

# DX News

*Serving DX'ers since 1933*



Volume 80, No. 30 • September 16, 2013 • (ISSN 0737-1639)

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**AM Radio Log, 34th Edition:** The 34th Edition of the NRC *AM Radio Log* is now available. The *Log* is, of course, a complete list of AM radio stations in the United States and Canada, with 285 pages of data and cross references and 18 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. Over 8,000 updates have been made since last year's 33rd Edition of the log!

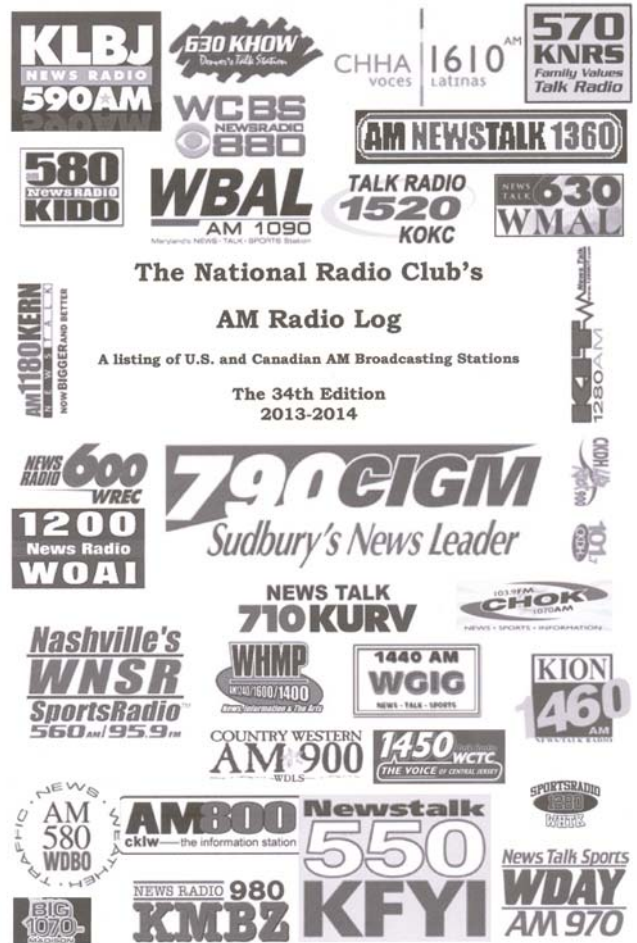
In addition to the basic information – call letters, power, format, networks, schedule, station addresses, and so forth – for each station, additional references include call letters of FM simulcasts with the AM Stations listing, listings of regional groups of stations in the groups section (separate 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 AM broadcasters.

Order from NRC Publications – P.O. Box 473251 – Aurora CO 80047-3251. Price is \$22.95 for regular mail, \$26.80 for Priority Mail to U.S. members; \$28.95 for regular mail or \$32.80 for Priority Mail to U.S. non-members, \$35.00 to Canada, and \$39.00 to overseas. Or order online via PayPal on [www.nrcdxas.org](http://www.nrcdxas.org).

**NRC Antenna Pattern Book:** 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.

Prices are the same as for the *AM Radio Log* – order the same way.



**QSL Revival Committee:** Kraig Krist has been designing some attractive e-QSLs that stations can use to verify reports. It's a great idea that has a lot of potential. See page 2 inside for more details.

**Perseus Auction:** At this year's convention, John Callarman donated his fresh-out-of-the-box Perseus SDR to the club, to be auctioned for the benefit of the NRC. Bids will be accepted until November 1. For details see page 24.

**NRC/WTFDA Convention 2014:** With everyone now (hopefully) recovered from this year's great convention, it's time to start thinking about next year. If you're interested in learning what's involved in hosting the NRC/WTFDA convention, please check in with Ernie Wesolowski, either by e-mail at [NEErnieW@YAHOO.COM](mailto:NEErnieW@YAHOO.COM) or send him a note at 13312 Westwood Ln. Omaha, NE 68144. Ernie can help you evaluate the practical aspects of

hosting a convention so that if you decide to make a formal bid you'll have what you need to make that decision.

