like country, we know you’ll like it here, Country KMTI”, then more C&W. Continually in and out of the mix with music and IDs, some that used a “Country 650, KMTI” slogan. (RV-TX)
- 660 KTNN AZ Window Rock – 10/23 0134 – Weak-to-fair in WSCR digihash, with C&W song “Start All Over Again” by the Desert Rose Band, then “. . . you’re listening to KTNN” in brief liner before going into Navajo chanting. AZ #1, for State #38. (RD-IA)
- 750 WNDZ IN Portage – 10/25 0800 – Gal with sign-on at 0800:45: “This is Access Radio Chicago, AM 750 WNDZ Portage, Indiana – Chicago,” followed by typical program disclaimers; into Ukrainian program from Ukrainian Independent Radio. Fair/good signal, on top at times. (JW-CO)
- 820 WCPT IL Chicago – 10/24 0805 – Local ad, ID: “This is WCPT 820, Where Facts Matter”); program note for ‘Stephanie Miller Show’ 8-11 AM, then into ‘Bill Press Show’. Fair signal, on peaks, but rough copy, mixing with XEABCA and a somewhat nulled WBAP. A needed call change here; last heard as WCSN. (JW-CO)
- 820 WBKK MN Wilton – 10/31 0830 – Good signals, on top of the frequency, with Catholic religious talk “Morning Glory” program and EWTN mentions. (SMA-MB)
- 850 WQRM MN Duluth – 10/31 0840 – Religious talk programming and preaching, with big signal, totally owning the frequency making KOA a DX catch in the background. (SMA-MB)
- 870 KLSQ NV Whitney – 10/20 0755 – With Univision Deportes promos at 0755, full ID at 0759: “KLSQ, 870 AM, Whitney, Las Vegas . . . Univision Deportes Radio”, then back into Univision programming. (RV-TX)
- 900 KFLP TX Floydada – 10/30 0750 – Faded up with local ads (First National Bank of Floydada) and others. Good ID at 0754: “The Farm Station, All-Ag, All-day, 900, KFLP” into news piece about the National FFA meeting. Weather at 0759 and full ID at TOH into news from TownHall.com. (RV-TX)
- 930 KMPT MT East Missoula – 10/27 0759 – Program notes for KMPT and for sister station KGVO-1290; LID at 0759:50 by man: “Your big voice from the right, this is 930 AM and K259DD 99.7 FM, KMPT East Missoula – The Patriot;” ABC news followed; soon faded but noted Dave Ramsey later at 0806. Signal up-and-down and well on top at times. (JW-CO)
- 930 KSDN SD Aberdeen – 10/26 0805 – Out of ABC News with ID as “News Talk 930 KSDN,” with possible mention of FM. Poor, with QRM. (JW-CO)
- 940 KIXZ TX Amarillo – 10/21 0819 – Very good, with “Paracast” talk program, ads for ‘Unique Individuals’, ‘BurgerFi’, and ‘Amarillohelpwanted.com’. TX #14. (RD-IA)
- 1080 WTIC CT Hartford – 10/22 0708 – Fair. with mention of “Interstate 84” in Hartford traffic check. Ad at 0715 for ‘Daniel Energy’ with phone # 860-342-3378. CT #1, State #37. (RD-IA)
- 1080 WKJK KY Louisville – 10/22 0713 – Good, with Louisville-area traffic check, mentions of Interstates 64 and 265. KY #8. (RD-IA)
- 1210 KHAT WY Laramie – 10/20 0827 – With C&W, regional weather at 0835 followed by station promo for “New Country 96.7”, then back into music, more slogan IDs and local ads for Laramie-area businesses. Became the prevalent station until fade out after its TOH ID. (RV-TX)
- 1220 KLDC CO Denver – 10/21 0820 – With REL program. Full TOH ID at 0900: “You’re listening to KLDC Denver, on 12-20 AM and 95.3 FM . . . a Crawford Broadcasting God & Country Station”, then into program ‘Outlook on Colorado’. (RV-TX)

- 1220 KDDR ND Oakes – 10/20 0753 – Area ads; PSA for North Dakota National Guard; an early legal ID at 0755: “The Tornado is KDDR AM 1220 Oakes . . . ,” with the rest mostly unreadable, although I did hear ‘95.9 FM’ mentioned. Fair/poor, in null of local KLDC. They would be on 327 watts night power at this time. (JW-CO)
- 1230 KOY AZ Phoenix – 10/28 0837 – With Mexican banda music into slogan ID between songs “93.7, El Patron . . . elpatronphoenix.com”. Remained in and out in the jumble. (RV-TX)
- 1240 KIUL KS Garden City – 10/30 0824 – With string of local ads, then a promo for the Sports USA program “. . . on AM 12-40 and 13-10, and the All-New 100.9 . . . on AM 1240 KIUL and 1310 KYUL”, into farm news. Weather at 0828. (RV-TX)
- 1240 KCLV NM Clovis – 10/30 0855 – With local ads and some political ads. ID at 0859 by female “The only home for talk in eastern New Mexico and west Texas; AM 12-40, KLCV, Clovis.”, followed by news from TownHall.com. (RV-TX)
- 1240 KDSK NM Los Ranchos de Albuquerque – 10/30 0900 – ID by man: “You’re tuned to New Mexico’s oldies station, 12-40 AM, KDSK, Los Ranchos de Albuquerque; 92.9 FM, Rio Rancho; and 93.7 KDSK-FM playing your favorite sounds; Souvenir Oldies from the 1950s, 60s, and 70s”, then into music. (RV-TX)
- 1340 KVBR MN Brainerd – 10/28 0824 – Fading up, in a mess, with a local weather report and a clear ‘KVBR’ ID. (SMA-MB)
- 1400 WSAM MI Saginaw – 10/27 0739 – Briefly atop, with liner between Snap’s “The Power” and Chicago’s “Hard To Say I’m Sorry”: “Thanks for taking us along . . . 1400 AM and 104 FM . . . .” Because I could never get a matching webstream to come up, I was hesitant to count this at first, but the format fits sister station. “The Bay 104 FM” WSAG, which was also consistently the first thing that surfaced when doing repeated Google searches of “1400 AM 104 FM”. That’s close enough for me. 1st Michigan graveyarder here. (RD-IA)
- 
- 1410 KNTX TX Bowie – 10/30 0706 – Weather, presented by a gal with a strong Texas twang, followed by the “Christian song of the morning” at 0707, then back to Oldies at 0711 with a song by Chicago. Fair. (JW-CO)
- 1410 WIZM WI La Crosse – 10/29 0728 – Fair signals, on top of two other stations, with local ads and ‘WIZM 1410 and 92.3 FM’ ID. (SMA-MB)
- 1420 KSTN CA Stockton – 10/24 0922 – Ad for local event; “Thanks for listening to . . . . on the new 105-9 The Bull” and into C&W. “Fair minus” here, as the sunrise skip was disappearing. (JW-CO) [Their translators are K222DE 92.3 and K290AG 105.9 – Ed.]
- 1420 KTOE MN Mankato -10/29 0735 – Good signals, with farm news, farm-orientated local ads, and weather report. (SMA-MB)
- 1430 KZQZ MO St. Louis – 10/29 0831 – Buckingham’s song; 60s-style jingle “Music in the morning – 1430 KZQZ,” then more Oldies. Rough, with QRM in null of local KEZW. A needed call change here; last heard as WRTH. (JW-CO)
- 1430 KRGI NE Grand Island – 10/28 0843 – Oldies tune; 0844 “KRGI Grand Island” sung as a jingle, then into Elvis’ “Surrender”. Fair, in KEZW null. Listed as NewsTalk in my year-old NRC AM Log. (JW-CO)
- 1430 KALV OK Alva – 10/19 0658 – In with OLD instrumental tune that I forgot the name of followed by vacuum cleaner ad, then ID by male at 0659: “This is your Cool Gold Oldies station. We are AM stereo 14-30, KALV, Alva”, then into some Steely Dan. (RV-TX)
- 1430 KLO UT Ogden – 10/30 0840 – Noted with talk in progress; local ads with 801 area code. Generally fair with fading, in KEZW’s null. (JW-CO)
- 1430 KCLK WA Asotin – 10/22 0857 – Out of Fox Sports with local ads and program notes; LID at 0859:50: “The LC Valley’s Home of Fox Sports Radio – KCLK AM 1430 The Sports Fan Asotin-Lewiston-Clarkston”, and into the ‘Dan Patrick Show’. Fair, in KEZW null, and completely alone at times with no sign of KLO. New here and a nice surprise for WA #29. (JW-CO)
- 1440 KELG TX Manor – 10/20 0745 – Heard in and out with SS musica romantica. ID at 0803 by man “KELG, Manor-Austin, catorce-cuarenta A-M”, and back into music. (RV-TX)
- 1450 KWHW OK Altus – 10/21 0605 – C&W music at 0605, canned ID by male “KWHW, 93.5 and AM 14-50” heard several times between songs. (RV-TX)
- 1470 KSMM KS Liberal – 10/30 – “Southwest Kansas’ Super Hits” ID at 0612, but not much else identifiable stuff other than the classic hits music. In and out of the jumble. (RV-TX)

- 1470 **KMNQ** MN **Brooklyn Park** – 10/29 0740 – Fair signals, but on top most of the time, with lots of Spanish talk and Mexican-styled music. ‘La Raza’ IDs. Their web site says they broadcast on 1470, 1400 and 95.7 FM. (SMA-MB) [They are // with KMNV-1400 and their translator K239CJ, both St. Paul – Ed.]
- 1480 **KCZZ** KS **Mission** – 10/23 0759 – Good, with mentions of “ESPN Deportes” and “Kansas City” in legal ID. New format? KS #11. (RD-IA)
- 1480 **WHBC** OH **Canton** – 10/23 0740 – Good, with PSA for ‘United Way of Greater Stark County’, then mention of a food drive to help the Stark County Hunger Task Force. Confirmed via webstream. OH #16. (RD-IA)

