

# DX News

*Serving DX'ers since 1933*

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**Goin' to Kansas City:** Hosts Ernie Wesolowski and Dale Hamm are awaiting us at the 2016 DXers Gathering September 9-11. See page 14 for the latest information, and see you in KC!

**From the Publisher:** No "Confirmed DXer" column this time, as Phil Bytheway didn't receive any contributions; his next deadline will be Sept. 8 at phil\_tekno@yahoo.com.

We'll be back in 3 weeks to wrap up Volume 83 and then on to the biweeklies.

### Membership Report

**RIP:** "I'm sorry to tell you Brad Wall died Oct 31. He would like me to tell you he loved reading your letters and anything related to his radios." – Debi Wall, South Lake Tahoe, CA.

#### From the Mailbag:

"My situation here has improved a lot since REJOINING!" – Jerry Elya

"Please renew my NRC membership for another year." – James T. Weber

**New Members** – Please welcome Samuel T Brainerd, Hampstead, MD; Jim Dungey, Cuyahoga Falls, OH; Adam Grose, Tucson, AZ; Merle Mackenzie Jr, Modesto, CA; Christopher Melugin, Wichta, KS; and Evan Miller, Glen Allen, VA.

**Rejoining Member:** And welcome back to Jerry Elya, Grand Rapids, MI.

**Renewing Members:** Thanks for the ongoing support from Roger Anderson; Phil Bytheway; Mike Clancy; John E. Clark; Michael J. De Roo; Bill Dvorak; Louis Ford; Karl D. Forth; William R. Hale; Robert Harrison; Eugene Hinton; Willard G. Hoffmann; Fred L. Kincaid; Taylor McNeil; James J. Nahirniak; Darrell Neft; Russell C. Nelson; John Nowak; Charles Rader; Andy Ross; Robert Ruckman; Odd-Jorgen Sagdahl; Gary Siegel; Michael Tate; Peter V. Taylor; Paul B. Thomas, Jr. K2QPK; Raymond Vallee; Joseph Vargo; James T. Weber; Jennifer Weinbrum; Frank Welch; Thomas H. White; Robert D. Young, Jr.; and Philip Zmenkowski.

### 37th Edition of the National Radio Club's AM Rado Log Is Available and Shipping!

The National Radio Club, the World's Oldest and Largest Broadcast Band DX Club is proud to announce the publication of the 37th edition of the *AM Radio Log*. The *AM Radio Log* is a source for information on AM radio stations in the United States and Canada. The 37th edition of the Log contains 300 pages of data and cross references and 12 pages of instructions in 8-1/2" x 11" size, 3-hole punched, U.S. looseleaf format. This publication fits nicely into a 1" three-ring binder. 9,000+ updates since last year's 36th Edition of the log! New for this year is a cross reference by State/Province 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 book), 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.nrcdxas.org>. Prices are: to U.S. addresses by Priority Mail, \$26.95 for NRC members, \$30.95 for nonmembers; to Canada US\$39.25 by Global Priority Mail; outside North America US\$49.75 by Global Priority Mail.

### Volume 83-84 DX News Schedule

No.	Deadline	Print	No.	Deadline	Print	No.	Deadline	Print
20	Sept. 9	Sept. 19	7	Dec. 16	Dec. 26	14	Apr. 7	Apr. 17
1	Sept. 23	Oct. 3	8	Dec. 30	Jan. 9	15	Apr. 28	May 8
2	Oct. 7	Oct. 17	9	Jan. 13, 2017	Jan. 23	16	May 26	June 5
3	Oct. 21	Oct. 31	10	Jan. 27	Feb. 6	17	June 23	July 3
4	Nov. 4	Nov. 14	11	Feb. 10	Feb. 20	18	July 21	July 31
5	Nov. 18	Nov. 28	12	Feb. 24	Mar. 6	19	Aug. 18	Aug. 28
6	Dec. 2	Dec. 12	13	Mar. 17	Mar. 27	20	Sept. 8	Sept. 18

# AM Switch

Info to David Yocis, 9412 Ferry Landing Ct., Alexandria, VA 22309, [NRCDXNews@gmail.com](mailto:NRCDXNews@gmail.com)  
Canadian information from CRTC complied by Shawn Axelrod and Dan Sys  
NRC AM Log updates from Wayne Heinen, [amradiolog@nrcdxas.org](mailto:amradiolog@nrcdxas.org)

## Official updates from the FCC and the CRTC

### CALL CHANGES

- 910 WAEI ME Bangor – Call change to WABK (July 26).
- 1340 WNZS ME Veazie – Call change to WBAN (July 27).
- KQJZ MT Evergreen – Call change to KLYW (July 25) and then to KYWL (Aug. 12).
- KWWX WA Wenatchee – Call change to KYSP (Aug. 1).
- 1400 WWNZ ME Veazie – Call change to WCYR (Aug. 5).
- 1450 WKTQ ME South Paris – Call change to WOXO (Aug. 1).
- 1470 WEVG AL Evergreen – Call change to WPNS (July 25).

### STATIONS GOING DARK

- 1240 WDDO GA Macon – License of silent station cancelled July 18 at licensee's request.
- 1520 WJMP OH Kent – Went dark July 31; license cancelled Aug. 1 at licensee's request.

### CONSTRUCTION PERMITS FOR EXISTING STATIONS

CPs fully licensed and on the air:

- 1230 WMOU NH Berlin – CP for U1 1000/930 from a new site (44-28-58/71-10-38) is on the air.
- 1300 KCMY NV Carson City – CP for U1 5000/120 is on the air.
- 1400 KCOG IA Centerville – CP for U1 420/840, corrected coordinates (40-44-47/92-54-18), is on the air.
- 1570 WMVX MA Methuen – CP for U1 31000/102, CoL from Beverly MA, new site (42-40-26/71-11-26), is on the air.

CPs complete, nearing final licensing:

- 950 WXLW IN Indianapolis – Applies for license to cover CP for U1 1000/13.
- 1200 WXIT NC Blowing Rock – Applies for license to cover CP for D1 4200 from a new site (36-12-59/81-42-06).
- 1400 WHUB TN Cookeville – Applies for license to cover CP for U1 740/740 at a new site; granted program test authority for the CP.
- 1470 WKUM PR Orocovis – Applies for license to cover CP for U1 2400/3700.
- 1660 WWRU NJ Jersey City – Applies for license to cover CP for pattern adjustments.

CPs granted:

- 960 KOVO UT Provo – Granted CP for U1 5000/140.
- 1200 WZPS WV Huntington – Granted CP for U1 5000/9.

Amendment to CP granted:

- 1020 WURN FL Kendall – Has CP for U4 4500/1500, CoL to Boynton Beach FL (current site of WLVJ-1040), granted amendment to U4 4700/1500.

Applications filed:

- 1470 KYYW TX Abilene – Applies for U1 5000/110.
- 1500 WMTI PR Manati – Applies for U1 1200/290 from new tower at 18-26-01/66-28-39.

### SPECIAL TEMPORARY AUTHORITY (STA)

- 550 WSVA VA Harrisonburg – Granted STA with U1 5000/125; night pattern problems.
- 750 KOAL UT Price – Granted STA to use new towers as specified in CP.
- 790 KEJY CA Eureka – Granted STA for U1 500/110 from KWSW-980 tower.
- 940 KFIG CA Fresno – Granted STA for parameters at variance; animals chewed through the sample line to one of the towers.
- 1080 KCNM MP Saipan – Applies for STA with U1 500/500 from a temporary antenna; tower was collapsed in Typhoon Soudelor and station has been silent since Jan. 3.
- 1130 KXMR ND Bismarck – Applies for STA with U7 25000/4000 (ch 13000); 50 kW day transmitter not operating at full power.

- 1150 KDEF NM **Albuquerque** – Applies for STA with D1 1000 from a temporary antenna and site; has lost licensed site.
- 1200 WJUA FL **Pine Island Center** – Granted STA with U2 10000/2200; day power reduced due to problem in day pattern, night power previously increased due to Cuban QRM. (WJUA had applied separately to extend the night power STA, but this application was dismissed.)
- 1260 KKSA TX **San Angelo** – Granted STA with reduced power due to thunderstorm damage, now using U1 170/71.
- 1330 WENA PR **Yauco** – Granted STA with U1 500/500 from a temporary antenna and site; has lost lease to licensed site.
- 1380 WBEL IL **South Beloit** – Granted STA for U1 5000/1250, can't switch to night pattern.
- KSRV OR **Ontario** – Granted STA with U1 5000/250, grass fire damaged a tower.
- 1470 WAZN MA **Watertown** – Applies for STA with U3 1400/1400, day pattern 24 hours.
- 1480 WZRC NY **New York** – Granted STA with parameters at variance during WWRV-1330 diplexing.
- 1500 KHKA HI **Honolulu** – Granted STA for U1 5000/5000 from a temporary antenna at the existing site; tower to be removed to accommodate light rail project.

Applications to extend existing STAs were **received** from **WNSR-560 Brentwood TN** (U1 1125/75 from licensed night site); **WKZO-590 Kalamazoo MI** (U1 5000/1250); **KZZB-990 Beaumont TX** (U1 250/250); **WOMN-1110 Franklinton LA** (D1 145 from WUUU (FM) tower); **KXNT-1140 North Las Vegas NV** (parameters at variance); **KIMM-1150 Rapid City SD** (U1 5000/125); **WGMP-1170 Montgomery AL** (U1 4/4); **WLRO-1210 Denham Springs LA** (U1 10000/250); **KHKR-1210 Washington UT** (reduced day power, unspecified); **WLNK-1230 Kinston NC** (reduced power); **KEZM-1310 Sulphur LA** (U1 125/12.5 from a temporary site); **WINT-1330 Willoughby OH** (U1 125/11); **WKIZ-1500 Key West FL** (U1 62/62); **WOBX-1530 Wanchese NC** (D1 250); **KKAA-1560 Aberdeen SD** (night pattern at variance); **KVAM-1570 Loveland CO** (U1 90/90 from a temporary antenna); and **WWRU-1660 Jersey City NJ** (adjusted pattern as in CP).

Applications to extend existing STAs were **granted** to **WTBN-570 Pinellas Park FL** (U4 5000/10000 due to Cuban QRM); **WKAQ-580 San Juan PR** (U1 10000/4500); **WARM-590 Scranton PA** (parameters at variance); **KIDD-630 Monterey CA** (U1 300/250 from KNRV-1240 tower); **WQNO-690 New Orleans LA** (U1 2500/1250); **WLTP-910 Marietta OH** (U4 5000/9 using day site/pattern); **KDHL-920 Faribault MN** (minor parameters at variance); **KSDN-930 Aberdeen SD** (U1 1250/250); **WIPR-940 San Juan PR** (operation for alternate site); **KFAB-1110 Omaha NE** (parameters at variance during translator duplexing); **KLIM-1120 Limon CO** (D1 100 from a temporary site); **KSDO-1130 San Diego CA** (U1 2500/2500 from a temporary antenna); **KTLK-1130 Minneapolis MN** (minor parameters at variance); **WOBM-1160 Lakewood Township NJ** (parameters at variance); **WVNJ-1160 Oakland NJ** (parameters at variance or U1 1000/62.5); **WQHC-1170 Hanceville AL** (D1 10 from a temporary site); **KRAL-1240 Rawlins WY** (U1 50/50 from a temporary site); **WALO-1240 Humacao PR** (U1 1000/5000); **KKDZ-1250 Seattle WA** (U1 5000/1250 from day site, night power is LSS-0300 only); **WJYE-1280 Gardiner ME** (U1 5000/1250); **WJMO-1300 Cleveland OH** (U1 1250/1250); **WADB-1310 Asbury Park NJ** (U1 625/250); **KTCK-1310 Dallas TX** (minor parameters at variance); **WHGM-1330 Havre de Grace MD** (U1 5000/125); **WTRN-1340 Tyrone PA** (reduced power); **WHNR-1360 Cypress Gardens FL** (U1 1250/625); **WDOV-1410 Dover DE** (minor parameters at variance); **KKZZ-1520 Port Hueneme CA** (minor parameters at variance); **KZNX-1530 Creedmoor TX** (U3 220/220 at licensed night site); **WPUL-1590 South Daytona FL** (U1 250/32 from a temporary site); **WFBK-1590 Glen Burnie MD** (minor parameters at variance); and **WGBG-1590 Ocean City MD** (U1 250/57).

Application to extend an existing STA was **denied** to **KOVO-960 Provo UT** (operations at temporary site; application for CP to move to that site was approved but after last old tower was scheduled for demolition on August 5).

#### SILENT STATIONS

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

- 770 WYRV VA **Cedar Bluff** – Silent Sept. 1 (2015), back on the air Aug. 11.
- 970 WCHN NY **Norwich** – Silent Nov. 19 (2015), back on the air Aug. 17.
- 1060 KTNS CA **Oakhurst** – Silent Sept. 25 (2015), back on the air Aug. 17.
- 1230 WAMM VA **Woodstock** – Silent Sept. 2 (2015), back on the air Aug. 10.