**From the Publisher:** In two weeks we'll be back with the start of the weekly issues. In the meantime, there's a lot in this final issue of Volume 80 for everyone to chew on. A special thanks to Phil Bytheway for his work in assembling the Oregon Ultralight DXpedition articles written by Gary DeBock.

The weather is getting cooler, Friday night "special high school football power authorizations" are underway, and a new DX season is upon us. Let's fill up the early issues of Volume 81 with some good stuff!

**Unreported DDXD Stations:** In this issue, two more stations (WFER-1230 and KVWC-1490) were reported for the first time in DDXD this millennium, leaving 565 stations (out of a total 4843) U.S. and Canadian stations (not counting TIS and LPRT stations) not reported to DDXD since at least Volume 67 (1999-2000).

A total of 1652 different stations were reported to DDXD during Volume 80, or more than 34 percent of all the stations on the air. Not bad. Can we do better next year?

VOL. 81 DX NEWS PUBLISHING SCHEDULE					
No	In By	Date	No	In By	Date
1	Sept. 20	Sept. 30	16	Jan. 10	Jan. 20
2	Sept. 27	Oct. 7	17	Jan. 17	Jan. 27
3	Oct. 4	Oct. 14	18	Jan. 24	Feb. 3
4	Oct. 11	Oct. 21	19	Jan. 31	Feb. 10
5	Oct. 18	Oct. 28	20	Feb. 7	Feb. 17
6	Oct. 25	Nov. 4	21	Feb. 14	Feb. 24
7	Nov. 1	Nov. 11	22	Feb. 21	Mar. 3
8	Nov. 8	Nov. 18	23	Mar. 7	Mar. 17
9	Nov. 15	Nov. 25	24	Mar. 21	Mar. 31
10	Nov. 22	Dec. 2	25	Apr. 11	Apr. 21
11	Nov. 29	Dec. 9	26	May 2	May 12
12	Dec. 6	Dec. 16	27	May 30	June 9
13	Dec. 13	Dec. 23	28	June 27	July 7
14	Dec. 27	Jan. 6	29	Aug. 1	Aug. 11
15	Jan. 3	Jan. 13	30	Sept. 5	Sept. 15

# QSL REVIVAL COMMITTEE

Kraig Krist has these announcements from the QSL Revival Committee:

1. In cooperation with Ray Thomas, WIOO/WEEO Program Director, I've created an eQSL for WIOO to use. If a distant listener receives WIOO, Carlisle, PA 1000 kHz, sends a detailed reception report to Mr. Thomas at [wioo@pa.net](mailto:wioo@pa.net) and politely requests an eQSL they will receive a WIOO QSL similar to the one below.

2. In cooperation with Daniel Clark, Director of Operations, I've created an eQSL for WILB to use. If a distant listener receives WILB, Canton, OH 1060 kHz, sends a detailed reception report to Mr. Clark at [dclark@livingbreadradio.com](mailto:dclark@livingbreadradio.com) and politely requests an eQSL they will receive a WILB QSL similar to the one below.

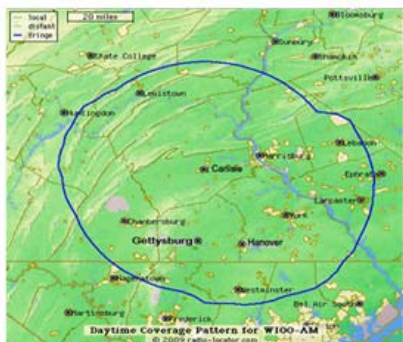
More info: Kraig's at [kg4lac@yahoo.com](mailto:kg4lac@yahoo.com).

*WILB Canton, OH  
Confirming Reception*



*WIOO Carlisle, PA  
Confirming Reception*

Ray Thomas, WIOO/WEEO Program Director, confirms Kraig Krist, Manassas, VA, received WIOO AM 1000 on August 18, 2013, 7:14 pm to 7:55 pm EDT.