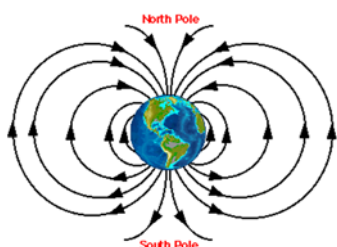
### 1800-0600 ELT

- 550 **KRAI** CO **Craig** – 10/18 2210 – Topping the channel with Denver Broncos Football // KOA-850. CO #7. (RD-IA)
- 590 **WKZO** MI **Kalamazoo** – 10/20 2156 – Fair, under KXSP, with clear “. . . 106.9 FM . . . WKZO” ID during Detroit Red Wings hockey. (RD-IA)
- 600 **WSJS** NC **Winston-Salem** – 10/29 2122 – Fair, under WMT, with mentions of “Here’s the skinny . . . Sports Hub . . .” in liner, then into Fox Sports Radio programming. The “Sports Hub” slogan nailed it. (RD-IA)
- 600 **CKAT** ON **North Bay** – 10/18 2240 – Fair, under WMT, with C&W song “When I Think About Angels” by Jamie O’Neal //webstream. ON #19. (RD-IA)
- 830 **WKTX** OH **Cortland** – 10/29 2210 – Up and down, under WCCO for over an hour, with black GOS music. Finally heard CLs at this time in a brief liner. Was really strong on the Uniontown, PA KiwiSDR, of course. OH #18. (RD-IA)
- 930 **KWOC** MO **Poplar Bluff** – 10/21 2005 – Good ,with ad for business in the 573 area code, then “Talk 930 KWOC” ID, and into an episode of “The Twilight Zone”. MO #35. (RD-IA)
- 940 **CJGX** SK **Yorkton** – 10/28 2219 – Good, with C&W song, then female DJ taking contest call: “Hi, GX94, who’s this? . . .” SK #7. (RD-IA)
- 970 **WFUN** OH **Ashtabula** – 10/20 2031 – Fair, with “ESPN 970” ID, then into Ohio State University football. Have heard this several times since, almost a regular here along with Louisville. OH #15. (RD-IA)
- 970 **WWRK** SC **Florence** – 10/20 2029 – Weak to fair with rock music from the Rolling Stones and Billy Squier, ID as “. . . the greatest collection of classic rock . . . 94.1 . . . and 105.9, The Rock”. Confirmed via webstream. SC #2. (RD-IA)
- 1010 **KSIR** CO **Brush** – 10/28 2303 – Good, with ad for South Platte Auto Center in Sterling, then back to World Series coverage via ESPN Radio. CO #9. (RD-IA)
- 1010 **WPCN** WI **Stevens Point** – 10/28 2322 – Fair on day power, with “True Oldies Channel” heard in liner after the Electric Light Orchestra’s “Evil Woman”. Heard CLs during a Weather Eye forecast at 2329. (RD-IA)
- 1030 **KTWO** WY **Casper** – 10/18 2020 – Fair-to-good, under WBZ, with Denver Broncos football //KOA-850. WY #2. (RD-IA)
- 1130 **KWKH** LA **Shreveport** – 10/20 1940 – Fair, with LSU football, with talk from color commentator Doug Moreau. LA #7. (RD-IA)
- 1240 **KFOR** NE **Lincoln** – 10/26 2259 – ToH ID with mention of “. . . 103.3 FM and 1240 AM . . .” Only 103.3/1240 combo I can find online is this. Probably the same station that I heard at 2234 with a mention of Grand Island High’s 38-24 win in the Nebraska HS football playoffs. (RD-IA) [Yup. 103.3 is KFOR’s translator – Ed.]
- 1270 **KSCB** KS **Liberal** – 10/25 2011 – LOUD, with live broadcast of a Kansas gubernatorial debate, confirmed via webstream. Gone at 2015 power drop, as expected. (RD-IA) [According to the FCC, they should have gone to night power of 25 Watts at 1930 ELT. But, of course, high school football is king! – Ed.]
- 1270 **KFAN** MN **Rochester** – 10/28 2019 – Fair, with Minnesota Vikings football pregame, interview of head coach Mike Zimmer by play-by-play voice Paul Allen // WNAX-570. Still don’t have WXYT logged during WKBF’s absence. (RD-IA)
- 1270 **WCGC** NC **Belmont** – 10/25 2026 – Weak-to-fair, with South Point HS football, confirmed by a lagging webstream (2-1/2 minutes behind!). NC #7. (RD-IA)
- 1280 **WONW** OH **Defiance** – 10/18 1956 – Fair, with promo for “Rush Limbaugh weekdays at noon on Newstalk 1280 WONW”. OH #14. (RD-IA)
- 1300 **KPMI** MN **Bemidji** – 10/29 0805 – Fair signals, over and under KGLO, with classic or older country music and ‘The Legends’ slogan. (SMA-MB)

**KFOR**  
FM 103.3 • 1240 AM



- 1310 KFKA CO Greeley – 10/27 2353 – Fair-to-good under WIBA, with University of Northern Colorado football post game show, menwmob 13tion of next broadcast versus Eastern Washington University. CO #8. (RD-IA)
- 1310 KGLB MN Glencoe – 10/29 0815 – Fading in and out with KNOX, with classic country music and ‘Classic Country’ IDs. (SMA-MB)
- 1320 KELO SD Sioux Falls – 10/28 1843 – Good, with ad for ‘Royal River Casino’ in nearby Flandreau, then mention of “Sioux Falls” in weather forecast. (RD-IA)
- 1340 WTRC IN Elkhart – 10/31 2139 – Briefly atop, with Chicago Bulls BKB with play-by-play by Chuck Swirsky // WSCR-670. Only 1340 shown on this season’s Bulls network. (RD-IA)
- 1340 WXFN IN Muncie – 10/21 2218 – Briefly atop and in the clear, with “. . . at wxfn.com” heard during promo. IN #19. (RD-IA)
- 1360 WMOB AL Mobile – 10/28 1930 – Cranking out the full 9 kW after sundown with Bible-teaching program. Confirmed by webstream. This station has literally been cheating for over 27 years now, at least, and has almost become as reliable an Alabama logging as WVNN-770 or WAPI-1070. (RD-IA)
- 1380 KOTA SD Rapid City – 10/28 1959 – In briefly, with just “. . . KOTA, Rapid City” noted during legal ID. SD #6. (RD-IA)
- 1430 CHKT ON Toronto – 10/23 2202 – Fair, with mention of “Brampton” in Chinese talk by male. ON #20. (RD-IA)
- 1470 WVOL TN Berry Hill – 10/21 1939 – Weak-to-fair, under WMBD, with black GOS music; webstream running about 30 seconds behind. TN #16. (RD-IA)
- 1490 KDMO MO Carthage – 10/24 2021 – Rising up briefly, with “. . . Fabulous 1490 KDMO” ID, then into Starbuck’s 1976 hit “Moonlight Feels Right”. (RD-IA)
- 1510 KFNN AZ Mesa – 10/26 2059 – Mixing with WLAC and KCKK, with promo by Bob Roth for his Friday afternoon talk program “Health Futures”, then legal ID. Confirmed via webstream, and heard during an attempt to bag still-needed KGA. AZ #2. (RD-IA)
- 1510 WPGR PA Monroeville – 10/23 2339 – Fair with singing by women’s chorale, confirmed by the Pennsylvania KiwiSDRs from Uniontown and State College. Heard earlier with Catholic programming. Was tipped off to this by South Bend, Indiana DXer Tom Laskowski. PA #6. (RD-IA)
- 1550 KYAL OK Sapulpa – 10/18 2059 – Fair, on day power with ad for ‘American Heritage Bank’ in Sapulpa, then back into Shawnee versus Sapulpa HS football. (RD-IA)



# Geomagnetic Indices

Geomagnetic Summary October 2018

Via Phil Bytheway – Tabulated from online status daily (K = 0000 UTC).

Date	Flux	A	K	Space Weather				
10/ 1	70	9	2	no storms	16	70	5	1 no storms
2	67	8	0	no storms	17	70	3	1 no storms
3	68	6	3	no storms	18	70	2	0 no storms
4	67	4	1	no storms	19	70	2	1 no storms
5	69	9	2	no storms	20	70	2	0 no storms
6	69	6	0	no storms	21	71	4	1 no storms
7	68	24	5	minor, G1	22	71	6	1 no storms
8	69	21	2	minor, G1	23	72	4	0 no storms
9	70	17	3	no storms	24	70	3	1 no storms
10	70	18	3	minor, G1	25	69	6	2 no storms
11	71	9	1	no storms	26	69	6	2 no storms
12	72	5	1	no storms	27	69	4	0 no storms
13	72	14	4	minor, G1	28	68	4	0 no storms
14	72	6	2	no storms	29	69	3	0 no storms
15	70	10	3	no storms	30	67	4	1 no storms
					10/31	68	4	2 no storms

Sx – Solar Radiation Storm Level / Gx – Geomagnetic Storm Level / Rx – Radio Blackouts Level.

# Domestic DX Digest – East

Mike Brooker, 99 Wychrest Avenue, Toronto ON M6G 3X8 (Canada)  
[patria1818@yahoo.com](mailto:patria1818@yahoo.com)

Loggings of U.S. and Canadian stations by DXers in the Eastern & Atlantic time zones  
 All times are Eastern Local Time (ELT)

## REPORTERS

- BC-NH** **Bruce Conti, Nashua** – Excalibur SDR, variable termination 50 x 75-ft Super/Ewe antennas at 60° northeast and 180° south.
- SC-IN** **Steve Chappell, McCordsville** – K9AY loop antenna, homebuilt receiver, 1939 GE Model G99 with Beam-a-Scope loop
- HJH-PA** **Harry Hayes, Wilkes-Barre** – C Crane Skywave, Kiwi Pocket Loop
- TLK-FL** **Terry Krueger, Clearwater** – NRD-535, IC-R75, roof dipole, active loop
- KK-VA** **Kraig Krist, Manassas** – Winradio G33DDC SDR, Wellbrook ALA-1530S+ Imperium Loop
- RJS-OH** **Bob Schroeder, Cincinnati** – Yaesu FT-991A with random wire and MFJ 956 tuner; CCrane Skywave barefoot or with 2-foot box loop or 5.5 inch FSL.
- PS-ON** **Paul Snider, Thorold** – Elad FDM-S2, Pixel Pro 1B loop, MFJ-1020C tuner
- PS-ON1** **Paul Snider, Sault Ste. Marie** – C Crane Skywave SSB
- MKB-ON** **Mike Brooker, Toronto** – Grundig YB-400PE, Sony SRF-39FP, C Crane CC Skywave, Panasonic RF-2200

Follow me on Twitter! @patria1818 DX-related tweets will be hash-tagged #MWDX.