Stations informing the FCC that they are silent:

920	KPSI	CA	Palm Springs	– Silent Aug. 12, pending potential sale.
930	KIUP	CO	Durango	– Silent Aug. 8, power supply failure at transmitter site.
1090	KRKE	NM	Milan	– Silent Aug. 1 pending CP application to move station.
1150	KDEF	NM	Albuquerque	– Silent June 1; has lost licensed transmitter site.
1210	WLRO	LA	Denham Springs	– Silent Aug. 13 for “technical reasons,” presumably floods.
1240	KVRC	AR	Arkadelphia	– Silent July 25; financial problems.
1340	KWXY	CA	Cathedral City	– Silent Aug. 12, pending potential sale.
1410	KEZY	TX	Marshall	– Silent Aug. 3, equipment failure.
1450	KAVP	CO	Colona	– Silent July 25; transmitter failure.
1460	WATD	MA	Brockton	– Silent Aug. 6; was operating under STA from a church but kept setting off the church’s fire alarm, so they’ll look for another site.
1480	KNTB	WA	Lakewood	– Silent Aug. 8, vandalism at transmitter site.
1490	WSVM	NC	Valdese	– Silent April 15 “for technical reasons,” sale of station is pending.
1570	KVAM	CO	Loveland	– Silent July 7; has lost licensed transmitter site.

Stations informing the FCC that they were briefly silent but now back on the air:

1220	WKTZ	FL	Jacksonville	– Silent July 25, and already back on the air Aug. 5 (main studio waiver was held up at the FCC).
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#### COORDINATE CORRECTION

970	WHA	WI	Madison	– CP to correct coordinates to 43-02-30/89-24-34 is on the air.
1030	WWGB	MD	Indian Head	– CP to correct coordinates to 38-33-56/76-49-05 is on the air.
1280	WSAT	NC	Salisbury	– Applies to correct coordinates to 35-40-45/80-30-25.
1340	KPGE	AZ	Page	– Applies to correct coordinates to 36-54-20/111-27-26.
1360	KWWJ	TX	Baytown	– Applies to correct coordinates to 29-46-29/95-00-55.
1470	KGND	OK	Vinita	– Applies to correct coordinates to 36-38-45/95-07-33.

#### CANADA

640	CBN	NL	St. John’s	– Granted CP for an FM repeater on 88.5, but AM will stay on air.
810	CJVA	NB	Caraquet	– Has moved to 94.1 MHz; AM is silent and deleted.
850	CP	QC	Montréal	– CP for new station has expired; looking bad for 600/940 CPs too.
1410	CKSL	ON	London	– Station went permanently silent Aug. 14 at 2400.

## *NRC AM Log Updates*

560	KLZ	CO	Denver	– Adds // K264BO-100.7 (WH)
570	KNRS	UT	Salt Lake City	– Slogan to “TalkRadio 105.9.”
590	WCAB	NC	Rutherfordton	– Slogan to “Country at Its Best.”
920	KQBU	TX	El Paso	– Format to SS:MEX (ex-SS:NWS/TLK); slogan to “Qué Buena 97.5,” adds // KBNA-FM-97.5.
930	KSEI	ID	Pocatello	– Slogan to “Classic Hits Oldies 930.”
960	WTCH	WI	Shawano	– Delete // W241CE-96.5.
970	WKCI	VA	Waynesboro	– Slogan to “News Talk 1300,” adds // WKCY-1300; delete Group // News Talk 1300.
1010	WORM	TN	Savannah	– Slogan to “Good Times & Great Oldies.”
1050	WLON	NC	Lincolnton	– Format to OLD (ex-C&W); slogan to “The Boss,” delete Group // Big O Country Radio. (TK)
	KXCA	OK	Lawton	– Format to UC:AC (ex-SPT); slogan to “1050 AM Heart & Soul,” networks to WW1.
1060	WKNG	GA	Tallapoosa	– Adds // W229CI-93.7. (FCC)
	KFOY	NV	Sparks	– Format to SS:MEX (ex-SPT); delete networks.
1150	WBAG	NC	Burlington-Graham	– Adds // W290CX-105.9. (FCC)
1160	WCCS	PA	Homer City	– Slogan to “The Voice of Indiana County,” nets to Fox/WW1/CS.
1170	KOWZ	MN	Waseca	– Adds // K292GU-106.3. (FCC)
1210	WDGR	GA	Dahlonega	– Slogan to “Radio Korea.”
1220	WKTZ	FL	Jacksonville	– Slogan to “American Family Radio.”
	WSRQ	FL	Sarasota	– Slogan to “Talk Radio,” adds // W252DF-98.3; delete Group // Sarasota Talk Radio.
1230	WEZO	GA	Augusta	– Format to GOS (ex-TLK); slogan to “1230 the Blaze,” drop nets.
	WYTS	OH	Columbus	– Adds // W287CP-105.3. (FCC)

- 1260 KMZT CA Beverly Hills – Format to NOS (ex-CLA); slogan to “Unforgettable 1260.”  
 1270 WBOJ GA Columbus – Format to Rock/OLD (ex-SS:CHR); slogan to “Boomer 102.5.”  
 1280 WTMY FL Sarasota – Format to SS:MEX (ex-NOS); slogan to “La Numero Uno 106.9.”  
 1300 WBSA AL Boaz – Adds // W228DD-93.5. (FCC)  
 1340 KYSP WA Wenatchee – Format to SPT; networks to FSR.  
 1350 WZKO FL Fort Myers – Adds // W298CB-107.5. (FCC)  
 1370 WSPD OH Toledo – Delete // W220EM-91.9; add // W225AM-92.9. (FCC)  
 KWNC WA Quincy – Format to SPT (ex-SS:AC); networks to FSR; delete // KKWN-106.7.  
 1380 KKRX OK Lawton – Format to SPT (ex-UC:AC); slogan “The Ticket,” nets to Ok/Oa/CS/Jr.  
 1390 WAJD FL Gainesville – Format to JAZZ (ex-UC:AC).  
 WOHS NC Shelby – Format to OLD (ex-C&W); slogan to “The Boss,” add // W286AV-105.1; delete Group // Big O Country Radio. (TK)  
 1400 KREW TX Plainview – Slogans to “The Krew 1400,” “Hometown Radio.”  
 1420 WINI IL Murphysboro – Format to OLD (ex-NWS/TLK); slogan to “Cool 93.5 & 1420,” delete networks. (PBW)  
 1450 WHDL NY Olean – Format to CHR (ex-SPT); slogan to “Hot 107.1,” delete nets; adds // W228AT-107.1.  
 1480 KKCQ MN Fosston – Adds // K259CW-99.7. (FCC)  
 KBXD TX Dallas – Format to Asian (ex-Silent); no slogan. (GH)  
 KLVL TX Pasadena – Format to ETH; slogan to “Radio Dabang.”  
 1490 WAEY WV Princeton – Slogan to “The Way 103.3,” adds // W277AW-103.3.  
 1520 WNWT OH Rossford – Adds // W220EM-91.9. (FCC)  
 1590 WCSL NC Cherryville – Format to REL:OLD (ex-C&W); delete Group // Big O Country Radio. (TK)  
 KDAV TX Lubbock – Format to REL:AC (ex-OLD); slogan to “The Spirit,” drops networks.

### Deleted Groups

// Big O Country Radio  
 // News Talk 1300  
 // Sarasota Talk Radio

Thanks to Shawn Axelrod, Bill Hale, FCC Database (FCC) Glenn Hauser (GH), Paul B. Walker Jr (PBW), Terry Krueger (TK).

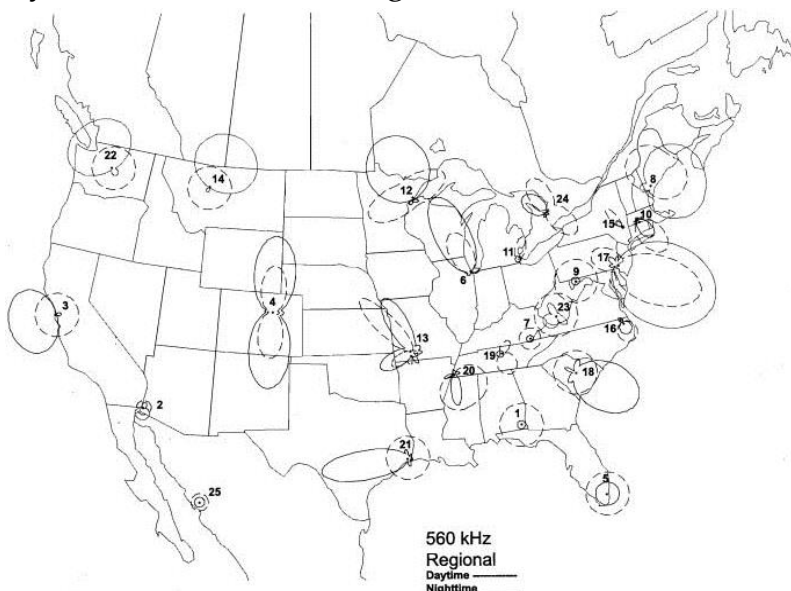
## Got Back Editions of the NRC Log or Pattern Book?

NRC Member David Gleason has a large collection of logbooks books at [http://www.americanradiohistory.com/Radio\\_Log\\_Master\\_Page.htm](http://www.americanradiohistory.com/Radio_Log_Master_Page.htm)

but he only has a few of the NRC Logs and Antenna Pattern Books from the past. He would like to scan as many as possible, and will reimburse postage by PayPal. If you want the logs returned, he will send them right back. Check at the bottom of the linked page to see which ones are already on the site or write to [david.gleason@americanradiohistory.com](mailto:david.gleason@americanradiohistory.com) for more details.

## NRC Antenna Pattern Book, 7th Edition

The 7th Edition of the NRC *Antenna Pattern Book* is now available. This all new edition prepared by NRC'er Paul Swearingen is an all-inclusive book of patterns for both Day and Night operation of stations in the USA, Canada and selected foreign stations. The data for the book comes from the 34th Edition of the *AM Radio Log* and NRC'er John Callerman's comprehensive Mexican station listing.



The book comes shrink wrapped in 8½ by 11 three hole punch format for placement in your own three ring binder. There are 240 pages and the book has maps covering 530 through 1700 kHz depicting the lower USA, Canada and Mexico. Hawaii and Alaska are shown on separate maps at the of the book.

Price/ordering info: Same as for the NRC *AM Log* (see page 1). Colorado residents, please add 3.5% sales tax.

# Domestic DX Digest – West

Jim Tedford, Editor

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

## REPORTERS

- GH-OK** **Glenn Hauser, Enid, OK.** Mostly DX-398 with internal antenna only; NRD-545 with ALA-330S E-W inside or N-S random wire; IC-R75 with E-W longwire; also available, PL-880 with internal or random wire; FRG-7 with NW/SE short wire; Nissan stock car radio when specified. Glenn's complete reports, with extensive commentary, are originally published in DX Listening Digest.  
<http://www.worldofradio.com/dxldmid.html>
- JJR-WI** **John J. Rieger, South Milwaukee, WI.** Icom IC-R75 MFJ-959B tuner, preamp Kiwa loop.
- JW-CO** **John Wilkins, Wheat Ridge, CO.** Drake R-8, 4-foot box loop.
- NJ-AZ** **Nancy Johnson, Mesa, AZ.** Drake R8B, 75' NS longwire.