Thanks for listening.  
Tune in again.



Dan Clark, WILB Director of Operations, confirms Kraig Krist, Manassas, VA, received WILB AM 1060 on August 25, 2013, 7:55 pm to 8:30 pm EDT.



Thanks for listening.  
Tune in again.

# AM Switch

Info to David Yocis – 1245 13th St. NW #105, Washington DC 20005 – NRCDXNews@gmail.com

Let's begin, as usual, with the latest AM station news from the FCC:



## CALL LETTER CHANGES

- 980 KBBO WA **Selah** – Call change to KTCR (8/27).  
 1200 WINK FL **Pine Island Center** – Call change to WJUA “Juan” (9/3).  
 1340 WALH GA **Mountain City** – Call change to WELG (silent) (8/29).  
 1370 WHYP PA **Corry** – Call change (back) to WWCB (8/30); had these calls until 3 years ago.  
 1390 KTCR WA **Yakima** – Call change to KBBO (8/27).

## NEW STATION WATCH

### *New Stations Moving Towards the Air*

- 1240 KRJW OR **Altamont** – Applies for license to cover CP for new station, U1 1000/1000.

### *New Construction Permits Granted*

- 1020 CP NV **Blue Diamond** – New station CP granted, U4 5000/250 at 36-01-56/115-22-44.

### *Construction Permits Expired/Cancelled*

- 1250 KACE NV **Mesquite** – CP for new station has expired and is deleted.  
 1450 CP NM **Flora Vista** – CP for new station has expired and is deleted.  
 1490 WSCE PA **Lemont** – CP for new station cancelled at permittee's request.

### *Applications Dismissed*

- 1230 App HI **Millani Town** – Application dismissed for new station with U1 1000/1000.

## CHANGES TO EXISTING STATIONS

### *Construction Permits On the Air*

- 1230 KYPA CA **Los Angeles** – CP for site 34-05-08/118-15-24 is on the air, stays U1 1000/1000.

### *Construction Permits Built, Moving to Final Licensing*

- 740 WDGY WI **Hudson** – Granted program test authority for CP for D3 5000.  
 1230 WAYX GA **Waycross** – Applies for license to cover CP to relocate to a new site.  
 1370 KRAC CA **Quincy** – Applies for license to cover CP for U4 4000/200, moving to Red Bluff.  
 1430 WCWC KY **Williamsburg** – Applies for license to cover CP for U1 4600/31 from new site.  
 1470 WCLA GA **Claxton** – Applies for license to cover CP for U1 1000/170 from new site.  
 1480 KTHS AR **Berryville** – Applies for license to cover CP to change CoL to Green Forest AR.  
 1530 WLWB WI **New Holstein** – Applies for license to cover CP for D1 350 from new site.

### *New Construction Permits Granted*

- 600 WKYH KY **Paintsville** – Granted CP for U1 4500/40 from a new site.  
 660 WORL FL **Altamonte Springs** – Granted CP for U4 3500/1000.  
 1160 WIWA FL **St. Cloud** – Granted CP for U4 14000/500.  
 1460 WEEN TN **Lafayette** – Granted CP for U1 1100/119.  
 1470 WKCK PR **Orocovis** – Granted CP for U1 2400/3700.  
 1510 KLLB UT **West Jordan** – Granted CP for U1 10000/26.

### *Applications for New Construction Permits*

- 970 KNWZ CA **Coachella** – Applies for U4 5000/430 (now U4 5000/1000), corrects coordinates to 33-41-12/116-09-28.  
 1170 WDEK SC **Lexington** – Applies for D1 10000 (ch 3400) (now D1 10000 (ch 2500)) from new tower (33-58-25/81-08-59).  
 1470 WBCR TN **Alcoa** – Applies for U1 1000/77 (now U1 956/82), new site (35-46-04/84-00-57).  
 1530 KQSP MN **Shakopee** – Applies for D4 24000 (ch 17000) (now U4 8600/10) from new site diplexed with WLOL-1330 (44-47-02/93-20-38).  
 1590 WXRF PR **Guayama** – Applies for new site 17-57-13/66-06-51, remaining U1 1000/1000.