Friend me on Facebook! [www.facebook.com/keval.mike](http://www.facebook.com/keval.mike)

## UNID

- 980 unID** -- - 10/22 2007 – Classic Country music in multi-station jumble that included Christian Talk, Mark Levin and ESPN. Clearly heard parts of “Amy” by Pure Prairie League, “Home Again” by John Denver, “El Paso” by Marty Robbins. Suspect WHAW in Weston, WV but no ID for nearly an hour and no on-line stream. **(RJS-OH)**
- 1450 unID** -- - 10/28 0718 – Tail-end of The Turtles “Eleanor” as back-announced by male jock, mention of “... FM 102 point...” Pointing NW. WQNT, Charleston, SC which has a 102.1 simulcast? Lost in Radio Mayabeque co-channel. **(TLK-FL)**
- unID** -- - 10/21 0648 – Christian vocals with “I Am Not Alone” by Natalie Grant segued to “People Need the Lord” by Steve Green. “This is W...” by male at 0652, back to gospel vocal. Pointed NE. **(TLK-FL)**

## LOGGINGS

- 550 KFYZ ND Bismarck** – 10/20 0500 – Poor through WDEV; iHeart Radio promo, “AM 550 KFYZ Bismarck” ID to Fox news. **(BC-NH)**
- WSAU WI Wausau** – 10/15 2328 – Various promos with mention of Wausau, ID at 2328 “550 AM, 95.1, 99.9 FM WSAU”, into Brewers post game show. Fair. **(PS-ON1)**
- 710 WDSM WI Superior** – 10/31 0720 – Over usual WOR with Wisconsin Radio Network local news, anti-Gov. Walker paid political announcement. **(MKB-ON)**
- 720 WRZN FL Hernando** – 10/27 2200 – Under WGN; Bible teaching and SRN news. No ID heard, but presumed WRZN as the only SRN affiliate on 720 overnight. Continued to receive Bible programs under WGN through the night. Social media reports indicated that work was being done on the WRZN directional array. **(BC-NH)**
- 790 WSGW MI Saginaw** – 10/31 1816 – Atop WAEB et al with promo for Michigan football: “the Michigan Wolverines play here on 790 WSGW” into local news. **(MKB-ON)**
- 830 WCCO MN Minneapolis** – 10/20 0159 – Under WCRN; “This is WCCO...HD2 Minneapolis-St. Paul.” **(BC-NH)**
- 910 WLAT CT New Britain** – 10/29 1903 – Amid poorly modulated Mexican hot hits and “La Mega” slogan, legal “WLAT New Britain” ID in EE slipped in. **(MKB-ON)**
- WSUI IA Iowa City** – 10/17 2355 – Mentions of Iowa Public Radio, talk by female announcer. Poor, mostly under WFDF. **(PS-ON1)**
- WAVL PA Apollo** – 10/28 0750 – Over graveyard-like mush with local weather, ad for Commercial Bank and Trust of PA, “PA Talk 910 and 98.7” slogan. **(MKB-ON)**



- 920 WOKY WI Milwaukee – 10/18 0000 – Mentions of “The Big 920”, sports talk with mentions of the Brewers. Very poor in station mix. **(PS-ON1)**
- 930 WEOL OH Elyria – 10/19 0000 – PSA for Ohio National Guard, ToH ID “...930 WEOL”, ABC news. Fair to poor in station mix. **(PS-ON1)**
- 950 CFAM MB Altona – 11/2 0730 – Creaming usual WWJ with Manitoba Farm Journal, “good morning, this is CFAM news” into local news. **(MKB-ON)**
- 960 KMA IA Shenandoah – 10/19 0007 – Female announcer with ID “...KMA 99.1”, then lost. Poor briefly. **(PS-ON1)**
- 970 WDAY ND Fargo – 10/16 0000 – Caught part of ToH ID “...WDAY...93.1”, ABC news, Stormtracker weather, various WDAY mentions, ads, Jim Bohannon show. Poor, mostly under WDCX. **(PS-ON1)**
- 990 WNML TN Knoxville – 10/22 1845 – Ads for Toro lawnmower and “the best bag of fescue seed in east Tennessee” at Dickens Turf Landscape and Supply. **(RJS-OH)**
- KWAM TN Memphis – 10/22 1837 – Faded up for clear ID at 1837 and just as quickly back into the mix. **(RJS-OH)**
- 1010 WPCN WI Stevens Point – 10/18 0035 – Oldies music, “True Oldies” slogan at 0037. Poor to very poor in station mix with CFRB. // to Tune in stream. 10 watts night time? Not so sure. **(PS-ON1)**
- 1070 KNX CA Los Angeles – 10/21 0800 – WFNI goes off the air 1.5 seconds at sunrise when switching to 50 kW providing the only chance to log KNX and the timing was right this morning. The local KNX announcer popped thru this window with enough of the program that made it easily verified by their web stream 59 seconds later. New. **(SC-IN)**
- 1080 WNWI IL Oak Lawn – 10/16 0014 – Ethnic music in unknown language, at 0016 announcement in EE concerning contact with the station and mentions of WNWI, more music. Poor to very poor in station mix. **(PS-ON1)**
- WKJK KY Louisville – 10/21 0700 – Under WTIC; promo/ID, “Alexis play Talk Radio 1080,” and Focus public affairs program. **(BC-NH)**
- WWNL PA Pittsburgh – 10/28 0800 – Over nulled WTIC with “you’re listening to radio that changes the way you live, WWNL 1080 Pittsburgh” ToH ID into gospel show. **(MKB-ON)**
- 1090 WCAR MI Livonia – 10/18 0052 – SB Nation Radio, national ads, Gold Standard show. Poor to very poor. Only SB Nation station I know of on 1090. **(PS-ON1)**
- 1110 WUPE MA Pittsfield – 10/31 1801 – Creaming WBT with “this is the Berkshire’s classic hits station” slogan and wupe.com website promo into “Roxanne” by the Police. **(MKB-ON)**
- WMVX NH Salem – 11/2 0700 – Over WBT/KFAB mix with “New Hampshire’s greatest hits station Valley 98.9” slogan into Beatles “Eleanor Rigby”. **(MKB-ON)**
- 1130 WISN WI Milwaukee – 10/16 0022 – Mentions of WISN, ads (AMAC), promo for Mark Levin show “on 1130 WISN”. Fair to poor with WDFN. **(PS-ON1)**
- 1140 WRVA VA Richmond – 10/25 0650 – News, traffic report at 0654, “I’m David... 11-40, WRVA.” Very poor in Musical Nacional and multiple Rebelde co-channel. **(TLK-FL)**
- CHRB AB High River – 10/20 0600 – Over CBI; “AM 1140 is CHRB High River-Golden West, connecting communities.” **(BC-NH)**
- +++ – 10/19 0027 – C&W music, ID at 0028: “We are Southern Alberta’s...AM 1140” into more music. Fair to poor with WRVA. **(PS-ON1)**
- 1190 KQQZ IL Fairview Heights – 10/31 2018 – Classical Country format with David Bellamy, Ray Price, etc. Ad for Schottzie’s Bar & Grill in St. Louis, MO, ad for Golf Cart rental business “in Taylorsville, Champaign, Mount Vernon...” Recorded promo by Alan Jackson with clear ID at 2026. **(RJS-OH)**
- 1260 KSGF MO Springfield – 10/23 2057 – End of Mark Levin Show and clear ID into Fox News Radio, then local and state news. ID at 2013 as “104.1 Springfield’s News Talk FM, KSGF” into the Michael Savage show. **(RJS-OH)**
- 1280 WGBF IN Evansville – 11/2 2050 – In multi-station mix with clear ID at 2051 and back into Mark Levin Show. Ad for Henderson Chevrolet at 2058. **(RJS-OH)**
- 1290 WCHK GA Canton – 10/20 2341 – Spanish language tropical style music in the station mix with WHIO and others. No ID heard, even at ToH, but // to Tune In stream. Very poor, sometimes audible in station mix. **(PS-ON)**