## DX LOGS

- 780 KSPI OK **Stillwater** – 7/28 2232 – Open carrier is still on with dead air, making fast SAH with WBBM audible when nulled; July sunset for KSPI is 2145. 7/31 2214 – Open carrier still on, and can hear WBBM only by nulling it. **(GH-OK)**
- 810 KSWV NM **Santa Fe** – 7/31 2215 – Romantic music in Spanish loops east-west, which rules out México and makes it very likely this. Dominant signal making fast SAH with something, CO or MO? Segués 2216, 2220 with no announcements at all, but the final tune cut short at 2221 to dead air, 2223 off the air. Or rather maybe cut from 5000 to 10 watts night power U1 per NRC AM Log. FCC official July sunset was 2215. **(GH-OK)**
- 840 KXNT NV **North Las Vegas** – 8/4 0803 – Out of CBS news with “traffic and weather together,” followed by ads; ID as “News Talk 840 AM KXNT.” Fair/good with no QRM. **(JW-CO)**
- 840 KMAX WA **Colfax** – 7/22 0722 – PSA and “The Max” slogan. Fair signal and all alone, sounding like already on 10 kW day power. **(JW-CO)**
- 850 KFUE MO **Clayton** – 7/22 2228 – Very nice organ music, from NE/SW, way over KOA baseball, barely audible if I null this: obviously KFUE, which though a daytimer may remain on till Denver sunset. 2230 sign-off says KFUE, Clayton-St Louis MO, 5000 watts, 850, and standard disclaimer by LCMS, referring us to streaming for more, off 2231\*. Indeed, 2230 is KOA official FCC June-July sunset, though as a 50 kW U1 station they may ignore it; August moves KFUE up to 2200\*. (KOA also has a 10 kW ND U1 auxiliary/backup transmitter at another site, 30 minutes further north and 11 minutes further west; it sounds weak enough to be that now). **(GH-OK)**
- 900 KBIF CA **Fresno** – 8/10 0800 – Legal ID “KBIF Fresno, KBIF Fresno” by man noted in absence of IBOC from local KPOF-910; IBOC came back on a few seconds after KBIF ID, a stunning reversal of Murphy's Law. **(JW-CO)**
- 910 WHSM WI **Hayward** – 8/11 0615 – Fair! Loud with “WHSM, 910 AM, Red Rock Sports” upon tune in. Never heard this well. NBC sports. **(JJR-WI)**
- 1130 KSDO CA **San Diego** – 8/1 0731 – Modern Spanish religious songs; occasional canned slogan, e.g. “Alabando a Dios en todo momento, tu estacion de alabanza Radio Nueva Vida; legal ID at ToH: “Esta es una estación de la cadeña Radio Nueva Vida ... 1130 AM KSDO San Diego y al mundo entero nuevavida punto com.” Fair peaks, not much QRM. **(JW-CO)**
- 1220 WLPO IL **LaSalle** – 8/11 0622 – Poor though on top. “Classic Hits 103.9” with Billy Joel, ELO songs. **(JJR-WI)**
- 1260 KSGF MO **Springfield** – 8/11 0600 – Poor though on top, local ID for “104.1” with Fox news. If AM said, not heard. Rare! **(JJR-WI)**
- 1360 WMOB AL **Mobile** – 8/10 0511 – Poor with older REL, GOS songs. “WMOB/WTOF” and no WTAQ. In next morning too. **(JJR-WI)**



- 1360 KBUY NM **Ruidoso** – 8/7 0739 – “Ruidoso’s Classic Hits KBUY, k-buy,” and into an Eagles song. Fair, mixing with nearby KHNC, which was still on night power. (JW-CO)
- 1370 WTAB NC **Tabor City** – 8/10 0506 – Poor but over WSPD. Good Time Gospel music, calls. (JJR-WI)
- 1380 KRCM TX **Shenandoah** – 7/25 0000 – Full ID in super-hyped Spanish for “Vida 13-80, KRCM,” “una señal llena de vida,” plugging official inauguration of new name for Sat July 30 at 7 pm [CDT] and promises milagros (miracles) will ensue; phone 713-364-5027. Could that be when they will finally start obeying the Law of Man and turn night power down from 22000 to 43 watts? Yeah, sure. Why wait so long? Maurico Molano, Spain already logged the new name July 12 at 0034, and refers us to <https://www.facebook.com/vida1380houston/> Had been branded as “Radio Aleluya,” but that’s on a bunch of other AM and FM stations in the Houston market, so this will set it apart, as if anyone cared about such distinctions. (GH-OK)
- 1470 KVSL AZ **Show Low** – 7/31 0900 – Strong with “107.9 FM and 1470 AM, KVSL Show Low, Pinetop, Laketop. Listen live on your computer, tablet or smart phone at “rewind108.com” then woman with “80’s, 90’s and whatever we want. Whatever we want is the new Rewind 108” into ZZ Top song. No KNXN for a change. Heard 8/1 at 0837 with promo for country music on “99.7 The Bear.” Odd to hear Rewind 108 mentioned one day and 99.7 The Bear the next day. (NJ-AZ)
- 1480 KBXD TX **Dallas** – 8/11 0240 – South Asian vocal music. Newsmark reported to Radio Insight (via Artie Bigley) that KBXD reactivated Aug 8 with this new stunting format, ex-C&W music; had been off the air for about a sesquimonth. Now dominating frequency, no way I could listen to KQAM Wichita if I wanted to, so KBXD on 50 kW day power? 0300 ToH canned ID as “This is KBXD, 1480, Dallas,” same slightly Spanish(?) accent as was heard before the latest music flip. (GH-OK)
- 1579.58 WVOK AL **Oxford** – 8/11 2036 – Off-frequency carrier is hetting KOKB 1580.0. Thanks to Terry Krueger in FL and Tim Tromp in MI, this was already IDed Aug 9 as WVOK, Oxford AL, 2500/22 watts U1. Official FCC sunset is 2030 in August, and the other guys were hearing it definitely at night, so also running day power? Still not enough to detect anything but the carrier here under KOKB. One way to pinpoint the frequency indirectly: note the pitch of the het when tuned to 1580 in AM. Then with BFO, tune down until hearing the same pitch as reverse het from 1580, and read the readout. Oxford “1580” has been WVOK since Sept. 3, 2002, but I remember when a much bigger station was WVOK: 50 kW 690 in Birmingham until 1992 (now WJOX). 8/12 2054 – Off-frequency carrier from WVOK is easily audible hetting 1580.0, but nearby KOKB Blackwell seems to have gone off early in the past semi hour, facilitating WVOK monitoring vs weaker 1580 signals. With narrow bandwidth, LSB and passband tuning I am able to pull a little audio, talk until 2100 music, but no ID copied. Just in case, I confirm this is not // 1390 KCRC, a spur-producer, nor remnant of KOKB, not // 105.1 KOSB. Splash from 1570 XERF is really a bigger problem: one of their frequent trans-frontera missing-person notices at 2101. (GH-OK)
- 1580 KOKB OK **Blackwell** – 8/6 1942 – KOKB Blackwell is emitting a rapid pulsing noise rather than any programming, while sibling stations 1020 KOKP Perry and 105.1 KOSB Perry are OK with sports talk.) (GH-OK)
- 1610 CHHA ON **Toronto** – 8/16 2202 – Comedy in unknown language, 2203 sounds like S Asian music. Rather this is the Tagalog hour on CHHA Toronto, M-F at 10-11 pm ET, per <http://chha1610am.ca/programming/> That’s stretching the “Voces Latinas” licensed format as far as possible, though the Filipinas and its main language do have heavy Spanish colonial influence. (GH-OK)
- 1650 KSVE TX **El Paso** – 7/24 0721 – Local El Paso interview show from KSVE, doesn’t seem to be about sports, in Spanish, but both speakers have a slight Anglo accent. Mentioning “high school” (¿jáiscul?) and registration date 5 de agosto, for that or El Paso Community College, phone 831-2424. Need to listen in USB to minimize local 1640 KZLS, even when nulled, close to 90 degrees away from EP. 0730 outro show as on an FM and “ESPN Deportes 16-50.” 0731 on to another show discussing the Republican National Convention. The FM would be

another Entravisión one, 93.9, KINT, José or 94.7, KYSE, La Tricolor, although they have an English one too: 92.3, KOFX, Oldies. Checking the "Shows" online for each, what I heard are too insignificant to be mentioned, and no complete program schedules for any. (GH-OK)

**1680 KRJO LA Monroe** – 8/16 2200 – KRJO with ID as "99.7 FM KRJO, Monroe, My FM"! No ID for 1680, and wrong call for 99.7 which is 250-watt translator K259CU, wagging this dog. Owners who degrade their AM stations this way should have their licenses revoked. (GH-OK)

#### UNID

**1330/1350 UNID** 7/21 2129 – Matching mushy spurblobs around 1330.6 and 1349.4, making hets against 1330 and 1350 stations, implying they're coming from someone on 1340. Not on a loop antenna, so can't check direction. (Not to be confused with the local spurs circa 1360 and 1420 which still attach to 1390 KCRC). 7/22 2223 – Agsin hearing these spurs, this time on the DX-398, I DF them as close to east/west from here. 7/29 2055 – Carriers just audible on 1330.25 and 1350.15, implying the center fundamental frequency would be 1340.20, but I don't hear anything there separable from the 1340.0 pileup. This early, almost an hour before sunset, so maybe east instead of west. 7/29 2244 – No spurs noted. 8/4 2053 – There is a carrier on 1330.23 hetting 1330 stations; but no match around 1350 so can't assume this is a spur from some 1340 outlet; maybe merely a 1330 off-frequency. (GH-OK)

#### OTHER

On 7/28 until 2327, I was checking part of the MW band just as Hillary is finishing her acceptance speech, and surprised to find in the 800s at least, she's live on multiple stations, even WBAP! WCCO, WHAS, KOA, WWL, and WOAI, among certainly others.

My strongest local, KCRC-1390 Enid, continues to pollute the upper MW band with spurs at plus & minus 30 and 60 kHz, but not exactly. First noted as hets at midday Sat Aug 13, 1546: on 1450, higher pitch than 1420; on 1330, lower pitch than 1450. At 1549-1553, during Cards baseball on KCRC, I carefully track and measure them on the NRD-545 with ALA-330S antenna:

1330.25, making het upon KNSS Wichita KS, the outer ones weaker  
 1360.14, hetting EWTN, i.e. KPHN El Dorado KS; EWTN ID also heard  
 1389.99, KCRC itself is a bit off; RF gain turned almost all way down  
 1419.85, blocking KTJS Hobart OK: KCRC audio clearly dominant here  
 1449.72, hetting KSIW Woodward/KGFF Shawnee OK mix

These are approximations, amounting to plus 29.86, minus 29.85; plus 59.73, minus 59.74, each measured independently. No doubt another digit to the Hz would make for exact matches. I also attempted to hear any hets from spurious carriers ~90 kHz out, around 1300 & 1480. KCRC published this small display ad in the July 26 Enid News & Eagle: "We're changing the face of sports radio in Enid! AUGUST 1 on 1390 KCRC!" --- I suppose that mean they are quitting ESPN Radio for another of the proliferating sports networks. (GH-OK)

Thanks to everyone. See you next time. (JDT-WA)

# Musings of the Members

Dave Schmidt, Editor

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

**Gary Siegel – 2955 115th Street, Toledo OH 43611**

Sign me up for another year in the NRC. The bulletin looks as good as ever. Too bad the AM Bands health isn't as good. Seems as if skywave is a dream thing of the past. Methinks HD-IBOC digital has white washed the dial with latent noise, keeping distant reception muted. Even the GY local channels have morphed into a montage of only the closest local stations getting heard. AM total is 3,743 – not sure how many I can add anyway – but the FCC has not helped – nor on FM or TV either, drat them. Hope to see many in KC in September.

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



# Domestic DX Digest – East

Mike Brooker, Editor

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

Loggings of U.S. and Canadian stations by DXers located in the Eastern and Atlantic Time Zones.

All times are Eastern Local Time (ELT).

## REPORTERS

**HF-MI** Harold Frodge, Midland – Drake R8B + 185' & 60' RW + 125' bow-tie  
**HJH-PA** Harry Hayes, Wilkes-Barre – C. Crane Skywave, Q-Stick Plus ferrite rod  
**KK-VA** Kraig Krist, Manassas – Winradio G33DDC SDR, Wellbrook ALA-1530S+ Imperium Loop  
**TLK-FL** Terry Krueger, Clearwater – NRD-535, IC-R75, roof dipole, active loop  
**JRM-PA** John R Malicky, Pittsburgh – Delco car radio  
**PS-ON** Paul Snider, Welland – ICOM R75, Pixel RF Pro-1B loop, MFJ-1020C tuner  
**MKB-ON** Mike Brooker, Toronto – Grundig G5, Grundig YB-400PE, Sony SRF-39FP, C Crane CC Skywave, Panasonic RF-2200 (receiver emeritus)

Follow me on Twitter! [@patria1818](https://twitter.com/patria1818) DX-related tweets will be hash-tagged #MWDX.