### *Construction Permits Expiring*

- 820 KWDP OR **Waldport** – CP for U1 5000/15 expired unbuilt; remains U1 1000/15.

### *Applications for Construction Permits Dismissed*

- 590 WAFC FL **Clewiston** – Application for U4 5000/5000, CoL to Cape Coral FL dismissed; station will remain in Clewiston with U1 930/470.



STATIONS LEAVING (AND NOT LEAVING) THE AIR

1020	WSBX	GA	<b>Ochlocknee</b> – FCC believes the station has been silent since 2/25/2012 and wants evidence to the contrary, otherwise the license will be cancelled.
1440	KELG	TX	<b>Manor</b> – After license was cancelled, station filed a (late) application to renew its license and an application for an STA to resume broadcasting; station owner has been very ill and no one remembered to file the license renewal.
1450	WCOX	AL	<b>Camden</b> – License was cancelled and then un-cancelled, and now license renewal has been granted – so this one is now fully back among the living.
1540	WBRY	TN	<b>Woodbury</b> – License cancelled in August 2012; applies for STA to resume broadcasting while FCC continues to consider license renewal.
1560	KTXZ	TX	<b>West Lake Hills</b> – Same as (co-owned) KELG-1440.
1600	KOKE	TX	<b>Pflugerville</b> – Same as (co-owned) KELG-1440.

SPECIAL TEMPORARY AUTHORITY (STA)

570	WMCA	NY	<b>New York</b> – Operating with STA for U1 1250/1250, has almost finished rebuilding after Hurricane Sandy and granted new STA to operate licensed U3 5000/5000 before pattern proofs are complete.
730	WWTK	FL	<b>Lake Placid</b> – Granted STA to operate with pattern at variance during antenna system work.
820	WNYC	NY	<b>New York</b> – Operating with STA for U1 2500/250, has almost finished rebuilding after Hurricane Sandy and granted new STA to operate licensed U4 10000/1000 before pattern proofs are complete.
860	KKAT	UT	<b>Salt Lake City</b> – Granted STA for U1 200/200, day transmitter burned up.
1260	WGVM	MS	<b>Greenville</b> – Granted STA for U1 1000/32, main transmitter died.
1380	WBTK	VA	<b>Richmond</b> – Granted STA for U1 2900/1250, lost a tower to bad weather.
1410	WIHM	IL	<b>Taylorville</b> – Granted STA for U1 500/63 so transmitter won't overheat following failure of air conditioning system at transmitter site.
1480	WEEO	PA	<b>Shippensburg</b> – Granted STA for U1 406/9 from temporary mast.
1680	WPRR	MI	<b>Ada</b> – Granted STA for U1 680/680, transmitter problems.

Applications to extend existing STAs were received from WETC-540 Wendell-Zebulon NC (pattern out of tolerance or reduced power, unspecified); WSVG-790 Mount Jackson VA (U1 500/14); WEEL-850 Boston MA (pattern out of tolerance); WRFM-990 Muncie IN (U1 62/1); WLIB-1190 New York NY (U3 10000/10000 using licensed day pattern); WGDL-1200 Lares PR (U1 1000/1000); KAKC-1300 Tulsa OK (U1 1250/250); WTTL-1310 Madisonville KY (U1 1500/125); KRIZ-1420 Renton WA (alternate site); KKMP-1440 Garapan-Saipan, Northern Marianas Islands (U1 200/200 from a temporary antenna); KOKC-1520 Oklahoma City OK (night pattern at variance or with reduced power); and WVZN-1580 Columbia PA (emergency longwire antenna at 40-01-28/76-28-31).

Applications to extend existing STAs were received from and granted to WQNO-690 New Orleans LA (U1 2500/1250 from temporary antenna); and KNTH-1070 Houston TX (pattern out of tolerance).