- 1320 WBRT KY **Bardstown** – 10/24 2349 – Ad for Adam’s Bluegrass Festivals (specifically mentioning the Anderson Bluegrass Festival in Anderson, SC), bluegrass music, possible ID at 2252, named program as Into The Bluegrass, ToH ID “...county...Bardstown’s...WBRT” into news with mention of “WBRT news” at 0002, ad, WBRT weather. Fair to very poor with usual CJMR and WKAN for sure. // to Simple Radio stream. Definitely on day power. **(PS-ON)**
- 1330 KNSS KS **Wichita** – 10/25 2253 – Caught ad with 316 area code, farm equipment ad, then lost in the mess. Very poor in station mix. **(PS-ON)**
- WYRD SC **Greenville** – 10/20 2315 – ESPN promos, caught some of an ID “...WYRD, Greenville”, weather by female meteorologist “for ESPN Upstate”. Poor to very poor while trying to ID unknown C&W station (ruled out WESR, KCKM, WTRE, and WRAM). **(PS-ON)**
- 1350 WFNS GA **Blackshear** – 11/1 0643 – Ad for O’Reilly Auto Parts, promo for 103.7 which would be their simulcast W279BC, back to ESPN sports spew. Radio Ciudad del Mar co-channel. Never can pull their puny 500 watts WSFN, Brunswick that should be simulcast, just WNIS and Cuba. **(TLK-FL)**
- 1380 WOTE WI **Clintonville** – 10/16 0053 – Sports talk, “The Franchise 94.9 and 96.5” slogan. Poor in station mix with WBEL. **(PS-ON1)**
- 1390 WLCM MI **Holt** – 10/18 2229 – Classical music, a thank you for listener support, “Victory 1390, WLCM” ID at 2230. Fair to poor in station mix. **(PS-ON1)**
- 1410 WHLN KY **Harlan** – 10/15 2054 – Weak signal with many others with ID as “1410 WHLN” between songs. **(HJH-PA)**
- CJWI QC **Montréal** – 10/23 1905 – Over sports talker with local news in FF, faux “CPAM” call letters (real calls in Canada always have B, F, H, I, J or K as second letter) and “Radio Union” slogan. **(MKB-ON)**
- 1420 WOC IA **Davenport** – 10/18 2245 – Joe Pags show, “1420 WOC” ID at 2251. Fair at times to very poor in station mix. **(PS-ON1)**
- 1430 WYMC KY **Mayfield** – 10/24 2252 – Ad for Morningside, partial ID at 2253 “...93.9...WYMC”, “That’s What Friends Are For” by Dionne Warwick/Elton John/Stevie Wonder etc, “Hit Me With Your Best Shot” by Pat Benatar. Fair briefly to nonexistent when KZQZ took over the frequency. Also heard WXNT and local pest CHKT. **(PS-ON)**
- 1440 WGIG GA **Brunswick** – 10/28 0730 – Boxing match talk, male “Covering the Golden Isles like no other, 14-40 WGIG.” **(TLK-FL)**
- WNPV PA **Lansdale** – 10/15 2000 – Good briefly with ad for The Green Turtle in North Wales. Montgomery County and 98.5 FM mentioned on ID. **(HJH-PA)**
- WZYX TN **Cowan** – 10/31 0707 – Unison men with Star Spangled Banner, female jock into Steve Miller Band “Swingtown” then Fox News election day coverage promo, S&W Equipment ad, male “I’m... You’re listening to Eagle Radio, 14-40 AM, 95-4 and 95-3 FM.” Into Ray Parker, Jr. “Ghostbusters.” This one is coming in very strong once again. **(TLK-FL)**
- 1450 WOCN FL **Miami** – 10/22 0659 – Male accented “WOCN, Miami” and Spanish talk, only in for a few seconds with mostly Radio Mayabeque dominating. **(TLK-FL)**
- WQWK PA **State College** – 10/24 2200 – “Pause for stations to identify themselves” during World Series. ID as “WQWK State College”, briefly above the din. **(HJH-PA)**
- 1490 WRCE NY **Watkins Glen** – 10/23 0642 – Noted ID as “1490 WRCE” then into country tune. **(HJH-PA)**
- 1520 WMLM MI **Saint Louis** – 10/16 2329 – Country music, ID at 2331 “Real Country...WMLM”, more music. Fair to poor under WWKB. **(PS-ON1)**
- 1550 WNZF FL **Bunnell** – 10/19 0650 – In multi-station mix (WITK, WRHC, WSRY, WMRE, WKBA, French talk from presumed CBEF and R. Reloj) with weather forecast then “I’m meteorologist...on WNZF” into “American in the Morning”. **(KK-VA)**
- WRHC FL **Coral Gables** – 10/19 0605 – In multi-station mix with SS programming, bogus ID by male in EE “This is WWFE 6-70 AM Miami”. No, this is actually WRHC. **(KK-VA)**
- WIGN TN **Bristol** – 10/27 2323 – Bluegrass music, WIGN mentions, ad for what sounded like Good Old Boys Seeds (marijuana?) with WIGN 92.1 mention, listener recorded promo for “...WIGN 1550”, more music. Fair to poor on top of everything. Obviously on day power. **(PS-ON)**



- 1570 WILO IN Frankfort – 10/31 2130 – Presumed with various oldies by Steve Winwood, Chicago, Boy Meets Girl, clearly heard a PSA for the National Guard mentioning the Indiana National Guard, might have heard a WILO ID at 2252, but not 100% sure. Very poor in station mix with another oldies station in there. Might have matched Tune In stream, but was way off time wise. (PS-ON)
- WNST MD Towson – 10/25 1906 – On top of heap of other stations with “WNST is leading the way in Baltimore sports” and promo for WNST’s Facebook page. (MKB-ON)
- WUBG MA Methuen – 10/19 0659 – Mixing with WNCA and assorted UNIDs (SS singing, talk, religious talk and C&W songs) with “The bay state’s biggest hits of the 60’s and 70’s. WUBG Methuen” ToH ID into jingle “Big 105.3”. First time heard since WCCM call sign change. (KK-VA)
- +++ – 10/23 2139 – “Downtown” by Petula Clark, “Big 105.3” slogan at 2140, “Lido Shuffle” by Boz Scaggs. Poor to very poor in station mix. (PS-ON)
- 1580 WZKY NC Albemarle – 10/19 0704 – Mixing with WJFK, talk, more talk and singing, male “...if you see news happening email us at news@...wzky.com”. (KK-VA)
- 1590 WCGO IL Evanston – 10/19 0642 – In WKTP and WCSL mix with “...right here on ‘Smart Talk’ 15-90 AM WCGO” station promo. (KK-VA)
- 1600 KGYM IA Cedar Rapids – 10/17 0028 – Sports talk, ESPN mentions, “KGYM” ID at 0030. Poor to very poor in station mix including WAAM and unidentified oldies station. (PS-ON1)
- WKZK SC North Augusta – 11/2 0731 – Bubbled up in the stew with male “I’m,,, your Music Director here at WKZK Radio...” (TLK-FL)
- WKKX WV Wheeling – 10/26 0631 – Mixing with WCPR, WIDU and UNID rock station, promo for “‘Watchdog Morning Show’ 7 to 10 AM on 1600 WKKX, AM 1370 WVLY and watchdognetwork.com” followed by ID as “AM 1600 WKKX Wheeling”. (KK-VA)
- 1690 WPTX MD Lexington Park – 10/29 2217 – Fair reception on what used to be the Amateur/Police band of the G99 (vintage 1939 GE product) with “Fernando” by ABBA. New. (SC-IN)

## Confirmed DXer

Phil Bytheway, 9705 Mary NW, Seattle WA 98117-2334, [phil\\_tekno@yahoo.com](mailto:phil_tekno@yahoo.com)

Report your verifications to the NRC eGroup and they will appear here, or send them directly to me at the above address. Next deadline: **12/13/18 1 PM PLT.** pb

1260 KNBL ID, Idaho Falls. PPC, "Cannonball 101" sticker in William H Traue, CE (JW-CO)

1320 KOFA AZ, Yuma. PPC, p/d letter, "Border Radio" sticker in 12 days.

V/s Dave Riek, G.M. (JW-CO)

John Wilkins, Wheat Ridge CO (JW-CO)



## Unreported Domestic Stations

No stations were reported to DDXD this issue for the first time since at least Volume 67 (1999-2000). The total number of currently licensed stations in the United States and Canada that haven't been reported to DDXD in that timeframe therefore holds at 371. The full list was last printed in issue 85-19. Can you log and report one next issue?

### MEMBERSHIP RENEWALS

Don't forget that your subscription expiration date is on the back cover. Renewals go to NRC Headquarters, P.O. Box 473251, Aurora CO 80047-3251. Rates are on the back page. Order publications at the same time – only one check is necessary.

RENEW YOUR  
MEMBERSHIP



# International DX Digest

Bruce Conti, 46 Ridgefield Drive, Nashua NH 03062-1174

contiba@gmail.com

For loggings of stations outside the U.S. and Canada

All times are Universal Coordinated Time (UTC)

## TRANS-PACIFIC DX

- 693 **JAPAN** JOAB, NHK2, Tokyo OCT 28 1100 – Presumed; not strong enough for audio. Measured 693.000 kHz. 747 JOIB and 774 JOUB also observed. Tim Tromp reported in the NRC Facebook group reception of Japan and South Korea with audio in Michigan. [Conti-NH]
- 972 **SOUTH KOREA** HLCA, KBS, Dangjin OCT 24 1235 – Man and woman chatting in Korean; long stretches of audio heard at times. The het was really wreaking havoc on 970 kHz. This has been the best TP this signal this season, more often than not better than the 774 and 747 Japan stations. [Wilkins-CO] OCT 28 1100 – Measured 972.000 kHz. [Conti-NH]
- 1143 **SOUTH KOREA** R.Free Korea, Goyang OCT 28 1100 – Measured 1143.000 kHz. [Conti-NH]
- 1566 **SOUTH KOREA** HLAZ Jeju NOV 1 1320 – Low-key talk with short religious-sounding music bytes from time to time. Supposedly in Japanese at this time but I couldn't tell – Japanese and Korean sound similar to me unless the signal is strong enough to tell the difference, which was not the case this day. Just happy to get audio once in a while from this one. [Wilkins-CO]

*Transpacific carrier search:* OCT 22 1228 – This time for a change on the R75 with east-west long wire instead of DX-398, so I can't check directions; 531, 585, 594\*, 612, 657(2), 702, 711, 747\*, 756, 774\*, 819(2), 828, 837, 855, 873, 882, 945, 972\*, 1008, 1017, 1035, 1044, 1062, 1098, 1143, 1179, 1197 but none higher. Now it's 1236 UTC as the lower ones are weakening but I still have 891(2), 945(2). LSR today 1245 UTC. OCT 25 1240-1254 – Spanning LSR of 1248, lots of activity into the altazimuth wrist-mounted DX-398 with internal antenna only; 558, 576, 594, 603, 612, 657(2), 693\*, 702(2), 711, 729, 747, 756, 774, 792, 828, 837, 864(2), 873, 882(2), 909, 936, 972 South Korea with some talk audible, 1035, 1044, 1089, 1098, 1134, 1242, 1296, 1323, 1422, 1503, 1548, 1566 kHz. \*Means stronger ones; (2) means at least two carriers beating. [Hauser-OK]

## PAN-AMERICAN DX

- 539.86 **NICARAGUA** R.Corporación, Managua OCT 17 0043 – News/talk format with male announcer. Peaking to fair signal. [Beu-TX]
- 720 **NICARAGUA** R.Católica, Managua OCT 23 0143 – Man in religious talk, peaking to very good signal. [Beu-TX]
- 750 **VENEZUELA** YVKS, RCR, Caracas OCT 19 0233 – News/talk format with male announcers. Good signal with WSB not audible. [Beu-TX]
- 820 **MEXICO** XEABCA Mexicali, BC OCT 25 1255 – 7 minutes after LSR, the lower XE frequencies have already outfaded, but this is still in with romantic music vs WBAP nulled, presumed XEABCA, but fades/loses out to WBAP before any top of the hour ID. [Hauser-OK]