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

## CATCH THE DRIFT

**1579.58 WVOK AL** Oxford – 8/9 0509 – Poor, way off channel het against multiple 1580 stations with Oldies format. The Kinks “Tired Of Waiting For You” at tune-in. **(TLK-FL)**

## LOGGINGS

**690 CKGM QC** Montréal – 7/30 2215 – Mainly on top of the mix with Montreal Alouettes CFL post-game show, “TSN-690 Sports Center, home of the Habs and Alouettes” station promo. **(HF-MI)**

**760 WCIS NC** Morgantown – 7/14 2040 – In WJR/UNID Spanish mix with “This is AM 7-60 ‘The Cross’” slogan, 2045\* female with WCIS sign-off announcement. **(KK-VA)**

**780 WCKB NC** Dunn – 8/18 2000\* – Fair, noted partial sign-off announcement just after WAVA s/off mentioning Gospel radio and studio, tower, and transmitter on US Highway 421. Not heard on 8/19. **(JRM-PA)**

**WAVA VA** Arlington – 8/19 2000\* – Very strong with full sign off mentioning “Life Changing Radio ... serving Washington, DC, Maryland, and Virginia ... on the web at wava.com ... tune in to 105.1 ... and WAVA Arlington-Washington.” **(JRM-PA)**

**800 WDSC SC** Dillon – 8/2 2027 – In multi-station mix (WSVS, PJB-Bonaire, Spanish from Cuba, other Spanish and Morse code not from R. Reloj) with male “Your sports connection WDSC” ID. **(KK-VA)**

**810 WPIN VA** Dublin – 8/4 2014\* – In WGY mix with male “AM 8-10 WPIN Dublin now concludes its broadcast day.” However, signal remains on air with “ESPN Blacksburg” programming. The constant drum beating/rap/hip hop in the background of the “Jalen & Jacoby” show is especially annoying. Finally went off air at 2016:16. **(KK-VA)**

**880 WRFD OH** Columbus-Worthington – 8/1 2029\* – End of gospel show, “Life Changing Radio WRFD”; ID, closing announcements at 2029:54 and off; open carrier stayed on for about 2 minutes. Nobody rose up to take over. It took WCBS about 14 minutes to emerge to an IDable level. **(HF-MI)**

**920 WMMN WV** Fairmont – 8/12 2221 – Sports talk, ID at 2229 “93..?...920 WMMN,” then lost to CKNX, UNID Spanish and religious stations. Very poor. **(PS-ON)**

**950 WCTN MD** Potomac-Cabin John – 8/4 2158 – “We Didn’t Start the Fire” by Billy Joel, ToH ID sounded like WCTN but wasn’t sure, continuous filler music by The Beatles, Jesse J, The Wallflowers, Steppenwolf, Robin Thicke, Bruce Springsteen, Queen & others, ToH ID at 0000 nice and clear “WCTN...Maryland.” Fair to very poor, mixing with WWJ. Apparently WCTN has dropped their Radio Zindagi/ethnic programming and have been playing filler music for the last few weeks. **(PS-ON)**

- 960 WERC AL **Birmingham** – 8/4 0600 – Wiping out all comers with Fox News, “News Radio 105.5 WERC Birmingham, an iHeartRadio station” ToH ID that didn’t even bother mentioning their AM frequency, into local weather. **(MKB-ON)**
- 1010 WHIN TN **Gallatin** – 8/1 2315 –C&W music, “Old Flame” by Alabama, “Save It for a Rainy Day” by Kenny Chesney, “Real Country” ID at 2319, talk about current movies, “Big in Vegas” by Buck Owens, “Legends played day and night, WHIN” ID at 2324, “Chattahoochee” by Alan Jackson, “That’s What I Love About Sunday” by Craig Morgan. Poor at times to very poor under CFRB and mixing with WINS. **(PS-ON)**
- 1160 KRDY TX **San Antonio** – 8/5 1952 – Spanish Christian pop and reggae, lots of references to 92.1 FM (translator I don’t locate or sister station?). Also noted 8/6 2000 with legal ID, very good signal and suspect they aren’t powering down, which must give KVCE in Highland Park fits if so. **(TLK-FL)**
- 1190 WSDQ TN **Dunlap** – 8/7 0420 – Classic Country and some Southern Gospel tossed in (at least on this Sunday morning). Sample songs include Patsy Cline “Crazy” and “Man On A Mule” by The Isaacs (LaFollette, TN Southern Gospel/bluegrass group). Slightly varying male canned liners after every couple songs, such as “Country 11-90, WSDQ, the All New Q” and “The All New Q, WSDQ” etc. They are D1, so clearly violating the license. Looking at their FCC file, they’ve got a laundry list of violations ranging from restricting public files inspection to EAS issues, so why not go for another? **(TLK-FL)**
- 1260 WPNW MI **Zeeland** – 7/30 1810 – Town Hall political commentary, call-in show. Grandville Trailer ad and Western Michigan promo. Fair at best **(HF-MI)**
- 1270 WXYT MI **Detroit** – 8/18 0058 – Caught under local WHLD Niagara Falls, NY. Both stations playing The Scott Ferral Show, managed to catch “WXYT” ID under WHLD. Poor to very poor. **(PS-ON)**
- WQTT OH **Marysville** – 8/5 2317 – In and out with “Cool” slogan and 60’s oldies. Weather forecast at this time mentioning call. **(HJH-PA)**
- 1280 WFYC MI **Alma** – 7/28 1902 – Strong signal with The Huge Show (sports) remote from the North Kent Golf Club (Rockford MI); mentioned “sister station 1340 WJRW Grand Rapids” (not heard due to dominant in-state rival WLEW) and “flagship station 107.3” (presume WBBL Greenville MI). Apparently the switch to C&W didn’t last long if it ever did. **(HF-MI)**
- 1330 WYRD SC **Greenville** – 8/18 0021 – Mike & Mike Show promo, ESPN 1 and ESPN 2 promos, mention of “ESPN Upstate” at 0022, Freddie Coleman Show, Straight Talk Wireless ad. Fair to very poor, mixing with unknown oldies or nostalgic station. No sign of usual WFNN. **(PS-ON)**
- 1350 WNLK CT **Norwalk** – 8/15 2225 – Sounded like gospel, urban contemporary and reggae music, ID at 2243 “This is WNLK...Peace and Love Radio,” into more music. Good to very poor mixing with WRNY and unknown talk station playing the Dave Ramsay Show. No sign of usual WARF and WOYK. **(PS-ON)**
- WRNY NY **Rome** – 8/15 2248 – Sports talk, ESPN promos, ID at 2248 “...1350 WRNY Rome...,” sports scores, Yankees promos. Good to very poor mixing with WNLK, WARF and UNID talk station. **(PS-ON)**
- 1360 WMOB AL **Mobile** – 8/17 2345 – Southern gospel music, announcer mentioned WMOB, ID at 2359 “You are listening to WMOB, Mobile...,” into more gospel, another ID at 0015 as above, but mentioning “...Mobile’s Christian Voice...,” into a brief talk about the history of WMOB and listenership and gave mailing address. Good at times to very poor mixing with WSAI. Probably left day power on. **(PS-ON)**
- WOEN NY **Olean** – 8/4 2145 – Fair signal with “WOEN-1360 and WGGO-1590” ID also slogan “The New Talk of the Twin Tiers.” **(HJH-PA)**
- 1460 WGMF PA **Tunkhannock** – 8/17 2230 – While trying to ID Fox Sports station I heard mentions of “GEM” and then a mention of gem104.com. Lost to CJOY, WKDV, WHIC and still unknown Fox Sports station. Very poor. **(PS-ON)**
- 1470 WTOE NC **Spruce Pine** – 8/1 0029 – Talk by female announcer with mention of WTOE at 0030, “Another Day” by Paul McCartney, “...good times, great oldies WTOE” ID at 0035, “Heaven” by Bryan Adams, “Sunny” by Bobby Hebb, “Soul Man” by The Blues Brothers, “Back Stabbers” by the O’Jays. Very poor in station mix. **(PS-ON)**
- WLOA PA **Farrell** – 8/8 2315 – Oldies music including “War” by Edwin Starr, “Brand New Key” by Melanie, “Sad Eyes” by Robert John, “940 WGRP and ...” ID at 2330, mention of 940wgrp.com, Big Ben type bells and “You Are Listening to 940

WGRP Greenville and 1470 WLOA, Youngstown." Poor to very poor in station mix with WMBD. **(PS-ON)**

- 1490 WOLF NY **Syracuse** – 8/8 2258 – Fox Sports promos, barely caught "WOLF" ToH ID. Very poor in station mix including possibly in-state rivals WBTA and WRCE. **(PS-ON)**
- 1510 WPGR PA **Monroeville** – 8/13 2237 – Religious talk, choral music, bible readings, ToH ID "This is WPGR, we are one body..." into more religious teachings (Morning Verses?) and prayers. Must have left day power on as they were mostly over WLAC. Good to poor. **(PS-ON)**
- 1550 WZUM PA **Braddock** – 7/30 0027 – Jazz music, announcer gave song titles from previous set, "All The Bars Are Open" by Roy Haynes Featuring Chick Correa, "Funding for the Pittsburgh Jazz Channel..." mention, ID at 0040 "WZUM, Pittsburgh's Jazz Channel," mentioned wzum.org, request for financial support, more music. Poor to very poor, mixing with usual CBEF and WDLR. **(PS-ON)**
- 1590 WALG GA **Albany** – 8/15 0815 – Morning drive news format, including Fox News captures, fairly weak. Last decent audio was from 0845 with precious metals con-artist spot followed by local TV hack with Albany weather for today. Someone even weaker with all instrumental EZL under then gone by 0900. **(TLK-FL)**
- WTVB MI **Coldwater** – 8/1 1930 – 70s-80s Oldies; "More music & less talk WTVB," "AM 1590 and FM 95.5 WTVB" IDs. Peaking in the mix with Indians baseball on WAKR and UNID sports talk station. **(HF-MI)**
- WGGO NY **Salamanca** – 8/4 2155 – Ad for Tax Solutions during the Steve [last name unintelligible] Show. CBS News at ToH. "WOEN-1360, WGGO-1590" ID. **(HJH-PA)**
- WCSL NC **Cherryville** – 8/15 0535 – On a Monday morning, "Living On the Edge" de-motivational program, presumed brokered Christian Joel Osteen-like preacher, concluding program at 0559, male ID, promo for Carolina Panthers coverage, into redneck female weather forecast, female badly screeching the Star Spangled Banner 0602-0603, male ID. Van Morrison "Domino" then live local DJ time check, into "Up On the Roof" by The Drifters, local ads for stores in Shelby and Cherryville area, including Scism & Son Paint and Body Shop (had to Google for the spelling of that one -- thought it was Sizzlin' & Son), promos for the American Legion World Series coverage and mention of 101.3 FM. Some co-channel from WPSL, and unidentified C&W and a presumed Mexican. The WCSL logo states "Your Christian Connection" and displays a big crucifix, so presumably no longer C&W format, but yet clearly now Oldies format as well. Surely operating on day power to hear this well, and not the first time. Still no trace of my local WRXB, despite a phone call later this morning to their office number and the claim that they are on the air "but with technical difficulties." **(TLK-FL)**
- 1690 WPTX MD **Lexington Park** – 8/5 2342 – Caught "...1690 WPTX" ID and mention of Maryland by female announcer, then what sounded like CBS news, into nostalgic music. Very poor, mixing with CHTO and CJLO. **(PS-ON)**
- 1700 KVNS TX **Brownsville** – 8/7 0648 – Fox Sports Radio promo, clobbering WJCC on the sunrise. **(TLK-FL)**



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# International DX Digest

Bruce Conti, Editor

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Loggings of stations outside the U.S. and Canada. All times are Universal Coordinated Time (UTC).

## TRANS-ATLANTIC DX

252 **ALGERIA** *R.Algerienne*, Tipaza JUL 30 0440-0445 – Two men in impassioned discussion in French. Fair for 5 min. till dropped away. No other LWBC's heard; only a carrier on 153 kHz. [Frodge-MI]

## PAN-AMERICAN DX

- 539.86 **NICARAGUA** *R.Corporación*, Managua AUG 19 0400 – Poor; could barely hear a woman in Spanish and orchestral music breaking through 540 WLIE splatter. Signal not observed at 0458 UTC recheck. [Conti-NH]
- 590 **MEXICO** XEBH Hermosillo, Son. AUG 13 1121 – A variety of music, with different versions of “B-H La Mejor” slogan after each selection. Fair at best with no sign of nearby KCSJ. [Wilkins-CO]
- 610 **MEXICO** XEGS Guasave, Sin. AUG 3 1130 – National anthem, followed by music, mostly of the “banda” type, heavy on the tuba; the announcer was Horacio Rodriguez, “El Cotorro Madrugador.” Fair signal but usually under KNML. Noted the national anthem several times at this time rather than at top of the hour. [Wilkins-CO]
- 630 **MEXICO** XEFB Monterrey, NL JUL 24 1103 – Full ID for XEFB by super-hype voice actor, probably after 6 a.m. NA, mentions fb630.com. Poor signal. Here's the program grid page, rather incomplete especially on weekends: <http://fb630.com/programacion>. [Hauser-OK]
- 690 **MEXICO** XERG Monterey, NL AUG 11 1059 – Mexican anthem; ID at 1101 with power (10 kW), frequency, member of Multimedios, and slogan “R-G La Deportiva”; sounded like another anthem at 1102, possibly the state anthem of Nuevo Leon; 1103 time and temperature check into sports talk. Fair signal, mixing with others. [Wilkins-CO]
- 710 **MEXICO** XEDP Cd. Cuauhtémoc, Chih. JUL 24 1104 – Choral national anthem and 1105 full ID as “XEDP, La Ranchera de Cuauhtémoc,” Chihuahua plus sung ID. Not the usual SRS bigsig we get, but barely audible, poor with co-channel interference, so maybe closer to 100 watt night power than 7000 day? At least they are using the on-frequency transmitter; in fact, come to think of it, have not heard their off-frequency hetter from second transmitter site lately. AUG 1 0213 – Audible het on low side against KCMO also looping northeast/southwest, presumably XEDP employing its off-frequency transmitter/site. [Hauser-OK]
- 730 **MEXICO** XEHB Hidalgo del Parral, Chih. AUG 11 1151 – National anthem, followed by ID for both XEHB and XHFB-FM, with address and mentioning membership in Radiorama; “Estereo Fiesta” slogan and a couple of ads were followed by music at 1155 UTC. Fair in the mix. [Wilkins-CO]
- 790 **CUBA** *R.Reloj*, Pinar del Río//Holguín AUG 19 0900 – Loud minute marker, RR code, and syncopated clock over second *R.Reloj* that was weaker and delayed one second. [Conti-NH]
- 800 **MEXICO** XEROK Cd. Juárez, Chih. AUG 4 1136 – Usual program “Laboratorios Camacho” consisting of ranchera music and long promos/ads for health products, e.g. Diadepal capsulas de nopal (cactus pills) for diabetes, as well as vitamins and other wonder products. This program has been around for decades. Heard later at 1200 with national anthem and news. Good signal and alone on the frequency. [Wilkins-CO]
- 820 **MEXICO** XEABCA Mexicali, BC JUL 26 1135 – Segued vocals, occasional “Canal 820 ABC Radio” slogans; no ads or live announcements noted in about 30 minutes of monitoring. Good signal, always surprising for just 3500 watts. Alone on the frequency after WBAP fades away. [Wilkins-CO]
- 850 **CUBA** *R.Cadena Agramonte*, unknown location JUL 30 0800 – Under local WEEI Boston; signature ascending notes of hourly time marker, then music of canned ID. [Conti-NH]
- 850 **CUBA** *R.Reloj*, Nueva Gerona AUG 19 0259 – Under local WEEI Boston; RR Morse code. [Conti-NH]
- 860 **MEXICO** XEMO Tijuana, BC AUG 15 1203 – Ad for upcoming religious event, followed by a three-minute recorded message in Spanish from the Pope; into program “Buenos Dias, Buenas Noticias” at 1206 UTC. Fair with not a lot of competition. [Wilkins-CO]