Previously reported applications to extend STAs were granted to WETC-540 Wendell-Zebulon NC, WGES-680 St. Petersburg FL, KNUS-710 Denver CO, WSGW-790 Saginaw MI, KPAM-860 Troutdale OR, WINZ-940 Miami FL, WELI-960 New Haven CT, KZZB-990 Beaumont TX, KNED-1150 McAlester OK, WPSP-1190 Royal Palm Beach FL, KLOA-1240 Ridgecrest CA, WNIX-1330 Greenville MS, WFNN-1330 Erie PA, WYRD-1330 Greenville SC, KRMD-1340 Shreveport LA, WYOS-1360 Binghamton NY, KOTA-1380 Rapid City SD, WLQR-1470 Toledo OH, KRHW-1520 Sikeston MO, WOBX-1530 Wanchese NC, WCGO-1590 Evanston IL, and WPVL-1590 Platteville WI.

Previously reported applications to extend STAs were denied to KAKC-1300 Tulsa OK, WMTE-1340 Manistee MI, and KWRM-1370 Corona CA.

SILENT STA

Formerly silent stations back on the air:

1300	WBOW	IN	<b>Terre Haute</b> – Silent station (since 7/19) returned to the air with STA 8/28.
1400	WLYY	TN	<b>Copperhill</b> – Silent station (since 9/18/12) returned to the air 8/30.
1430	KWAP	AK	<b>Wasilla</b> – Silent station (since 9/9/12) returned to the air 8/7.
1550	WAZX	GA	<b>Smyrna</b> – Silent station (since 9/3/12) returned to the air 9/2.
1580	WPJK	SC	<b>Orangeburg</b> – Silent station (since 9/2/12) returned to the air 8/1.

Newly silent stations:

730	WUMP	AL	<b>Madison</b> – Silent 8/25 with transmitter failure.
910	KWDZ	UT	<b>Salt Lake City</b> – Silent 8/17 pending sale of this R. Disney station.
1310	KBOK	AR	<b>Malvern</b> – Silent 8/15 pending completion of sale, relocation of studio.
1590	WXRF	PR	<b>Guayama</b> – Silent 9/15 pending station sale.

Formerly silent stations back on the air and now silent again:

- 1300 WKXM AL Winfield** – Silent station (since 8/1/2012) returned to the air 6/24, silent again 6/27 with transmitter difficulties.
- 1480 WTKD AL Mobile** – Silent station (since 12/12/2012) returned to the air 8/16, silent again 8/19 with continued financial problems.

#### COORDINATE CORRECTION

- 810 WGY NY Schenectady** – Applies for CP to correct coordinates to 42-47-32/74-00-44.
- 900 KNUI HI Kahului** – Applies for license to cover CP to correct coordinates.
- 1080 KGVY AZ Green Valley** – CP to correct coordinates to 31-55-45/110-59-47 is on the air.
- 1240 WCBY MI Cheboygan** – CP to correct coordinates to 45-39-30/84-29-24 is on the air.
- WATT MI Cadillac** – CP to correct coordinates to 44-13-27/85-24-00 is on the air.
- 1360 WELR AL Roanoke** – CP to correct coordinates to 33-11-02/85-24-21 is on the air.
- 1490 KBLF CA Red Bluff** – Applies for license to cover CP to correct coordinates.
- 1540 KNGL KS McPherson** – CP to correct coordinates to 38-20-19/97-40-05 is on the air.

Canadian news (via Dan Sys, Shawn Axelrod, WRTH):

- 580 CFRA ON Ottawa** – CP for U4 50000/3000 is on the air.
- 860 CBXW BC Edgewood** – LPRT transmitter destroyed by fire in April and will not be replaced; station deleted.
- CBRJ BC Grand Forks** – LPRT applies to move to 107.3 MHz FM.
- 990 CBAF20 NB Kedgwick** – LPRT applies to move to 98.1 MHz FM.
- 1040 CJMS QC Saint Constant** – Licensee has been summoned to a CRTC hearing on November 5 to discuss ongoing issues of non-compliance. Unlike the FCC, the CRTC takes noncompliance with regulations quite seriously, and has revoked a couple of station licenses in recent years (CJRN-710 comes to mind).
- 1570 CKMW MB Winkler** – Silent and deleted; has moved to 88.9 MHz FM.