## TRANS-ATLANTIC DX

- 252 **ALGERIA** R.Algerienne, Tipaza OCT 28 0456-0511 – Afro music to 0458:38 French ad with P.O. address; top of the hour pips/tone into French news with remotes and several mentions of "Radio Nationale"; 0510 bumper into French commentary. S8 peaks! [Frodge-MI]
- 531 **ALGERIA** Jil FM, F'kirina Wilaya d'Oum El Bouaghi OCT 28 0458 – Good; choral marching band national anthem, then Jil FM ID and time marker, parallel 549 kHz. [Conti-NH]
- 549 **ALGERIA** Jil FM, Sidi Hamadouche OCT 28 0458 – Good; choral marching band national anthem parallel 531 kHz. [Conti-NH]
- 882 **UNITED KINGDOM** BBC R.Wales, Washford et al. OCT 28 2100 – Good; "The world of music, BBC Radio Wales." [Conti-NH]

- 909 **UNITED KINGDOM** *BBC Radio 5* synchros OCT 21 0500 – Fair; "This is BBC Five Live," and time check into news, "Good morning, it's 6 o'clock on Five Live, this is Sunday Breakfast." [Conti-NH]
- 1044 **SPAIN** *SER San Sebastián//Valladolid* OCT 21 0353 – Talk sounds Spanish: there are two *SER* stations in Spain, but only 10 and 5 kW; presumably the 300 kW Moroccan is still inactive. In fact I am getting two carriers beating, as in MW Offsets about 8 Hz apart: 1043.9951 Valladolid, and 1044.0028 San Sebastián. [Hauser-OK]
- 1089 **UNITED KINGDOM** *TalkSport* synchros OCT 27 2200 – Good; live boxing match coverage, "He's all over the place, he's unleashing, nowhere near Ryder, Ryder's just tied him up now..." [Conti-NH]
- 1152 **ROMANIA** *R.România Actualitati, Cluj* OCT 21 0158 – Fair; choral national anthem. OCT 28 0258 – Good; choral national anthem. Europe shifted one hour to winter time this morning. [Conti-NH]
- 1188 **HUNGARY** *MR4 Marcali//Szolnok* OCT 21 0600 – Poor; signature 10-second tone to the hour. [Conti-NH]
- 1215 **UNITED KINGDOM** *Absolute Radio* synchros OCT 21 0400 – Talk, surely *Absolute Radio*, UK synchros, originally 14 of them, adding up to 560 kW per WRTH 2018. [Hauser-OK] OCT 27 2200 – Fair; "Dreams" by Fleetwood Mac, ending Mark Goodier's Classic Album program into news, "The main stories..." [Conti-NH]
- 1386 **LITHUANIA** *R.Liberty, Viesintos* OCT 20 0500 – Sign-off. [Conti-NH]
- 1633 unID OCT 20 0400 – Steady s4 signal; 400 Hz tone marking the hour. Unable to find any marine radio or utility stations listed for 1633 kHz. Wouldn't expect a Dutch pirate to broadcast a time pip. [Conti-NH]

*Transatlantic carrier search:* OCT 21 0330-0340 – All on the DX-398 with DF roughly northeast (nevermind southwest); 531, 549, 558, 585, 621, 693(2), 702, 837, 846, 855(2), 873, 882(2), 909, 946, 963 despite local 960 splash, 999, 1017, 1026, 1044(2), 1053(2), 1089, 1098(2), 1107, 1134, 1152, 1161, 1215, 1224, 1296+ (nothing known significantly off +plus), 1314, 1341, 1413, 1422, 1458, 1485, 1503, 1521, 1548, 1575 kHz. Then on the adjacent NRD-545 with ALA-330S antenna east-west, I check out some of the better prospects, employing PBT, narrow bandwidth, and manage to pull a little bit of audios on 1044 and 1215 kHz. OCT 26 0023-0030 – R75 via 100-ft east-west long wire; 531, 558(2), 576, 585\*, 621, 648, 693(2), 711, 747, 774, 819, 837, 846(2), 855\*, 864(2), 873, 882\*, 909\*, 963, 981, 1026, 1035, 1044, 1053, 1089\*, 1098, 1107(2), 1152, 1161, 1179, 1215\*, 1224, 1413, 1458, 1503, 1539, 1575(2) kHz. [Hauser-OK]

#### CONTRIBUTORS

Mike Beu KD5DSQ, Austin TX; Drake R8B, terminated Delta antenna (17-ft apex and 28-ft base) northeast, Mini-Flag antenna (7 by 15-ft) southeast.

Bruce Conti WPC1CAT, Nashua NH; WiNRADiO Excalibur, variable termination Super/Ewe antennas 15 x 23-m at 60° northeast and 180° south.

Harold Frodge, Midland MI; Drake R8B, 185-ft random wire.

Glenn Hauser, Enid OK; NRD-545 with ALA-330S or north/south not very long wire, DX-398 or PL-880 with internal antenna only, sometimes IC-R75 with ~100-ft east/west longwire.

John Wilkins, Wheat Ridge CO; Drake R8, 4-foot box loop.

73 and Good DX!

## NOAA Space Weather Outlook

Issued October 29, 2018 – For the period October 29-November 24, 2018  
<http://www.swpc.noaa.gov/products/weekly-highlights-and-27-day-forecast>

Solar activity is expected to be at very low levels for the forecast period.

No proton events are expected at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit is expected to reach high levels on 04-09 Nov and again on 12-16 Nov due to recurrent coronal hole high speed stream (CH HSS) influence.

Geomagnetic field activity is expected to be at unsettled to active levels on 29-31 Oct, 03-07 Nov, and 09-11 Nov with G1 (Minor) geomagnetic storm levels likely on 03 Nov due to recurrent CH HSS effects.

# Musings of the Members

Dave Schmidt, 49 N. Sumner Street, York PA 17404, [NRCMusings@aol.com](mailto:NRCMusings@aol.com)

## Denny Lee Adkins KE8LKH – [dxdenny0948@yahoo.com](mailto:dxdenny0948@yahoo.com)

The EMERGENCY BROADCAST SYSTEM remains among the very best reasons for keeping a hand on AM radio. Things changed in 1945. The destructive power of the atomic bombs dropped on Japan was unprecedented. Now referred to as nuclear proliferation. You don't need an airplane anymore. ICBMs do it all. Which was the gist of the Cuban Missile October 1962. President Kennedy appeared on network TV and revealed intelligence photographs of military installations throughout the island nation. An attack would resemble a string of firecrackers from Florida to Maine into Canada and would be hard to stop. A horrific possibility. This activity was unacceptable. A naval blockade was established. Kennedy demanded that the installations be disassembled and no further shipments be allowed. "The Russia ships are approaching the American naval blockade." Those little test signals escalating into ear-splitting air raid sirens. Make your blood run cold. You just had to be there.

## Glenn Hauser – P.O. Box 1684 – Enid OK 73702 – [wghauser@yahoo.com](mailto:wghauser@yahoo.com)

Greetings. All times and dates strictly UT. Rx: mostly DX-398 with internal antenna only or PL-880; NRD-545 with ALA-330S inside E-W or inside randomwire N-S; Nissan stock caradio as specified; or IC-R75 with E-W longwire.

On Oct. 25 at 1256 UT, I heard a Spanish gospel huxter on 830 kHz about to fade out, next to Mexicali on 820. According to online research, this is WUMY Memphis, now "Buenas Nuevas Memphis" on 830 and 105.5. It's interesting that in the FCC October 5 notice concerning possible changes to the rules protecting 50 kW Class A stations, the FCC notes: "Other stations must reduce power to the point that it is tantamount to no nighttime service at all. An example is station WUMY, Memphis, Tennessee, at 830 kHz, which broadcasts with 8 kilowatts nominal power during the day but only 2 watts at night, because it must protect WCCO, Minneapolis, Minnesota, almost 700 miles away." By the way, this gospel station should not be confused with a secular SS also on 830, WFNO Norco LA, which also really gets out vs. WCCO.

Here's a periodic update on Enid stations as of November 1. "K530AM," the Vance AFB TIS station on 530 kHz remains off the air for months now, although sometimes I think I have a very weak carrier there. On 1390, KCRC continues to put big spurs causing hets on 1330, 1360, 1420, and 1450. The 1360 and 1420 ones have plenty of modulation, messing up legitimate stations there.

On Nov. 1 at 1245 UT, I hear an ID on 840 kHz for "102.9, más música y variedad – en español, el motivador." Must be a U.S. station, as a Mexican would not need to say it is in Spanish! This is KJFA Belén NM, which used to be KARS on 860, first time heard on 840.

All my MW DX reports starting August 2011 are archived in this forum with open access: <http://forums.wtfd.org/showthread.php?6543-MW-DX-from-Enid-OK-by-Glenn-Hauser/page71>

## John R. Wallace, Sr. – 190 Ballantyne Rd., Syracuse NY 13205-2073

I am a long time DX catcher both MW and SW and have been, for some years now, a National Radio Club member. Some number of *DX News* issues ago, one of the contributors mentioned a formula (but didn't get into quite enough detail about it), how one gets the "Best Points" for DX catches at the longest distance against the lowest power. I'd like to know what the formulas are – for QSL purposes?

To get a better perspective of what I'm pursuing, I'm certainly not, from my home location, going to ask for a QSL response from WHEN Syracuse (a 5 kW station) or for that matter from WHAMRochester (a 50 kW station); they can both be heard well, daytime. (That would be a waste of time and postage). On the other hand, I might ask for a QSL from KSL Salt Lake City, WWL New Orleans, or KNX Los Angeles, albeit they're all 50 kW stations, but I have logged them from here. Or some 5 KW stations (now both "silent stations," too bad! I liked them) WMEX Boston and WPTR Albany, both of which I could fairly regularly log. There are also several smaller stations in western New York and southern Ontario that I regularly hear as well as sporadically, PA, NJ, CT and Massachusetts.

In other words, where's a good level to start at in terms of Lowest to Highest Power divided by Nearest to Greatest distance = Points. Part of this relates to what kind of transceiver radio I'd like to purchase. Right now a Yaesu FT 450D is on top of the list. Any and all information that the membership can provide will be most appreciated.