- 940 **MEXICO** XEQ *Ke Buena*, México, DF JUL 31 0049 – Talk in Spanish, what sounded like program or station promos, “Ke Buena” ID at 0101 into music. Poor to very poor mixing with WCND. Parallel kebuena940.com stream. [Snider-ON]
- 1000 **CUBA** unID AUG 19 0200 – Heavy duty wobbling noise over WMVP and WCMX. Wobbling noise still loud at 0900 UTC. [Conti-NH]
- 1140 **CUBA** *R.Surco*, Morón AUG 19 0300 – Under CBI and WRVA; canned ID. At 0400 now over WRVA and CBI; canned ID and choral national anthem. [Conti-NH]
- 1170 **COLOMBIA** *Caracol Radio*, Cartagena AUG 7 1021 – Caracol ID by man, news items mentioning Bucaramanga and Cali. [Krueger-FL]
- 1170 **MEXICO** XERT *Ke Buena*, Reynosa, Tamps. AUG 7 1012 – Mexi-tunes, male canned slogan often. Some WSOS co-channel. [Krueger-FL]
- 1540 **MEXICO** XESTN *Radio RED*, Monterrey, NL AUG 7 1051 – Two male announcers, those gobierno PSA’s from 1056, ID 1059. Too much 1550 WAMA co-channel splatter from 1100 to tell if there was an anthem spun. Here’s a good account of these PSA things: [www.sandiegouniontribune.com/news/2012/mar/11/public-service-spots-have-radio-listeners](http://www.sandiegouniontribune.com/news/2012/mar/11/public-service-spots-have-radio-listeners). [Krueger-FL]
- 1620 **CUBA** *R.Rebelde*, AUG 1 0353 – Fair signals on top of the frequency with Spanish language music and singing parallel 5025 kHz. Not new but rare and even rarer in summer. [Axelrod-MB] AUG 5 0050 – Latin music into 8:50 time check, “La FM de Rebelde” ID in passing, so not parallel 5025, 1180 which are in sports talk (during beisbol?). What is it about this AM X-band Rebelde outlet which would rather relay the FM network? [Hauser-OK]

CONTRIBUTORS

Shawn M. Axelrod VE4DX1SMA, VEPC4SWL, Winnipeg MB; Icom ICR70, DRAKE R8, 3-ft unamplified box loop, Quantum QX Loop v2.0, 155-ft U-shaped outdoor wire, 100-ft indoor wire run around the basement walls, MFJ 1026 phasing unit.

Bruce Conti WPC1CAT, Nashua NH; WiNRADiO Excalibur, MWDX-5 phasing unit, variable termination SuperLoop antennas 15 x 18-m 60° northeast and 15 x 23-m 180° south.

Harold Frodge, Midland MI; Drake R8B, 185-ft and 60-ft random wires, 125-ft bowtie.

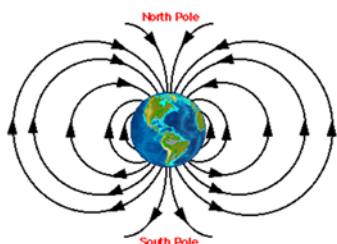
Glenn Hauser, Enid OK; NRD-545 with ALA-330S or north/south not very long wire, DX-398 or PL-880 with internal antenna only, sometimes FRG-7 with ~100-ft east/west longwire.

Terry L. Krueger, Clearwater FL; NRD-535, IC-R75, roof dipole, active loop.

Paul Snider, Welland ON; Icom R75, Pixel RF Pro-1B Loop, MFJ-1020C as tuner.

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

73 and Good DX!



## Geomagnetic Indices

Geomagnetic Summary July 2016

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

Date	Flux	A	K	Space Weather	16	107	8	2	no storms
7/ 1	72	7	1	no storms	17	105	6	2	no storms
2	71	9	4	no storms	18	107	4	1	no storms
3	72	8	3	no storms	19	101	10	5	minor, G1
4	74	7	2	no storms	20	<b>108</b>	<b>23</b>	1	minor, G1
5	72	4	1	no storms	21	100	5	2	no storms
6	77	5	3	no storms	22	90	8	2	no storms
7	83	<b>23</b>	4	minor, G1	23	86	8	2	<b>moderate, R2</b>
8	87	<b>23</b>	2	minor, G1	24	82	14	4	minor, G1, R1
9	92	14	2	no storms	25	74	18	2	no storms
10	94	10	2	no storms	26	74	5	1	no storms
11	95	11	3	no storms	27	72	4	2	no storms
12	92	21	3	minor, G1	28	70	15	3	no storms
13	97	8	2	no storms	29	71	14	1	no storms
14	95	12	2	no storms	30	71	6	1	no storms
15	102	11	3	no storms	7/31	72	3	0	no storms

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

## 2016 DXers Gathering

DXers in AM, FM, and TV, including the NRC, IRCA, WTFDA, and DecaloMania will gather on September 9-11, 2016 in Kansas City, MO. Plan to arrive on Thursday for 3 nights, and we end Sunday at noon.

The Gathering will be held at the Hyatt Place Kansas City Airport, 7600 NW 97th Terrace. To reserve your hotel room, call 1-816-891-0871 x3 and ask for the Group Rate for the National Radio Club, group code G-NRCC. The deadline for hotel reservations is now past, so the \$99.00 rate may no longer be available. Free airport transfers and breakfast each morning.



Registration: \$55 per person which includes a free Friday evening pizza party and Saturday evening banquet. Checks made payable to "National Radio Club" and sent to Ernest J. Wesolowski, 13312 Westwood Lane, Omaha, NE 68144-3543. Please mention which club(s) you belong to for club treasury info. Dale Hamm W5LN and Ernie are your hosts.

On Friday, we'll start with free breakfast in the hotel lobby, then off to tours at 9 a.m., starting with WDAF-TV-4, KMBZ-980, KCSP-620, and possibly KCMO-710. The afternoons will include a tour of the Truman Presidential Library, and there will be a pizza party in the evening.

Saturday morning we'll have some "tech talks" – Mark Durenberger "Square Kilometer Array," Randy Schulze "Nebraska FCC Monitoring Station Grand Island," Nick Hall-Patch "Antenna Alternatives," Mark Durenberger "Remote Control of Antennas," Neil Kazaross "FM Antennas," Dave Fischer/Skip Dabelstein "Beverages & NEBe," and Mike Lantz "Miami Radio" are scheduled at the moment. A group of radio music survey collectors will be joining us to make a presentation in the meeting room on Saturday afternoons.

Saturday night will be the banquet – the menu includes Italian roast beef, chicken marsala, classic twice-baked potatoes, green beans Caesar, peach cobbler, dinner rolls, garden salad, and bottled waters & sodas. The guest speaker will be local newsman Dan Verbeck (KFEQ, KCUR-FM, KMBZ). This will be followed by the NRC business meeting and the usual auction. On Sunday morning we have the Gathering Quiz, and the Gathering ends at noon.

## From the *DX News* archives ....

*Now thanks to Ron Schiller.*

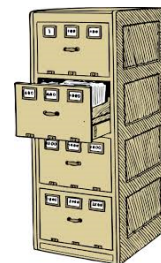
**75 Years Ago** – From the August 19, 1941 issue of *DX News*: The NRC annual convention is upcoming in Buffalo, NY. For those wishing to cross over to Canada (to see the Falls from there), if draft eligible, get permission from your local draft board! Here's the punch line: "Bring some sort of ID for the border crossing!" Convention pictures, if 12 people or more sign up, \$1. A list of 27 stations with first Wed/first Thurs frequency checks came from the Van Nostrand Co.

**50 Years Ago** – From the August 20, 1966 issue of *DX News*: Fairfax, VA DXer Alan Merriman logged Iowa GYs KFJB-1230 & KBUR-1490 among his April loggings & reported 100 new veries for the year. The NRC Convention is in Montreal, Quebec, Canada. No passport needed. Reg fee \$12 Canadian. John Callarman logged OBZ4N-889 Lima, Peru from Texas. KTOH-1490 Lihue, HI heard by Scrimgeour in CA.

**25 Years Ago** – From the August 26, 1991 issue of *DX News*: 48 page issue! Rob Keeney wrote a review of the new Drake R8 receiver, \$979 FOB factory. DXpedition to Vancouver Island, BC with Nick Hall-Patch, Guy Atkins & John Bryant reported considerable TP activity around July 4: Tonga-1017, 3LO-770, KIKI-HI 830, 1YA NZ-756, and Fiji on 3 frequencies. KPGE-1340, Page AZ logged by Rick Carr in IL for GY station record. (KPGE barely & rarely heard here today in UT @ 117 miles away – Ron.) 1340's record DX loggings were made by Esa Hanninen in Finland: XEAA & XECW at over 5,000 miles!

**10 Years Ago** – From the August 14, 2006 issue of *DX News*: One of Canada's oldest stations, CHNS-960 Halifax, NS made the exodus to FM. Sudan-1296 reported by Mark Connelly in MA & Richard Wood-HI. The former checked in with Corsica-1494 & Libya-1251, also. NRC has active members in Brazil, Argentina, South Africa & Nepal among other countries. Bill Hale published a lengthy feature on "Antenna Codes" used in his AM Switch column.

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



# DX Toolbox

Shawn Axelrod, Editor

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Greetings once again from the Heart of the Continent and welcome to the DX Tool Box Column number 84. This will be a smaller than usual column as it is summer and the information is sparse to say the least. Hopefully things will pick up as the DX season starts up in the fall.

## The Way Back Machine:

This time we have some interesting You Tube videos. You Tube has thousands of radio related videos so here are three that I thought might be of interest to club members. If you have a favourite feel free to send in a link and I will put it in a future column.

Historic radio station on the air again: <https://www.youtube.com/watch?v=-FxuVquKP74>

Breaking Through The Iron Curtain - Cold War CIA Radio Monitoring 1960

<https://www.youtube.com/watch?v=0Itqsv9i04I>

Empire of noise: <https://www.youtube.com/watch?v=UIYbKRilztY>

## Bits and Bites from the NRC listserv:

From: Gary DeBock, Puyallup, WA, USA

Re: July 2016 Rockwork 4 International DXpedition

Those who think that the MW band is devoid of much DX in the summer season may be surprised to know that a major International DXpedition was conducted from the Rockwork 4 ocean cliff on the Oregon coast three weeks ago – complete with two famous Japanese MW-DX'er participants.

By taking advantage of the enhanced winter propagation in the southern hemisphere during our summer season, DXers can track down long-range Pacific DX (from the west coast) and enhanced South American DX (from the east coast) by using gray-line propagation this time of the year. Our Rockwork 4 DXpedition team was composed mostly of visitors from outside of the USA, but we managed to work together through various challenges (including one morning with the worst DXpedition weather any of us had ever seen) to have a very memorable DXpedition, with plenty of New Zealand and Pacific island DX. For those interested, a full 8-page report with multiple photos, MP3/ YouTube video links and DU logging information from Tom, Nick and I (along with commentary from Japanese DX'er Satoshi Miyauchi) is posted online at:

[http://www.mediafire.com/download/6z11ls6896zqquh/July\\_2016\\_Rockwork\\_4\\_Ocean\\_Cliff\\_DXpedition.doc](http://www.mediafire.com/download/6z11ls6896zqquh/July_2016_Rockwork_4_Ocean_Cliff_DXpedition.doc)

(Also, you can see the report on the next page, via Phil Bytheway. – DY)

73 for this time Shawn

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

## NRC Reprints

We have many reprints available of articles from past issues of *DX News*. There is a full list of articles available and prices at <http://www.nrcdxas.org/>, just look under "Publications." And there are plenty of antenna and receiver books available there too that collect some of our most important and useful past articles on these topics. If there's too much static (and not enough E-skip) to satisfy the DX bug this summer, come check out what's available.