Wayne Heinen is back with updates to the 34th Edition of the *AM Radio Log* – you have ordered yours already, haven't you? These are the changes that have been made to the *AM Radio Log* database in the three weeks since the 34th Edition closed on August 15:

- 630 KIDD CA Monterey** – Slogan: "ESPN 630."
- 740 WHMT TN Tullahoma** – Format: SPT (ex-AC); Slogan: "The Ticket"; Networks become: CS/Jr; Adds // W286BG-105.1
- 790 WLBE FL Leesburg-Eustis** – Format: OLD (ex-TLK/BIZ); Delete Slogan: "My790AM"; Network Update: C/Fn.
- 830 WFNO LA Norco** – Slogan: "La Caliente 830 AM" (GH).
- 940 WCPC MS Houston** – Network Update: IRN/SRN.
- 990 KRSL KS Russell** – Slogan: "Hometown Classic Country."
- 1000 WRQR TN Paris** – Delete // WMUF-104.7.
- 1010 WKJW NC Black Mountain** – Format: GOS (was TLK/REL); Slogan Update: "The King's Radio"; Delete Networks.
- 1060 WQOM MA Natick** – This is now back on the air, even though listed silent at the FCC CDBS. (FW)
- 1060 CKMX AB Calgary** – Format: Comedy (ex-C&W); Slogan Update: "Funny 1060."
- 1080 KNDK ND Langdon** – Slogan Update: "Info 1080."
- 1200 WJUA FL Pine Island Center** – Format: SS:AC (ex-NWS/TLK); Slogan: "Juan AM 1200"; Network now: DG; // WNPL-1460 (TK).
- 1200 WXIT NC Blowing Rock** – Network Update: C/Sf/TRN/Ru/P.
- 1230 KOY AZ Phoenix** – Format: BIZ (ex-NOS/JAZZ); Slogan: "Business 1230 KFYI."
- 1230 KELY NV Ely** – Format: TLK (ex-OLD).
- 1230 KOZA TX Odessa** – Format: SS:CHR (ex-Tejano); Slogan: "Radio Extrema."
- 1250 KIKZ TX Seminole** – Format: AC was C&W; Drops // KSEM-106.3.
- 1260 KLYC OR McMinnville** – Slogan: "True Oldies"; Networks: CM.
- 1280 WJAY SC Mullins** – Adds // W252BL-98.3.
- 1290 KCUB AZ Tucson** – Network Update: A/CS/Jr.
- 1300 WJZ MD Baltimore** – Network Update: CS/Jr; Drops // WJZ-FM-105.7.
- 1310 WRSB NY Canandaigua** – Drops // WASB-1590.
- 1320 KKSM CA Oceanside** – Slogan: "Radio Revolution."
- 1330 WMLT GA Dublin** – Format: SPT:Rock/OLD (ex-UC:AC); Network Update: CS/Jr.
- 1340 WFMH AL Cullman** – Slogan: "Sports 1340"; Networks to: AI/YSR; Adds // WMCJ-1460.