# GRAVEYARD DX UPDATE

Tim Hall, 1244 Crystal Springs Dr., Chula Vista CA 91915-2123

TimHall1@gmail.com

## 1230 kHz

WONN	FL	Lakeland	Shawn Axelrod	Orlando, FL	35
KORT	ID	Grangeville	Tim Hall	US 6/50 at NV/UT Border, UT	486
KOTS	NM	Deming	Rick Dau	Millard, NE	893
WKCE	TN	Harriman	Steve Francis	Alcoa, TN	33

## 1240 kHz

WEUS	FL	Eustis	Shawn Axelrod	Orlando, FL	33
KLTZ	MT	Glasgow	Tim Hall	US 6/50 at NV/UT Border, UT	732
WFTN	NH	Franklin	Russ Edmunds	Blue Bell, PA	296
KDLR	ND	Devils Lake	Tim Hall	US 6/50 at NV/UT Border, UT	981
KXIT	TX	Dalhart	Tim Hall	US 6/50 at NV/UT Border, UT	663
KXLE	WA	Ellensburg	Tim Hall	US 6/50 at NV/UT Border, UT	638

## 1340 kHz

WWFL	FL	Clermont	Shawn Axelrod	Orlando, FL	17
WTRC	IN	Elkhart	George Santulli	Cranford, NJ	605

## 1400 kHz

KEDO	WA	Longview	Tim Hall	US 6/50 at NV/UT Border, UT	666
------	----	----------	----------	-----------------------------	-----

## 1450 kHz

KWES	NM	Ruidoso	Tim Hall	US 6/50 at NV/UT Border, UT	611
WENI	NY	Corning	Russ Edmunds	Blue Bell, PA	164

## 1490 kHz

KNDC	ND	Hettinger	Tim Hall	US 6/50 at NV/UT Border, UT	750
------	----	-----------	----------	-----------------------------	-----

<u>DXer</u>	<u>DX Location</u>	<u>1230</u>	<u>1240</u>	<u>1340</u>	<u>1400</u>	<u>1450</u>	<u>1490</u>	<u>Total</u>
Russ Edmunds	Northern NJ/Southeastern PA	42	50	52	54	54	64	316
Tim Hall	US 6/50 at NV/UT Border, UT	36	30	31	42	31	36	206
Wayne Heinen	Aurora, CO	23	22	11	30	30	31	147
Rick Dau	Iowa City, IA	22	19	22	27	22	25	137
Tim Hall	San Diego (area), CA	24	15	27	27	22	18	133
Rick Dau	South Omaha, NE	21	17	14	17	26	13	108
Wayne Heinen	Colorado Springs, CO	8	5	21	17	4	8	63
Wayne Heinen	Orchard Park, NY	14	10	8	2	8	5	47
Rick Dau	Davenport, IA	1	5	5	6	7	6	30

It was my sad task this month to add the "SK" designation to Ron Schiller's records. I only got to know Ron a few years ago, but we became pretty good friends. He was one of the closest DXers to my Border Inn beverage site, and the only one who had visited that site with me. My wife and I would meet him in St. George on our way to the Border Inn, and we enjoyed looking at each other's old veries (he had an outstanding collection from the 1950s and 1960s). I always looked forward to sharing my new Border Inn catches with Ron, especially the GY stations. Condolences to his family.

Thanks to Rick, Shawn, Steve, Russ, George, and all who provided feedback on the procedural questions I've raised. Feedback on the 60-mile rule was unanimous in favor of dropping it, so please consider it dropped, as evidenced by the records shown above. I went back almost 4 years, but haven't found any old records under 60 miles to restore. As time allows, I'll look farther back.

I've already found 16 new GY catches in my Perseus recordings from this year's Border Inn DXpedition. My initial report will be on its way to DDXD/IDXDX this month. 73 Tim

Visit the NRC on Facebook: <https://www.facebook.com/groups/509246815818550/>

# GRAVEYARD DX ACHIEVEMENTS

Tim Hall, 1244 Crystal Springs Dr., Chula Vista CA 91915-2123

TimHall1@gmail.com

Total Stations Heard  
Updated as of November 1, 2018

<u>DXer</u>	<u>DX Location</u>	<u>1230</u>	<u>1240</u>	<u>1340</u>	<u>1400</u>	<u>1450</u>	<u>1490</u>	<u>Total</u>
Norm Maguire (SK) - East Hartford, CT/ Albuquerque, NM	146	169	174	168	192	157	1006	
Stan Morss (SK) - Boxford, MA		84	114	101	102	108	607	
Charles Reh - Leamington, ON		65	78	91	70	80	470	
Carl Dabelstein - Various Locations		66	76	76	64	81	50	413
Gary Siegel - Toledo, OH		50	64	82	66	69	58	389
Hank Holbrook (SK) - Chevy Chase, MD		31	66	83	54	73	62	369
Barry McLarnon - Ottawa, ON		57	62	57	62	64	65	367
Frank Wheeler (SK) - Erie, PA		58	81	63	62	65	32	361
Neil Wolfish - Various Locations		54	52	51	67	66	69	359
Steve Francis - Alcoa, TN		54	49	44	53	65	74	339
John Wilkins - Various Locations		55	54	49	61	53	59	331
Jeff Falconer - Clinton, ON		53	45	57	60	58	54	327
Russ Edmunds - Northern NJ/Southeastern PA		42	50	52	54	54	64	316
Ron Schiller (SK) - Various Locations, NJ		43	44	57	31	49	66	290
Shawn Axelrod - Various Locations		42	21	48	54	51	46	262
Ernie Wesolowski - Omaha, NE		41	49	46	45	52	19	252
Phil Bytheway - Seattle, WA		37	38	48	42	44	34	243
Joe Kureth (SK) - Uniontown, MD		35	36	40	43	37	43	234
Karl Forth - Chicago, IL		33	35	31	48	51	24	222
Dave Whatmough - Hamilton, ON		33	27	39	31	39	41	210
Tim Hall - US 6/50 at NV/UT Border, UT		36	30	31	42	31	36	206
Don Trelford - Toronto, ON (pre-1960)		39	22	37	34	38	33	203
Andy Rugg (SK) - Montreal, QC		30	31	32	24	25	34	176
Karl Jeter - Suburban Atlanta, GA		20	31	20	29	29	41	170
Tim Noonan - Various Locations		22	19	22	28	38	31	160
Kraig Krist - Various Locations		26	27	26	23	26	22	150
Wayne Heinen - Aurora, CO		23	22	11	30	30	31	147
Ron Musco - Hartford, CT		21	25	21	25	27	24	143
Craig Barnes - Wheat Ridge, CO		21	15	29	25	26	22	138
Rick Dau - Iowa City, IA		22	19	22	27	22	25	137
Tim Hall - San Diego/Chula Vista, CA		24	15	27	27	22	18	133
Dave Fox - Reading, PA		15	24	16	23	24	27	129
Frank Merrill - Various Locations		16	18	17	20	26	26	123
Gary Atkins (SK) - Louisville, KY		21	8	29	21	18	26	123
Dave Schmidt - New Castle, DE		17	24	21	16	12	23	113
Dave Braun - Various Locations		18	24	14	20	14	22	112
Marc DeLorenzo - Hyannis, MA		20	19	13	16	23	20	111
Rick Dau - South Omaha, NE		21	17	14	17	26	13	108
Harry Hayes - Gouldsboro, PA		15	21	17	13	21	19	106
John Malicky - Pittsburgh, PA		7	15	16	14	24	27	103
Forest Osborn - Hooker, OK		14	15	14	21	14	11	89
Nancy Johnson - Aberdeen, WA		16	20	13	11	13	14	87
Bill Hale - WI, IL, ID, FL, TX, NY, CA, NM		15	14	12	11	13	15	80
Joe Kureth (SK) - Southern Pines, NC		13	12	13	13	17	12	80
Mike Hardester - Various Locations		13	10	11	10	13	13	70
Fred Nordquist - Clay, NY		13	15	6	9	15	11	69
Wayne Heinen - Colorado Springs, CO		8	5	21	17	4	8	63
Don Trelford - Scarborough, ON		7	10	8	9	17	9	60
Tim Hall - West Glacier, MT		13	7	6	9	14	10	59
Pete Taylor - Worldwide		12	8	8	19	6	5	58
Tim Hall - Teasdale, UT		10	10	8	10	8	11	57
Tim Hall - Tombstone, AZ		12	10	9	10	7	9	57
Tim Hall - Yellowstone Lake Village, WY		11	9	9	9	9	9	56