## The Challenging Crystal Set – Ray Cole – Order Item CCS

This book details a variety of Crystal Set circuits from the simplest to those that are the most sophisticated. It contains complete detailed instructions on building a crystal set that is capable of real DX. In 42 pages, you will be introduced to the circuits that were developed to enhance the performance of crystal sets and techniques that can be used give you many hours of interesting building and listening. This book also contains former NRC Reprint R22 "The Lyonodyne Crystal Wireless Receiver."

Member Price

\$8.95

Non Member Price \$11.95

Order from NRC Headquarters

## July 2016 Rockwork 4 Ocean Cliff DXpedition

### An International Team Gets Full “Exposure” to a Wild New DXing Venue

**Introduction:** In the previous century the outstanding receivers developed by the Japanese Sony and Panasonic companies introduced many of us to the thrill of shortwave listening as teenagers, and created an unusually dedicated DXer hobby group in Japan, as well. The Japanese MW-DXing group has all along been extremely active in the hobby, although the challenge of English communication has somewhat limited their interaction with other DXing groups.

Recently I was highly honored to introduce several modified Ultralight radios to the Japanese DXers, who not only tried these out with great interest, but who also designed and set up modification procedures for Japanese-made equivalents. One of the leaders in this effort was Satoshi Miyauchi, who has already built not only his own 7.5” loopstick Tecsun PL-380 model, but has also built his own 3 inch and 4.25 inch FSL Tecsun PL-380 models as well. When Satoshi-san inquired about the possibility of participating in one of our Rockwork 4 ocean cliff DXpeditions this summer (along with his friend, the famous Japanese MW-DXer Hiroo Nakagawa), I was thrilled to issue the invitation.

The Rockwork 4 turnoff site on Highway 101 is a sweeping ocean view site about 419 feet (158 meters) directly above the Pacific near Manzanita, Oregon. This would be the first time that any international visitors would participate in an ocean cliff DXpedition. Our North American TP-DXing group has always had a great interest in Japanese DX and Japanese DXers, and this would be the first major North American DXpedition to feature MW-DXers from both countries. Canadian Nick Hall-Patch (of Victoria, B.C.) also was highly interested in participating with the Japanese, and as such, our 5-man DXpedition group was composed primarily of DXers from other countries (with only Tom Rothlisberger joining me as repeat American participants).

Although my own DXpedition efforts started on the morning of July 5, Nick and Tom both joined up for the session on Saturday, July 9. We all welcomed our Japanese guests (with a joint dinner at the aptly named “Tsunami” restaurant in Wheeler, Oregon) that evening, and prepared for what we hoped would be a very memorable DXing session early the next morning.

Well, it certainly was very memorable – in the worst possible way. A toxic mix of gale force winds and pounding rain was hammering the ocean cliff site as soon as we arrived for antenna setup at 1015 UTC (0315 local time), which was far and away the worst weather that any of us had ever experienced in an outdoor DXpedition. The sensible Japanese had at least brought suitable rain gear for the session, which was more than the careless North Americans had brought. Tom and I ended up thoroughly drenched and shivering as soon as the antennas were set up, while Nick was partially drenched. A single 15 inch FSL antenna was set up on its PVC base and strapped tightly down to the ocean cliff wall with heavy-duty plastic tie wraps, enabling Satoshi, Hiroo and I to track down some New Zealand, Australian and Tahiti DX with our Ultralight radios despite the vicious weather. Tom’s broadband loop supports absolutely refused to stay upright in the gale force winds, and he eventually had no option other than going outside in the nasty weather to hold one of them in the vertical position manually as he recorded DX on his Perseus-SDR. Nick’s active vertical whip was relatively impervious to the vicious weather, but he was drenched from the knees down because of the pounding rain during its early morning setup.

That entire July 10 session was thoroughly miserable for all of us, but both Satoshi and Hiroo showed great optimism and determination throughout the three-hour struggle, which made all of us highly motivated to do the same!

Fortunately, DX (and weather) on the next (and final) morning would allow our Japanese and Canadian guests to experience the South Pacific DX propagation that this cliff is famous for providing. Satoshi and Hiroo became quick experts in New Zealand “big gun” stations, and Satoshi had a great thrill when 738-Tahiti pounded in at an S9 level on his homemade 3 inch FSL Tecsun PL-380 portable.





Propagation definitely favored New Zealand throughout the week (in one of the most Kiwi-slanted trips that has ever been observed here). Although we had a near-daily blowtorch signal from 738-Tahiti and occasional reception from 1017-Tonga, Australian signals generally had a rough time in the NZ-slanted conditions. Tom and I both agree that overall propagation was down somewhat from the exceptional conditions we enjoyed last summer (when we enjoyed good reception of stations like 558-6WA and 558-Fiji) but the chance to welcome the Japanese DXers made the experience especially memorable, and their skill and determination was an inspiration to us all. Listed below are the DU loggings made with my Ultralight radio + FSL antenna combos, which performed quite well throughout the vicious weather challenges on July 10th (better than the drenched and shivering DXer that created them, actually). The DU loggings made by the other DXers will no doubt exceed these, but we all had great fun together, and are looking forward to the next joint DXpedition (either here, or in Japan).

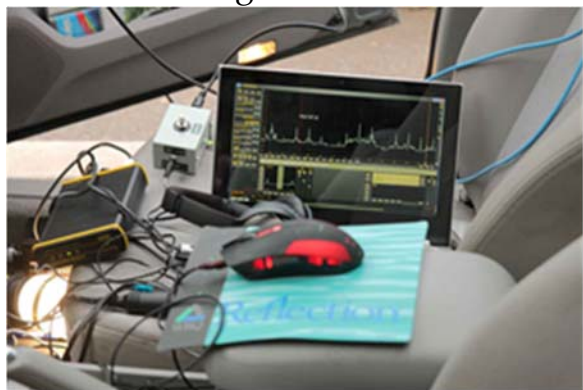
- 531 **AUSTRALIA**, 4KZ, Innisfail, 10 kW. MIA during Kiwi-slanted propagation on most mornings, it made it through at a modest level with its classic oldies format and interval signal during PI fade at 1209 on 7/5.  
<https://app.box.com/s/phtsbdi0tatmxe0qfq677it0emsa3i>
- 531 **NEW ZEALAND**, More FM, Alexandra, 2 kW). Rare low-powered Kiwi station played hard to get, but did show up during a deep PI fade in Kiwi-slanted propagation at 1222 on 7/6. This Kiwi English monolog sounds mostly garbled to me, but the first 5 seconds certainly sounds like "Welcome time to More FM's blog..." (headphones recommended).  
<https://app.box.com/s/q527grcf5ee5q2l402sjiwl3syn8d8g4>
- 531 **NEW ZEALAND**, PI, Auckland, 5 kW. Samoan broadcaster dominated on all 7 days with good signals, although 4KZ and More FM did manage to get through at times. This good-level Samoan female speech on 7/5 was typical.  
<https://app.box.com/s/pe8gr1917b4vn3gccskee5gep6go7cft>
- 567 **NEW ZEALAND**, RNZ, Wellington, 50 kW. Most of this big gun's legendary transoceanic signal seems to have been destroyed along with its old tower (during the recent demolition). It showed up weakly on all 7 days, although always inferior in strength to its 675 parallel.  
<https://app.box.com/s/2mqql3qwk3vxg0ym5iu4tpi5f8ppvvj7>
- 576 **AUSTRALIA**, 2RN, Sydney, 50 kW. Kiwi-slanted propagation hit this RN-network big gun pretty hard, but it did show up with mediocre signals not //657 at 1237 on 7/8.  
<https://app.box.com/s/g39m6brj1dgh6qwx5i7m8xz45ynqu9yy>
- 576 **NEW ZEALAND**, Star, Hamilton, 2.5 kW. The "Dwarf Star" (ex-The Word) was strong enough with its Christian female vocal music to confirm the parallel with 657 at 1244 on 7/11. The first 12 seconds in the recording are 576-Star, and the last 12 seconds are the 657 parallel.  
<https://app.box.com/s/m548dxdvwu1ke99z4e1y2r12prfdf809>
- 585 **NEW ZEALAND**, Radio Ngati Porou, Ruatoria, 2 kW. Wispy male speech was received at 1234 on 7/6 sounding like the usual Maori announcer, but the 603 // apparently started a new song right during the parallel check. Signal nosedived thereafter.
- 594 **NEW ZEALAND**, Rhema, Timaru/Wanganui, 5/2 kW. Modest level Christian music //684 at 1250 on 7/6. Usually a little stronger than the 684 parallel, with no sign of Aussie big gun 3WV during the Kiwi-slanted conditions.  
<https://app.box.com/s/m2d7qbws87z5z1jg8d8n4lvqzmz298p8k>
- 603 **NEW ZEALAND**, Radio Waatea, Auckland, 5 kW. Usually the strongest of the Maori network, this vibrant regular plays a mix of Maori and Motown music. Its strongest signal was on the last day (7/11) at 1218. <https://app.box.com/s/xdxju7jr1flspiln9nz1havsvd8gy85o>
- 657 **NEW ZEALAND**, Star, Wellington/Tauranga, 50/10 kW. Christian hymn broadcaster owned the frequency during the Kiwi-slanted conditions, with this good-level music at 1211 on the last day of 7/11. <https://app.box.com/s/mxti60qwfcc3298c541ak4k5p9s3vqj5>
- 675 **NEW ZEALAND**, RNZ National, Christchurch, 10 kW. The new kingpin of RNZ network transoceanic strength (after the demise of 567's old tower), this relay consistently outperformed its 50 kW parallel. This signal at 1257 on 7/8 was typical.  
<https://app.box.com/s/wx9b9i1dex7mqyrb9b9zgbnk1n3svwew>
- 684 **NEW ZEALAND**, Rhema, Gisborne, 5 kW. Christian contemporary music broadcaster with fairly good signals //594 at 1247 on 7/9; Tony W says that the tower property has been sold and eviction is forthcoming. <https://app.box.com/s/691ddrcehygaiko5pgpll2jp1nu1en91>
- 702 **AUSTRALIA**, 2BL, Sydney, 50 kW. Easily pushing 702-Magic aside whenever it showed up, this Oz big gun was the dominant station on both 7/7 and 7/10. The interview format was much different from Magic's oldie music.  
<https://app.box.com/s/f0qfop5x7ymw1gbyowg65obveuqjwf6m>