1340	WDSR	FL	Lake City – Adds // W238BW-95.5.
1340	WAML	MS	Laurel – Format: UC:GOS/SPT (ex-UC:GOS); Network: YSR.
1360	WIXI	AL	Jasper – Format: UC:OLD (ex-TLK/C&W); Slogan: “The Heartbeat of the City”; Adds // WJLD-1400.
1360	KPXQ	AZ	Glendale – Slogan: “Faith Talk 1360.”
1370	WSHV	VA	South Hill – Format: C&W (ex-UC:OLD); Slogan: “Country Legends 96.7.”
1400	WJLD	AL	Fairfield – Format: UC:OLD (ex-UC:OLD/Blues); Slogan: “The Heartbeat of the City”; Drops //W281AB-104.1; Adds// WIXI-1360.
1400	WKPT	TN	Kingsport – Format: SPT (ex-OLD); Network: ESPN; Slogan and Group now: //ESPN TriCities (ex-WKPT Radio Network).
1420	WRCG	GA	Columbus – Format: NWS/TLK/OLD (ex-NWS/TLK).
1420	WCED	PA	Du Bois – Network Update: A/Mt/DR/Ru/P/DrJ/MRN/PRN/CS/Jr.
1430	KWAP	AK	Wasilla – Format: Rock/OLD (ex-Silent); Slogan: “Eagle 105.3”; Network: DG Adds // KKNI-105.3.
1440	WKLX	VA	Blackstone – Network Update: Vn/FSR.
1450	WVOM	ME	Rockland – Format: NWS/TLK (ex-SPT); Slogan: “Voice of Maine”; No longer //WQSK-97.5; no longer Group: //Fox Sports Maine
1460	WMCJ	AL	Cullman – Format: SPT (ex-GOS); Slogan: “Sports 1340”; Network Update: AI/YSR; Adds // WFMH-1340.
1460	WNPL	FL	Golden Gate – Format: SS:AC (ex-NWS/TLK); Slogan: “Juan 1200 AM”; Networks: DG; Adds // WJUA-1200 (TK)
1470	KWAY	IA	Waverly – Slogan: “The Winner.”
1490	WRMT	NC	Rocky Mount – Format: SPT (ex-UC:GOS); Slogan Update: “Sports 1490 AM”; Network: FSR.
1490	WOPI	TN	Bristol – Format: SPT (ex-OLD); Network: ESPN; Slogan and Group now: //ESPN TriCities (ex-WKPT Radio Network).
1520	WSVX	IN	Shelbyville – Format: CHR (ex-AC).
1520	WWKB	NY	Buffalo – Format: SPT (ex-TLK); Slogan Update: “ESPN 1520”; Network Update: ESPN.
1530	WYMM	FL	Jacksonville – Format: SS:MEX (ex-SS); Slogan Update: “La Mas Grande.”
1530	WWDX	TN	Huntingdon – Format: TLK (ex-SPT); Delete Slogan: “Classic Country The Dixie”; Delete Network: YSR.
1550	WZUM	PA	Braddock – Slogan: “The Heart & Soul of Pittsburgh.”
1570	WECU	NC	Winterville – Slogan: “The Promise.”
1570	WQTW	PA	Latrobe – Adds // WLSW-103.9.
1580	WHLY	IN	South Bend – Format: SS:MEX (ex-REL); Slogan: “La Raza”; Drops Network: EWTN.
1590	WASB	NY	Brockport – Format: SPT (ex-BIZ); Slogan Update: “Team 1590”; Network Update: CS/Jr; Drops // WRSB-1310.
1590	WKTP	TN	Jonesborough – Format: SPT (ex-OLD); Network: ESPN; Slogan and Group now: //ESPN TriCities (ex-WKPT Radio Network).

Radio Cantico Nueva – Website shows the following the question is are these // operations or just a network? Radio Cantico Nuevo 910am New York New Jersey (*WRKL*), Radio Cantico Nuevo 740am New York Connecticut (*WNYH*), Radio Cantico Nuevo 1530am New Jersey Centro (*WJDM*), Radio Cantico Nuevo 1440 AM Long Island New York (*WNYG*). In addition Bruce Conti reported *WSNR-620 // WNYG-1440* in Vol 80 #29 Anyone in the area with the complete info on this?

Wayne’s thanks (and ours) to Shawn Axelrod, Bill Hale, Frank Welch (FW), Terry Krueger (TK) Glenn Hauser (GH).

**NRC DX Audio Service** Issue 244 for September 2013 has been sent to members and is available for download to e-DXN.com subscribers. Highlights include Mark Durenberger’s full convention report (also posted to [www.nrcdxas.org](http://www.nrcdxas.org)), some recent commentary on the future of AM radio, the latest news about the radio industry (including trends in station formats from Wally Wawro and updates on some of the biggest names in radio talk, from Rush Limbaugh to Art Bell), and more of Fred Vobbe’s VOA history. Plus the usual AM Switch with Dave Alpert, Musings of the Members, and Phil Wayne’s airchecks on Marketscope.