							19
Tim Hall - Mammoth Lakes, CA	12	10	9	8	7	9	55
Morris Sorensen (SK) - Winnipeg, MB	4	6	8	10	14	8	50
Wayne Heinen - Orchard Park, NY	14	10	8	2	8	5	47
Russ Edmunds - Syracuse, NY	12	8	7	5	6	8	46
Tim Hall - Jasper, AB	10	7	8	7	8	5	45
David Yocis - South Nyack, NY	1	6	11	5	11	10	44
Tim Hall - Ajo, AZ	9	8	9	6	6	6	44
Ron Schiller (SK) - Couer d'Alene, ID	5	6	13	4	4	11	43
Morris Sorensen (SK) - Scarborough, ON	2	12	3	10	6	9	42
Paul Mount - Teaneck, NJ	5	8	8	8	8	5	42
Denis Picard - Trois-Rivières-Ouest, QC	7	11	6	6	5	6	41
Tim Hall - Benton Hot Springs, CA	6	5	9	9	6	6	41
Tim Hall - Bandon, OR	7	4	6	9	5	9	40
Tim Hall - Monterey/Carmel, CA	10	6	8	5	6	4	39
Don Trelford - Runaway Bay, Jamaica	4	6	6	5	10	7	38
Tim Hall - Bovina, NY	5	8	6	5	7	7	38
Tim Hall - Chester, CA	5	8	6	5	7	7	38
Tim Hall - The Sea Ranch, CA	11	6	6	3	6	6	38
Tim Hall - Crater Lake Rim Village, OR	10	7	4	6	5	5	37
Stephen Ponder - Bossier City, LA	6	5	6	6	7	7	35
Tim Hall - Flagstaff, AZ	10	6	4	6	4	5	35
George Santulli - Cranford, NJ	-	-	33	-	-	-	33
Tim Hall - Fort Davis, TX	3	7	5	2	8	8	33
Tim Hall - Lone Pine, CA	8	7	4	5	4	5	33
Tim Hall - Radium Hot Springs, BC	7	4	7	6	4	5	33
Tim Hall - Chisos Mountain Lodge, TX	5	5	6	3	6	7	32
Tim Hall - Crescent City, CA	4	1	6	9	6	6	32
Tim Hall - Ouray, CO	5	5	5	7	4	7	32
Morris Sorensen (SK) - Leaf Rapids & God's Narrows, MB	5	6	5	7	4	4	31
Neil Kazaross - Barrington, IL	9	6	3	4	4	5	31
Tim Hall - Moab, UT	5	4	5	6	5	6	31
Rick Dau - Davenport, IA	1	5	5	6	7	6	30
Tim Hall - Burney, CA	4	5	4	6	6	5	30
Tim Hall - Houston, TX	1	2	8	5	6	8	30
Tim Hall - Lakeville, PA	6	5	4	4	5	6	30
Tim Hall - Springdale, UT	8	5	5	4	4	4	30
Tim Hall - Yellowstone Grant Village, WY	5	5	5	3	5	7	30
Morris Sorensen (SK) - Port Carling, ON	2	5	5	6	4	6	29
Morris Sorensen (SK) - Milton, ON	5	3	3	7	3	7	28
Russ Edmunds - Jonesport, ME	4	5	1	6	5	5	26
Paul Mount - Nelsonville, OH	4	4	2	3	3	5	21
Paul Swearingen (SK) - Moran, KS	5	3	2	2	2	5	19
Morris Sorensen (SK) - Kemptville, ON	2	4	2	2	5	3	18
David B. Jones (SK) - Springfield, TN	3	5	3	2	2	2	17
John Tudenham - Joplin, MO	7	2	2	4	1	1	17
Morris Sorensen (SK) - Amaranth, MB	3	5	3	1	1	2	15
Pete Taylor - Tacoma, WA	2	1	1	4	3	4	15
Bruce Conti - Nashua, NH	3	0	6	1	3	1	14
Doug Smith - Madison, WI	2	1	3	2	2	0	10
Perry Crabill (SK) - Winchester, VA	2	2	1	1	2	2	10
Neil Kazaross - Grafton, WI	1	0	0	1	1	2	5
Ron Schiller (SK) - St. George, UT	2	0	1	0	0	1	4
Neil Kazaross - Pawtucket, RI	0	1	2	0	0	0	3
Neil Kazaross - Poipu Beach, HI	1	1	0	0	0	0	2
John J. Rieger - L'Anse, MI	0	0	0	0	1	0	1
Loyd Van Horn - Brasstown, NC	0	0	0	0	1	0	1
Neil Kazaross - Narragansett, RI	0	1	0	0	0	0	1
Neil Kazaross - Ogunquit, ME	0	0	1	0	0	0	1
Neil Kazaross - Poway, CA	0	0	0	0	1	0	1
Neil Kazaross - Schenectady, NY	0	0	0	0	0	1	1
Russ Edmunds - Parsippany, NJ	0	0	0	0	0	1	1
Russ Edmunds - Philadelphia, PA	0	0	1	0	0	0	1
Steve Kamp - San Jose, CA	0	0	0	1	0	0	1

# DX Toolbox

Shawn Axelrod, 30 Becontree Bay, Winnipeg R2N 2X9 (Canada) [amandx@mymts.net](mailto:amandx@mymts.net)

Greetings once again from the Heart of the Continent and welcome to the DX Tool Box Column number 109.

## **Bits and Bites from the NRC listserv: An FSL Extravaganza**

From: Gary DeBock, Puyallup WA

Re: FSL Antennas, Truth and Fiction

The development of modern Ferrite Sleeve Loop antennas has been one of the most remarkable antenna breakthroughs of the 21st century, but since none of these have ever been mass produced for commercial sale, a lot of questions and misconceptions about their function and effectiveness persist in the general AM-DX'ing community. This brief message is an attempt to clear up some of the more common misconceptions.

Modern FSL antennas are based upon an experimental article published by the U.K.'s Graham Maynard in February of 2011, describing a cylindrical collection of ferrite rods wrapped by a wire coil, and tuned by a variable capacitor to resonate with (and provide an inductively coupled gain boost for) a nearby portable radio tuned to the same frequency [www.zen22142.zen.co.uk/Media/fsi.htm](http://www.zen22142.zen.co.uk/Media/fsi.htm)

Graham's original article included quite a bit of "unusual" scientific theory (for which he was roundly criticized) and provoked accusations of design plagiarism and exaggerated performance claims. Flying "under the radar," however, three dedicated antenna experimenters in the relatively new Ultralight Radio enthusiast group (Steve Ratzlaff, Kevin Schanilec and yours truly) began extensive, all-out experimentation in the new FSL design to test it out in the "real world" of ocean coast transoceanic DX'ing-- both on Longwave and Medium Wave.

Steve, Kevin and I shared information on which components were the most effective, and which designs seemed to provide the highest gain. For a brief time we all worked toward the goal of maximum gain, purchasing huge lots of 200mm x 10mm ferrite rods from the Ukraine (to the delight of the eBay sellers, who must now be enjoying early retirement). Of course we didn't all agree on the design factors influencing maximum gain, but one thing was becoming very obvious-- this new antenna had a compact gain advantage like none other in radio history.

Given the fact that this new antenna could provide tons of gain from an extremely small "footprint," I knew that this innovative antenna finally provided an ideal chance to test out a fascinating new theory that I've always believed in-- that an ocean cliff's flat shape could enhance transoceanic DX reception far beyond that possible on a nearby flat ocean beach. In early 2011 this idea was laughed off by almost all of the transoceanic DX'ers, who had routinely set up their huge broadband antennas on flat ocean beaches for decades. Nobody had ever tried a serious DX'pedition on a plunging ocean side cliff, since there wasn't enough space at such sites to set up a "serious" broadband antenna-- or so they thought. But they were about to be proven wrong.

An early 8" (20cm) diameter FSL antenna was set up at two plunging Oregon coast cliffs in the summer of 2012-- at Rockwork 4 (near Manzanita), and at Cape Perpetua (near Yachats). Immediately the new FSL antenna began receiving multiple New Zealand stations that had never been heard on the North American west coast, including 531-More FM, 585-Radio Ngati Porou, 765-Radio Kahungunu and 828-Trackside. Perseus-SDR DX'er Chuck Hutton was interested enough to join me for a July 2014 Rockwork 4 DX'pedition, during which the all-time Grayland record for New Zealand reception was completely shattered-- 88 Kiwi stations (compared to 61 at Grayland). Chuck's broadband antenna was a tiny version of the Grayland monsters, but ocean cliff propagation enhancement more than made up the difference.

A side effect of the ocean cliff "Monster FSL" development was, unfortunately, the "expensive and heavy" reputation that currently lingers in the AM-DX'ing community. It was commonly joked that these new antennas could "shut down an airport without really trying," that a body builder would need to deploy them, and that they were far beyond the means of the average DX'er. In late 2016 a new type of compact, lightweight FSL was designed to dispel all of these misconceptions, however-- the "Frequent Flyer" FSL antennas.

Even though the new antennas had proven to be the ultimate compact gain performers, it was a radical design concept to shrink the antenna down to a miniature size for TSA acceptance, while retaining enough gain performance to be a real thriller on exotic ocean beaches. The construction cost would need to be acceptable for the majority of DX'ers, and the design would need to survive a lot of travel abuse. In late 2016 two new "Frequent Flyer" FSL designs were finally built, and throughout 2017 Craig Barnes and I tested them out in thrilling Hawaii DX'peditions, tracking

down all sorts of exotic Pacific island DX. Pete Taylor took one of the models on European and Caribbean cruises, and in April I had the hobby thrill of a lifetime in the Cook Islands, tracking down long range AM-DX stations in India (at over 8,000 miles), Bangladesh, Mongolia, Cambodia and Brazil-- all with a radio and antenna that easily fit within hand carry luggage.

In an effort to make these compact, TSA-friendly FSL antennas available to more DX'ers there were 10 models given out last year, and a full "Heathkit-like" construction article for the 3.5 inch "Baby FSL" model was written, and posted at <http://www.mediafire.com/file/pnfm8909c77zjoy/3.5inch-FF-FSL.doc/file>

More resources and refinements will be devoted to these "Frequent Flyer" FSL antennas this year, with the goal of making these breakthrough models accessible to all interested DX'ers. Whether your preference is to chase long range DX on an exotic ocean beach or simply have thrilling portable DX'ing sessions close to home, this new type of antenna may be your ticket to increased hobby excitement.

From: Craig Barnes, Wheat Ridge CO

Thanks for the great FSLs and the great article. I attended a superb Grayland TP DX session in 2006 after the Seaside, OR IRCA Convention hosted by Pat Martin. I packed copious lengths of wire which were used for BOGs. I anticipated returning to the PNW for subsequent TP DX'ing sessions for some time before it happened. I attempted to set up what I thought was a temporary corner-fed loop friendly VRBO. After I reserved the oceanfront cabin, on a nice cliff overlooking the Pacific, it turned out the neighbors were intolerant of anything obstructing their views. Then the Grayland motel closed, shortly before I planned my return.

I appreciate the efforts of Guy Atkins and Bill Whitaker identifying three wire antenna-friendly locations on the Pacific coast. Guy also provided me with excellent information on a portable tent pole loop which I plan on putting together and testing.

While I was in Lincoln City, I tried an indoor corner-fed loop with an FLG-100. The QRM from the room rendered the attempt futile. The issue I am faced with is the power source for the FLG-100. I don't fancy the thought of explaining Gel Cells to TSA. I fear I would wind up on the 6 O'clock news should I attempt air travel with those. Driving out to the Pacific Coast is a long two day trip, each way.

I can attest to the effectiveness and portability of the TSA-Friendly FSLs. My first taste of FSL-enhanced travelling DX'ing was at Kalaloch, WA then at Rockaway Beach, OR. The FSL I used at the time was a smaller 3.5" unit which made the difference of decent DX vs. extremely limited DX. The FSL was used in conjunction with a stock Tecsun PL-310. Gary then generously provided a 5" Bar TSA-Friendly FSL which I took to Kalaloch, then to Kauai and the Big Island, Hawaii. TP DX at Kalaloch was decent. TP DX at Princeville, Kauai was a jaw-dropping experience for me. Using an azimuthally map centered on Princeville, I suspected that Princeville might be a decent northern Asian TP DX'ing location. Asian DX there wildly surpassed my expectations. Having read the DU TP DX reports from other TP DX'ers I figured the west side of the Big Island might also be decent for DU TP DX.