- 702 **NEW ZEALAND**, Magic, Auckland, 10 kW. Capable of blistering signals when Kiwi propagation was enhanced, this oldie music broadcaster was the only DU on the frequency on 5 of 7 days. <https://app.box.com/s/gtd8u8zxdwupirycbso99kigyum2ja5c>
- 738 **TAHITI**, Radio Polynesie, Mahina, 20 kW. A real blowtorch on most days, this French-language signal at 1233 on 7/9 was the strongest DU recording made during the trip, and seriously tested the crunch resistance of my Ultralight radio. <https://app.box.com/s/pw2gpfg7vd19b33yz8ag7466y18462t>
- 756 **NEW ZEALAND**, RNZ, Auckland, 10 kW. Pretty good signal with music //675 at 1212 on 7/8, a good demonstration of the cliff's ability to cut down splatter from the 750-Portland pest (50 kW and only 70 miles away). <https://app.box.com/s/qlx6esrtgccrg32pkwqt0yr71suuw52d>
- 765 **NEW ZEALAND**, Radio Kahungunu, Napier-Hastings, 2.5 kW. Once again this low-powered Maori network station acted very much like a Kiwi big gun throughout the week. Maori and Motown music is the norm, as in this recording //603 at 1215 on 7/8. <https://app.box.com/s/p04c5i3fvvpxfw449nbsa2jlmipsh6n>
- 774 **AUSTRALIA**, 3LO, Melbourne, 50 kW. LR Network big gun was strong at 1222 on 7/5 but missing in action under Radio Sport on most days. <https://app.box.com/s/egf89xhr29obvisblm7cb9bzechid62jh>
- 774 **NEW ZEALAND**, Radio Sport, New Plymouth, 5 kW. Not nearly as strong as its 792 parallel, it was hit hard by Seattle splatter on most mornings, and never came up in strength for a decent recording.
- 783 **NEW ZEALAND**, Access Radio, Wellington, 10 kW. Multi-cultural station with varied ethnic programming, this apparent Samoan language music and speech was received at 1241 on 7/7. <https://app.box.com/s/yg4xp9r7er4hyul4jvcpsr5x747vqkf2>
- 792 **NEW ZEALAND**, Radio Sport, Hamilton, 5 kW. Fairly strong on most mornings with its network relay of Fox Sports News, the Yankee-accented English owned the frequency on all 7 days (over the MIA Oz big gun 4RN). <https://app.box.com/s/um0gfok28blvq90n0eeoeuuoq3v5jzzy>
- 828 **AUSTRALIA**, 3GI, Sale, 10 kW. On a couple of occasions this LR network big gun was just strong enough to confirm the parallel with 774, but most often it was in a ghostly mix with a presumed Radio Trackside (which never came up in strength for a decent recording).
- 891 **AUSTRALIA**, 5AN, Adelaide, 50 kW. Another underperforming Oz big gun, it was usually in a threshold-level mix with another DU English station (probably 4TAB).
- 936 **NEW ZEALAND**, Chinese Voice, Auckland, 1 kW. A prime target during enhanced Kiwi propagation, this low-powered ethnic station came through with fairly good-level music and Chinese speech during exceptional propagation at 1243 on 7/6. <https://app.box.com/s/sng6i7c70sqm3e5bpymy3mfy1dbpbfdn>
- 1008 **NEW ZEALAND**, Newstalk ZB, Tauranga, 10 kW. Getting through the 1010 splatter at a modest level //1035 at 1220 on 7/7. Generally not as strong as either the 1035 or 1044 parallel. <https://app.box.com/s/8l5sn7mayuwkzs896lbciw4s1e8738dw>
- 1017 **TONGA**, A3Z, Nuku'alofa, 10 kW. Rushed antenna setup prior to 1130 on 7/9 paid off with a fairly good-level logging of male speech from this station, the only foreign language DU on the frequency. Since A3Z's sign off is usually prior to sunrise enhancement at the cliff, the best chance to track it down is during its late Saturday night transmission, when it typically stays on a little later. <https://app.box.com/s/jz35gv1r8re5ldfqol9h6ux0kd04dea5>
- 1035 **NEW ZEALAND**, Newstalk ZB, Wellington, 20 kW. The flagship relay of this talk radio network had potent signals on most mornings, including this excellent-level discussion concerning NZ real estate at 1222 on 7/8. <https://app.box.com/s/a21xkbboz6pbbqj73lj0ted4ft3fjua>
- 1044 **NEW ZEALAND**, Newstalk ZB, Dunedin, 10 kW. Fairly strong on most mornings with the usual call-in talk program and occasional music //1035. This recording was at 1210 on 7/9. <https://app.box.com/s/z7flaydc0if63v9qhro7deyvp3rno67d>
- 1386 **NEW ZEALAND**, Radio Tarana, Auckland, 10 kW. Hindu music broadcaster pounded in when Kiwi propagation was enhanced (as in this recording at 1246 on 7/6), otherwise it got lost in splatter. <https://app.box.com/s/aaguop8hp57aa38eulommx06tm3l22qw>
- 1503 **NEW ZEALAND**, Radio Sport, Wellington/Christchurch, 5/2.5 kW. Yankee English from the relay of Fox Sports News (//792) was usually audible on this frequency on all 7 days. <https://app.box.com/s/wed793j34pnu0thkulc3w8o7v716gs98>

73 and Good DX, **Gary DeBock** (DXing at the Rockwork 4 ocean cliff near Manzanita, OR, USA), 7.5" loopstick C.Crane Skywave Ultralights (3) + 15" and 17" FSL antennas

From **Tom Rothlisberger**:

**Saturday July 9:** Three of us on the ocean cliffside pullout this morning. It took some time to set up everything as this was a new antenna and configuration for me at the cliffs, and I was planning to experiment with a vactrol for the first time. A major setback occurred when my Win10 notebook refused to recognize the Perseus hardware due to a possibly corrupt driver. To make matters worse



I did not bring the backup MSI Wind U100 that I have been using for years with good results. Note to self: always bring backup. I wound up borrowing Nick's netbook as he did not need it for experiments that morning. So it was 1222 by the time I started recording. Magic 702 was slamming in and 1KW TAB Trackside on 549 was in nicely but briefly. I didn't think the session was as good as what was experienced last year but everything was working and signals were loud at times, usually briefly, before settling back down into the noise. Little high band action but 1503 Radio Sport was in.

**Sunday July 10:** Driving rain and gale force winds were making things miserable. My antenna spreaders blew down time after time. For the last 15 minutes of the opening I was holding one up outside by hand, the other secured to the rock wall by heavy straps.

This turned out to be a morning favoring Australia. 1116 4BC was ruling the band with huge signals; I had Aussies on 702 and 936 instead of NZ stations. The ABC News fanfare was heard on 891 on the half hour and there was audio on 1566, 1611 and 1701. This was the only of the three mornings the whole band was in although not very robust like it was last August. IDing signals is still ongoing.

We were all soaked to the bone when it was over, my Gore-Tex jacket was no match for that storm. Distinguished visiting DXers Hiroo-san and Satoshi-san were still smiling at the end. That's really the important thing, to have fun and overcome adversity. That we heard any stations at all was an added bonus. And we did hear some! We will always remember this morning.

**Monday July 11:** Another mostly New Zealand morning, decent signals but they would fade back down after a minute or two, and something else would become strong elsewhere on the band, one at a time. This made getting parallels for ID purposes difficult. On several frequencies NZ and Australia signals were fighting it out. It was another low band morning. The TAB Trackside affiliate on 1224 (1 KW) was briefly good but almost nothing heard above it except for occasional audio from Radio Sport 1503. 738 Tahiti was slamming in with meter-bending signals. Satoshi-san and Hiroo-san seemed very pleased as this station is considered rare and exotic DX from Japan.

Overall: 657 Star gets the award for strongest and longest lasting DU signal over the three days, beating last year's champions 1035 Newstalk ZB and the no longer potent RNZ 567. I had more wire up this year but the signals were really no better. I failed to find a "sweet spot" with the vactrol for reducing splatter from the Portland powerhouses.

Longwave: DX NDBs were practically non-existent. I am wondering if the antenna configuration made it deaf at LW, or if conditions were really that terrible. Only one DX station, 352 KHz "RG" Nikau, Rarotonga, Cook Islands was noted. 531 PI was also exceedingly weak so I suspect the antenna. I will be changing things again at my next visit to the ocean cliffs to ensure I get more LW action.

73, Tom K7WV

From Nick Hall-Patch:

As promised, a logging or two, and a couple of photos:

- 549 **NEW ZEALAND**, Napier-Hastings, TAB Trackside Radio. Man talking, sounded like announcing a horse race, becoming fair //828 1220 7/9. (NHP)
- 594 **NEW ZEALAND**, Timaru/Wanganui, Star. Light music, poor strength, //909 7/10. (NHP)
- 693 **NEW ZEALAND**, Dunedin, Radio Sport. Poor to fair strength, American sport talk //792 1225 7/9. (NHP)
- 729t **NEW ZEALAND**, Tokorua, Radio New Zealand National. Light Dixieland style music, poor strength, seemed //675 but slightly offset so hard to say for certain. Only there for a minute or two, 1212 7/9. (NHP)
- 747 **JAPAN**, Sapporo, JOIB. Briefly poor and //774, with man in what sounded like Japanese, certainly not DU English, 1136 7/10. (NHP)
- 774 **NEW ZEALAND**, New Plymouth, Radio Sport. Fair to good signal, earlier //792 with American sport talk, bit of electrical noise, unusual for this quiet location, 1227 7/9. (NHP)
- 792 **NEW ZEALAND**, Hamilton, Radio Sport. American sport talk, fair strength in splatter //774 1224 7/9. (NHP)



- 828 **NEW ZEALAND**, Palmerston North, TAB Trackside Radio. Horse race announcer, fading up to good strength with a little splatter, 1223 7/9, earlier IDed by //549. (NHP)
- 1611t **AUSTRALIA**, but who? 1216 7/10. //1629. Not what I would call listenable, but somewhat identifiable DX, could be a preacher, which might be Vision Radio Network, but several sites on each channel. Not heard on other days, so a bit out of the ordinary. (NHP)



[http://www3.telus.net/public/shallpat/rockworks/1611\\_1629parallel\\_20160710\\_1216.wav](http://www3.telus.net/public/shallpat/rockworks/1611_1629parallel_20160710_1216.wav)

(NHP) RFSpace NetSDR, RFSpace SDR-14 running DX Fishbarrel program; AMRAD active 4' whip antenna

From **Satoshi Miyauchi**:

**July 28:** It is just like last week that we had been there! All those memories are good to remember, including the very precious "welcoming" weather on 10th morning! It just showed that even for short period of stay, at least TWO sessions might be required....

DXing results are of course something that we really appreciate out of the DXpedition, but simply the fact that we could meet up and DXing together means a lot! And also both Hiroo and me were very much impressed by all of your efforts even in the middle of darkness and especially in the stormy weather. As for us also, it was the worst weather we ever had on the day of DXpedition! So in many ways we could get "first ever" in this joint DXpedition! We hope that we all can meet sometime in the future either at the cliff, Cliff in Japan, or any other location in the world! Thanking you once again for your hospitality, and actual support on equipments that we could use throughout the DXpedition!

Best 73, **Satoshi Miyauchi**

#### **DXpedition Videos:**

First Day Tour (July 5, FSL antenna setup). <http://www.youtube.com/watch?v=MBeoUF0ruvQ>  
 July 9 Antenna Setup (Tom, Nick and Gary). <http://www.youtube.com/watch?v=V8Kn2vrBzK0>  
 Japanese DXers Arrive at Rockwork 4 (July 9). <http://www.youtube.com/watch?v=I4cz1otmP3o>  
 The Session from Hell (July 10). <http://www.youtube.com/watch?v=Lw9k6E08eME>  
 Final Day Success (July 11). [http://www.youtube.com/watch?v=cjda-kO\\_oQE](http://www.youtube.com/watch?v=cjda-kO_oQE)

(Thanks to Phil Bytheway for editing the report!)

## **U.S. NEW STATION CONSTRUCTION PERMITS – STATUS REPORT**

As of August 19, 2016, the FCC online database shows **15** outstanding CPs for new stations.

**Two** of these CPs applied for their "license-to-cover" (LTC) some time ago, and are in fact broadcasting on the air, but their final grant of an operating license is being held up. Stations in this category are often heard on the air (sometimes with "program test authority" or PTA) before final licensing is granted.

1380 KVSM Santa Maria CA (U2 650/500) – Applied for LTC 11/4/2013; granted PTA 12/24/2013.

1490 KHTC Malmstrom AFB MT (U1 1000/580) – Applied for LTC 1/20/2011.

The following **11** CPs are within their original 3-year window. Permittees must complete construction and submit an LTC application within three years of the CP being granted (and any appeals of the grant being resolved).

1040 -- Sanger CA (U4 250/1000), expires 12/3/2016.

860 -- Black Hawk SD (U7 50000/350 (ch 22000), expires 2/27/2017.

1340 KSDG Fairbanks AK (U1 1000/1000), expires 4/8/2017.

1020 -- Blue Diamond NV (U4 5000/250), expires 7/26/2017.

1200 -- Chugiak AK (U1 50000/9600), expires 1/28/2018.

1490 -- Bozeman MT (U1 1000/900), expires 1/28/2018.

1580 KWLO Springville UT (U1 10000/570), expires 3/23/2018.

1210 -- Pine River MN (U2 5500/250), expires 4/23/2018.

780 -- Draper UT (U4 1000/250), expires 6/9/2018.

1540 KENT Enterprise NV (U7 10000/270 (ch 3700)), expires 11/6/2018.

750 -- Lansing NY (U4 1200/720), expires 4/29/2019.

The following **2** CPs have expired and are presumably being maintained in the database due to pending appeals or other administrative review procedures: KUCU-1060 Farmington NM, and WWNH-1340 Madbury NH.



# Unreported Domestic Stations

Out of some 4,759 (depending on how you count) active full-power AM stations (LPRTs and TIS/HAR not included) in the United States and Canada, all but 439 have been reported to DDXD at least once since Volume 67 (1999-2000). As you get ready for the upcoming DX season, why not try to log and report at least one of these stations to DDXD. It could help your fellow members hear a rare station – and will definitely give them something new to read about!

Here is the “unreported” list through the current issue:

550	KNUI-HI		KALE-WA		WRPM-MS		WKDX-NC
560	KVOK-AK	970	WFQY-MS	1180	WGAB-IN		WNTT-TN
	CBDN-YT		WMPW-VA	1190	WPSP-FL		WLQM-VA
570	CKWL-BC	980	WKLF-AL	1210	KZOO-HI	1260	KCCB-AR
580	WLVA-VA		KNTR-AZ	1220	WABF-AL		KBHC-AR
590	CFTK-BC		KEYQ-CA		WOTS-FL		WFTW-FL
610	WVTJ-FL		WTOT-FL		WSRQ-FL		WCSA-MS
	CKRW-YT		WDYN-GA		WZOT-GA		WKXR-NC
630	KLEA-NM		WGWM-KY		KQMG-IA		WHYM-SC
670	WYLS-AL	990	WISK-GA		WOEG-MS		WCLC-TN
680	KBRW-AK		WRFM-IN	1230	WKWL-AL		WWIS-WI
	WGES-FL		WABO-MS		KATO-AZ	1270	WGSV-AL
	KBRD-WA		WBTE-NC		WAYX-GA		WIJD-AL
690	KPET-TX		KTHH-OR		KLIC-LA		WNOG-FL
700	WZOO-NC		KZZB-TX		WSLO-LA		WYXC-GA
720	KOTZ-AK		KAML-TX		WSSO-MS		KNDI-HI
740	WMSP-AL		CBDB-YT		KLCB-MT		WMLC-MS
	KCIK-HI	1000	WKVG-KY		KRYN-OR		KIHK-MO
760	KGU-HI		KSTA-TX		KCUP-OR		WMIZ-NJ
790	WPNN-FL	1010	WCSI-IN		WMLR-TN		WHGS-SC
800	WMGY-AL		KDLA-LA		WAKI-TN		KEPS-TX
	KINY-AK		WCKW-LA		KCOH-TX	1280	WPID-AL
	KAGH-AR		WUKZ-VA		KDYM-WA		WOPP-AL
	KVOM-AR	1020	KDYK-WA		CHFB-MN		WYEA-AL
	WPEL-PA	1040	KLHT-HI		CFFB-NU		KDMS-AR
810	KYTY-TX	1050	WJSB-FL	1240	WMGJ-AL		KAZA-CA
820	WSWI-IN		WJCM-FL		WJLX-AL		KBMO-MN
830	KSDP-AK		WTWG-MS		KNSN-CA		WJBI-MS
	WACC-FL		WBUT-PA		WBGC-FL		WTYL-MS
840	CFCW-AB		WAMN-WV		WKIQ-FL		KALM-MO
850	WLRC-MS	1060	KFOY-NV		WLAG-GA	1300	WBSA-AL
860	KWRF-AR		WGSB-NC		WWNS-GA		WTLS-AL
	KFST-TX		WCOK-NC		KEWE-HI		KACI-OR
	CFPR-BC	1070	KBCL-LA		WEBQ-IL	1310	KZYP-AR
	CHAK-NT	1080	KYMO-MO		WSFC-KY		KFVR-CA
870	CFBV-BC	1090	KRKE-NM		KASO-LA		WPCH-GA
890	KMJE-CA	1110	KAGV-AK		KANE-LA		WDPN-OH
	WJTP-GA		WCBR-KY	2	WMIS-MS	1320	KSCR-OR
900	WOZK-AL		WOMN-LA		WAVN-MS		KXRO-WA
	KZPA-AK		KTTP-LA		KSAM-MT	1330	KXXJ-AK
910	KBLG-MT		WMUX-WV		KBEL-OK		KJPR-CA
	KURY-OR	1120	WHOG-AL		KRJW-OR		WLBB-GA
920	WEZZ-AL		KLIM-CO		KRDM-OR		WMOR-KY
	WPTL-NC	1130	WQFX-MS		WBAX-PA		WNIX-MS
930	KTKN-AK		WEDI-OH		KVLF-TX		WHAZ-NY
	WYUS-DE	1140	KSLD-AK		KXYL-TX		KGLD-TX
	KBAI-WA		KVLI-CA		KDOK-TX		WITM-VA
	KYAK-WA		WMMG-KY		KXOX-TX		KGRG-WA
940	KDIL-ID		WSAO-MS		KBUP-WA	1340	WSBM-AL
950	KOZE-ID	1150	WXKO-GA		CKMK-BC		WMHZ-AL
	KRRP-LA		WONG-MS		CJOR-BC		WJAM-AL
	WHSY-MS		WDTM-TN		CFNI-BC		KBTA-AR
960	WBMC-TN		KBPO-TX		CJAR-MB		KQJS-AR
	KIMP-TX	1170	WQHC-AL	1250	WSRA-GA		KCAT-AR

	WPBR-FL		KRPL-ID		WXVW-IN		WCOR-TN
	WTYS-FL		WEOA-IN		WTCO-KY		KNEL-TX
	WGAU-GA		WCYN-KY		KNOC-LA		KWMC-TX
	WOKS-GA		WBIP-MS		WCJU-MS		KHVL-TX
	WBIW-IN		WFOR-MS		KWPM-MO		KLNT-TX
	WKCB-KY		WJQS-MS		KYLW-MT		KPLT-TX
	WAML-MS		WMXF-NC		KGRZ-MT		KYZS-TX
	KLID-MO		KFJL-OR		WFBX-NC		KJNT-WY
	KYWL-MT		KJDY-OR		WJER-OH	1500	WVSM-AL
	KYLT-MT		KBCH-OR		WLAR-TN		WKAX-AL
	KHUB-NE		WWGE-PA		KBEN-TX		WQMS-MS
	WPOL-NC		WGAP-TN		KMHT-TX		WSMX-NC
	WOUB-OH		KRUN-TX		KNET-TX		WDEB-TN
	KBNW-OR		KBYG-TX		WLUX-WV		KANI-TX
	KRBA-TX		KEBE-TX	1460	KCNR-CA	1510	WJKN-MI
	KTMP-UT		KLCK-WA		WZEP-FL		KCTX-TX
	KUOW-WA		KRSC-WA		WELZ-MS		KSTV-TX
	KYSP-WA		WBTH-WV		WDOG-SC	1520	WTLM-AL
	WMON-WV		CHNL1-BC		WEEN-TN		WRCI-MI
	WLDY-WI	1410	WZZA-AL	1470	WPNS-AL		WINW-OH
	KYCN-WY		WYIS-GA		WMGG-FL		WKMG-SC
	CFYK-NT		KDBS-LA		WXAG-GA		KQQB-TX
1350	WELB-AL		WPCC-SC		WCHJ-MS	1530	WASC-SC
	WRKM-TN		WBBX-TN		KFMZ-MO		WLAK-WI
1360	KFFA-AR		KHCH-TX		KMAL-MO	1540	WKDG-AL
	WGJK-GA		KZEY-TX		CJVB-BC		WMYJ-IN
	WFFF-MS		KITE-TX	1480	WKGC-FL	1550	WOCC-IN
	WMOV-WV	1420	WBEC-MA		WUKB-KY		WLTI-IN
1370	KAWW-AR		WQBC-MS		KCHL-TX		WUCO-KY
	KTPA-AR		WMYN-NC		KNTB-WA		KCOM-TX
	KGEN-CA		KFYN-TX		KBMS-WA		KWBC-TX
	WZTA-FL		WXGM-VA	1490	WFZX-AL	1560	WSEZ-IN
	WTKY-KY		KRIZ-WA		WIRB-AL		WBOL-TN
	KAST-OR	1430	WRMG-AL		WHBB-AL		KNGR-TX
	KWNC-WA		KKNI-AK		KWXT-AR		KHBR-TX
1380	WRAB-AL		KHBM-AR		KXAR-AR	1570	WOKC-FL
	WGYV-AL		WATB-GA		KOTN-AR		KUKU-HI
	WVSA-AL		WXAM-KY		KSPE-CA		KMCD-IA
	WWRF-FL		WCWC-KY		KLZN-CA		WABL-LA
	WNLA-MS		KMRC-LA		WMBM-FL		WIZR-MS
	WAGS-SC		KKOZ-MO		WCHM-GA		WLEE-MS
1390	KDQN-AR		KAOL-MO		WKUN-GA		KPYK-TX
	WFHT-FL		WDJS-NC		WSNT-GA	1580	WNPZ-TN
	WTNL-GA		KROO-TX		WSYL-GA		KIRT-TX
	WANY-KY	1440	WGMI-GA		WFXY-KY		KTLU-TX
	KFRA-LA		WSEL-MS		WOMI-KY	1590	KVTR-CA
	KBBO-WA		WBLA-NC		WSJP-KY		KDEX-MO
1400	WWTM-AL		WJBS-SC		KRUS-LA		WBHN-NC
	WXAL-AL	1450	WZGX-AL		WCLD-MS		WVOE-NC
	KELD-AR		WCOX-AL		WHOC-MS		WABV-SC
	KIHH-CA		WDYG-AL		KBSR-MT		KDAE-TX
	KKJL-CA		KDAP-AZ		KHTC-MT	1600	KTAP-CA
	WPRY-FL		KNHD-AR		WMOA-OH		KTTN-MO
	WAWO-GA		WSTU-FL		KBIX-OK		KNCV-NE
	WCOH-GA		WTAL-FL		WTQS-SC		WATX-TN
	WSEG-GA		WGPC-GA		WGCD-SC		

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**LONDON (August 9, 2016)** – Bell Media Radio announced today it will honour the history of CKSL-AM, **Funny 1410** before it permanently ends operations and goes off the airwaves on **Sunday, Aug. 14 at 12 midnight**. The station has provided music, news, sports, and entertainment to listeners across London and the surrounding region for nearly 60 years. “We’d like to thank listeners and advertisers for their loyalty to CKSL-AM over many successful years, and for allowing us to play an integral role in the community,” said Don Mumford, Vice-President and General Manager, Radio and Local TV, Bell Media.

Throughout the day on **Thursday, Aug. 10** and **Friday, Aug. 11**, local news/talk station 1290 CJBK London will deliver special tribute programming celebrating the legacy of CKSL-AM. The tributes include a rich lineup of CKSL’s legendary personalities, including Peter Garland, Rich Greven, Elaine Sawyer, Derek Botten, “Ambassador of Funny” Mike Nabuurs, and more. The celebration continues Friday evening on CTV NEWS AT SIX with a special report from Videographer Nick Paparella.

CKSL-AM commenced broadcasting on June 24, 1956. Founded by London Broadcasters Ltd., which operated the station until selling to a succession of owners in 1989, CKSL became London’s second radio station. CKSL played an important role in the community while adopting numerous formats throughout the years, ranging from contemporary hits to nostalgia, news/talk, and entertainment. CKSL-AM most recently provided comedy programming 24/7 under the **Funny 1410** brand.

A mainstay for listeners, and at times leading the market in share of tuning, CKSL-AM introduced numerous on-air personalities who became household names: Bob MacAdorey was the station’s first “Morning Man”, followed by celebrities such as Pete James, Bill Brady, Peter Garland, Rich Greven, Jim Craig, Mitch O’Connor, Derek Botten, Jim Chapman, and current morning show host on Today’s Country BX93, Dave Collins, who co-hosted mornings on CKSL with Jackie Gauthier. Other notable members of the CKSL legacy were News Directors Tom Dalby, Al Gibson, and George Gordon, as well as former Vice-President and General Manager, Gord Hume, who is best recognized for his years as a sitting London city councillor and member of Board of Control. For a continued dose of all comedy programming, all the time, local listeners can turn to Bell Media Radio’s Funny820.com.

## NOAA Space Weather Outlook

Issued August 15, 2016 – For the period August 15-September 10, 2016

Now at <http://www.swpc.noaa.gov/products/weekly-highlights-and-27-day-forecast>

Solar activity is expected to be very low with a chance for C-class activity through the outlook period.

No proton events are expected at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit is expected to be at high levels on 15, 19-23, 26-28, 31 Aug and 01-10 Sep. Normal to moderate levels are expected for the remainder of the outlook period.

Geomagnetic field activity is expected to be at G1 (Minor) storm levels on 16 and 30-31 Aug due to recurrent CH HSS activity. Unsettled to active levels are expected on 15, 17-19, 24-25 Aug and 01-08 Sep, all due to recurrent CH HSS activity. Mostly quiet conditions are expected for the remainder of the outlook period.

### ABBREVIATIONS USED IN DDXD

// – Parallel to. :00 – On the hour. **AC** – Adult contemporary. **AP** – Associated Press. **BBD** – Big band. **C&W** – Country and western. **CCR** – Contemporary Christian radio. **CHR** – Contemporary hit radio. **CID** – Code ID. **CL** – Call letters. **COL** – City of license. **EE** – English. **EZL** – Easy listening. **FF** – French. **GOS** – Gospel. **Hi** – A joke; the ham radio equivalent of :-). **LID** – Legal ID (i.e., CL and COL near the ToH). **LSR** – Local sunrise. **LSS** – Local sunset. **NBA** – National Basketball Association. **NFL** – National Football League. **NHL** – National Hockey League. **NPR** – National Public Radio. **OC** – Open carrier. **OLD** – Oldies. **PSRA** – Pre-sunrise authority. **PSSA** – Post-sunset authority. **QRM** – Man-made interference (power lines, other stations, etc.). **QRN** – Natural interference (lightning, etc.). **QTH** – Location. **REL** – Religious. **ROK** – Rock’n’roll. **RS** – Regular schedule. **\$** – Stereo. **SID** – Singing ID/jingle. **SRS** – Sunrise skip. **SS** – Spanish. **SSB** – “The Star-Spangled Banner.” **SSS** – Sunset skip. **TC** – Time check. **ToH** – Top of the hour. **TT** – Test tones. **UC** – Urban contemporary. **VID** – Voice ID. **WW1** – Westwood One.

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