Gary's TSA-Friendly FSLs fill a major need in that they are transportable via air and require no additional power source. Gary went above and beyond again providing me with a Supercharged Tecsun PL-380 which, when used in conjunction with a TSA-Friendly FSL makes for an extremely potent DX'ing combo. On both of my Hawaii trips, the FSLs were easily positioned on an outdoor picnic table near the water's edge. I use Google maps to try to identify vacation rentals equipped with strategically placed outdoor picnic tables as I do not travel with the excellent FSL stands Gary constructed for Rockworks DX'peditions. Speaking of Rockworks, I brought my 5" Bar FSL to Rockworks this past August. Despite my efforts to carefully pack the unit, it began to demonstrate some effects from the mileage it had traversed resulting in degraded low band performance. Gary came to the rescue with a spare 5" Rod TSA-Friendly FSL which worked very nicely at Rockworks. I highly enjoyed hearing More FM on 531, as well as Chinese Radio on 936, among many other DUs.

Using the Supercharged Tecsun PL-380 in conjunction with the 5" TSA-Friendly FSL has resulted in getting much more from long distance DX'peditioning. At Rockworks Chuck Hutton asked me if I got my money's worth from the trip. Thanks to the Supercharged Tecsun PL-380 and the 5" Rod TSA-Friendly FSL my answer was a resounding YES!! I have already reserved my room near Rockworks for the first week in August next year.

Many Thanks Gary for Your Hobby Enhancing Efforts!

From: Gary DeBock, Puyallup WA

Thanks, Craig.

You deserve a lot of credit for your own Kalaloch, Rockwork and Hawaii DX'ing success with the "Frequent Flyer" FSL's, especially your breakthrough Asian TP-DX results in Princeville, Kauai in

April of last year. Guess who is going to the same island next month, in an attempt to share in the bounty?

I think that we've only scratched the surface in enjoying the new world of exotic ocean beach DX'ing opened up by the "Frequent Flyer" FSL's, especially in the forward Pacific areas like Hawaii, Tahiti, the Cook Islands and other South Pacific venues. When John Bryant went to Easter Island in 2007, he remarked that it was "more fun than I've ever had with my clothes on." I wouldn't dare use such a colorful description, but the April trip to the Cook Islands definitely was more fun than I've ever had in the radio hobby!

From: Gary DeBock, Pullayup WA

Re: FSL Antennas Take Off

The mission of the compact, TSA-friendly "Frequent Flyer" FSL antennas is (to paraphrase Captain Kirk) to "seek out exotic new DX, and new propagation... to boldly go where no gain antenna has gone before." With this compact antenna's ability to go practically anywhere and provide serious inductive coupling gain for portable radios, isolated ocean beaches worldwide have suddenly come into play for serious long range DX'ing.

Just like Captain Kirk and his crew put their skills to the test in strange new worlds, a "Frequent Flyer" DX'er puts his skills to the test on strange ocean beaches, and isolated tropical islands. Weather can be extreme, and the DX'er needs to be ready to face the challenge head on. Instead of Klingons there are RFI issues to work around, and in instead of Romulans there are prohibitions on external antennas. Internet access costs can easily exceed the yearly budget of a Star Trek captain. A strong sense of creativity and adaptability is a must, as well as a determination to carry out the mission regardless of any obstacles. But the rewards are as great as the challenges.

Most DX'ers are aware that a salt water beach can enhance transoceanic propagation, but few DX'ers have had the chance to chase transoceanic DX on an isolated tropical island, surrounded by salt water on all four sides. John Bryant had the chance to do so at Easter Island in 2007, and I had the unforgettable experience of doing so on Aitutaki Island (in the Cook group) in April. Ocean-enhanced propagation at such sites seems to be in a higher league than what we enjoy here on North American beaches. John Bryant remarked (in his unforgettable way) that DX'ing on Easter Island was "the most fun that I've ever had with my clothes on." DX'ing on Aitutaki Island was certainly in the same league, although I wouldn't want to attempt any description similar to John's. After receiving long range AM-DX from India, Bangladesh, Cambodia, Mongolia and Brazil with a compact FSL antenna, though, I can definitely say that it was the most fun that I've ever had in the radio hobby!

If you plan a long range vacation (or many) and think that you are up to the challenge of "Frequent Flyer" DX'ing on exotic ocean beaches, the Federation would like to talk with you. New ferrite bar and ferrite rod FSL models are available for donation to those who are willing to put their DX'ing skills (and innovation) to the ultimate test. So consider following in the footsteps of Captain Kirk, and take this opportunity to put your hobby excitement into warp drive.

73 for this time Shawn

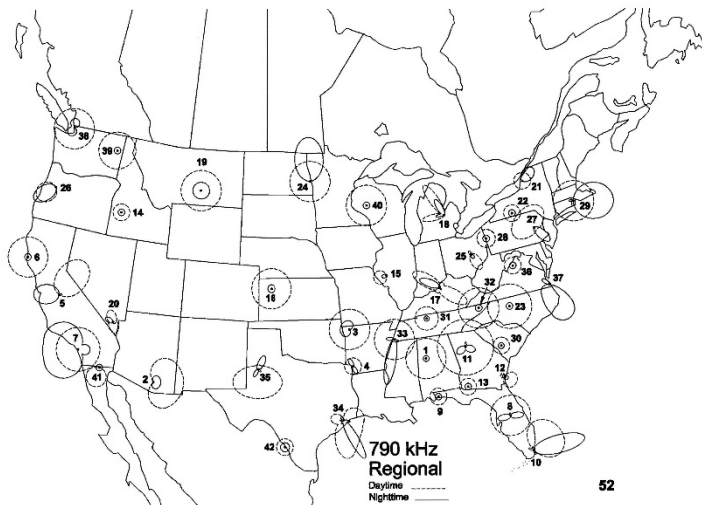
**Remember On A Clear Day You Can Hear Forever**

## ***NRC Antenna Pattern Book 8th Edition Is Now Available***

The 8th Edition of the *NRC AM Station Antenna Pattern Book* is now available. This all-new edition was prepared by Bill Hale and accompanies the 2018 (39th Edition) of the National Radio Club's *AM Radio Log*. The book comes shrink wrapped in 8½ by 11 three hole punch format for placement in your own three ring binder. The book has maps covering 530 through 1700 kHz showing day and night patterns for U.S., Canadian, and selected Mexican and Caribbean stations.

The book is available from the National Radio Club at PO Box 473251, Aurora CO 80047-3251 and Priority Mail to addresses in the United States for \$26.95 for members and \$32.95 for nonmembers. Canadian orders are US\$40.25 and all other countries are US\$51.25 both shipped Global Priority Mail.

The Pattern book may also be ordered using pay pal from our website <http://www.nrcdxas.org> at slightly higher prices.



# The National Radio Club

Founded in September 1933, the National Radio Club is a non-profit organization devoted to the medium wave DX hobby. It is operated solely by uncompensated volunteers. Subscription costs cover printing, postage, and operational costs and are subject to change without prior notice. The opinions expressed in this magazine are those of the individual writer and do not necessarily reflect those of the Publisher or the Board of Directors of the National Radio Club, Inc. Any reproduction of material contained in DX News/e-DXN without permission of the National Radio Club or the author is prohibited. All published material in DX News/e-DXN may be reprinted by the National Radio Club at a later date. DX News/e-DXN published material reprinted in other publications should include an attribution naming the author and DX News/e-DXN as the original source. Construction projects described herein may be hazardous and are to be undertaken at the assembler's risk; the NRC, its officers, and author(s) will not be responsible for any injuries or losses arising during these projects. Tool usage and electricity can be dangerous.

**NRC Board of Directors:** Shawn Axelrod <amandx@mymts.net> – 30 Becontree Bay, Winnipeg MB R2N 2X9 Canada; Bill Hale <w\_r\_hale@sbcglobal.net> – 6124 Roaring Springs Drive, North Richland Hills, TX 76180-5552; Wayne Heinen, Chairman <amlog@nationalradioclub.org> – 4131 S. Andes Way, Aurora, CO 80013-3831; Dave Schmidt <NRCMusings@aol.com> – 49 N. Sumner St., York PA 17404; Dick Truax, Treasurer <K9RT@aol.com> – P. O. Box 39451, Louisville, KY 40233-9451.

**DX News** – David Yocis, Publisher/Editor <NRCDXNews@gmail.com> – 9412 Ferry Landing Court, Alexandria, VA 22309; 202-415-3011 [leave voice mail]. (Send only material for publication in *DX News*.)

**Subscriptions and Renewals:** NRC members may choose to receive our print publication (*DX News*), e-DXN (including online access to the .pdf version of *DX News*), or both.

For *DX News*: Yearly subscription (20 issues, biweekly in DX season): To a U.S. Address: US\$45.00; to a Canadian Address: US\$55.00; to all other countries: US\$70.00.

For e-DXN: Annual registration: \$5.00 for subscribers to DXN; \$15.00 for an e-DXN-only membership. Access the e-DXN web site <www.e-dxn.com> and follow the links.

## Mailing Address for All Subscriptions, Renewals, and Publications Orders:

Please send all of the following to NRC Headquarters in Aurora:

- New subscriptions and renewals for DX News and e-DXN.com.
- Subscription or delivery problems for DX News.
- Changes of address for DX News.
- All NRC Publications orders.

National Radio Club  
PO Box 473251  
Aurora, CO 80047-3251  
<amlog@nationalradioclub.org>

For multiple items, there's no need to send separate checks or in separate envelopes. It all goes to the same National Radio Club HQ.

Payment options for any item: US\$ funds only: check, money order, or credit card (via PayPal: access <www.nationalradioclub.org> ONLY and follow the links), or cash at your risk. (Out of USA: Postal money order or PayPal only; NO checks.)

All checks and money orders should be made out to: National Radio Club.



*DX News* is printed by

Peak Printing, Inc.  
716 S. 9th Street, Cañon City CO 81212  
(719) 275-2136 [info@peakprintingonline.com](mailto:info@peakprintingonline.com)  
All your printing needs – including SWL and Amateur QSL Cards

National Radio Club  
P.O. Box 473251  
Aurora, CO 80047 – 3251

First Class Mail  
U.S. Postage  
PAID  
Cañon City, CO  
Permit # 22