If you’re a *DX News* print subscriber who has never checked out the DX Audio Service, you don’t know what you’re missing! Get DXAS delivered to your door on CDs, or download from e-DXN.com today!

*Domestic DX*      **Mike Brooker** patria1818@yahoo.com  
*Digest – East*      99 Wychrest Avenue  
 Toronto, ON M6G 3X8 CANADA  
**U.S./Canadian Loggings from Eastern/Atlantic Time Zones. All ELT.**

REPORTERS

- BC-NH      **Bruce Conti, Nashua** – Excalibur SDR, MWDX-5, variable termination SuperLoop antennas northeast and south.  
 SC-IN      **Steve Chappell, McCordsville** – Chrysler car radio, K9AY loop antenna.  
 KK-VA      **Kraig Krist, Manassas** – Winradio G33DDC SDR, Kiwa loop.  
 TLK-FL      **Terry Krueger, Clearwater** – NRD-535, NRD-515, Sony ICF-7600GR, dipole, custom active ferrite loop.  
 JJR-MI      **John J. Rieger, L’Anse** – Grundig Satellite 750.  
 MKB-ON      **Mike Brooker, Toronto** – Grundig G5, Grundig YB-400PE, Sony SRF-39FP, Panasonic RF-2200 (receiver emeritus)

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)

DX TEST

- 550 WDEV VT **Waterbury** – 8/17 0000 – DX test mixing with WGR, WIOZ and other talk, heard WDEV given in code and sweep tones. (KK-VA)  
 +++ - 8/17 0003 – DX test tried for but not heard under semi-local groundwave pest WGR. (MKB-ON)

UNID

- 1410 UNID -- - 8/28 0649 – Poor with Cowsills song, uptempo jock and “your radio station” slogan, which I never found out what it was. Jock presentation suggested oldies rather than NOS format. Certainly not a classic hits station. (JJR-MI)

TIS/HAR/BEACON

- 529 WQHL966 TN **Morrison** – 8/25 0300 – Loud het against 530 R. *Enciclopedia*; repeating LYQ in Morse code. Listed in FCC database as an aviation radio navigation station at Roseanne Airport. New log. (BC-NH)  
 1630 - - - - RI **Multiple Locations** – 8/27 2000 – Poor; “...Rhode Island Department of Transportation and the Transportation Management Center.” (BC-NH)  
 1690 WQKP882 FL **Largo** – 8/9 1945 – Pinellas County Traffic Management now just running a looping male, “From the Pinellas County Traffic Management Center in Clearwater, Florida, you’re listening to WQKP882 and WQKP883, operating on 1690 kilohertz AM.” No stale old telco female US-19 traffic loop any more. The strong 49th Street (Bayside Bridge) transmitter is closer to frequency. Largo has always been right around here, so that’s where this one is coming from. Actual frequency is 1689.985 kHz. (TLK-FL)  
 WQKP882 FL **Oldsmar** – 8/10 1230 – Pinellas County Traffic Management, big signal noted while driving to the Oldsmar Flea Market on SR-580. While sitting at the stoplight at SR-580 and Forest Lakes Blvd., I noticed the antenna pole/transmitter in a grassy patch at the NW side. On my return, I pulled over and fired up the ICF-7600GR. Indeed this is the one, even a harmonic present strong on 3380 kHz sitting inside the car about 100 feet from the stick, which one can walk up to. Same synchronized loop as the other active ones on 1690. I didn’t have my frequency counter with me, but it seemed this one is very slightly on the high side of 1690, which could be one of the signals David Crawford measured a few months ago from Titusville. Driving west on SR-580, signal from another one, slightly off frequency from the Oldsmar signal, semi-peaked as I turned on to Belcher Rd. and away from the signal. Suspect that was the Palm Harbor 1690. But for certain, at least four of these are again active after the repairs late spring. (TLK-FL)



## LOGGINGS

**760 WCHP NY Champlain** – 9/5 2100\* – Fair after WVNE reduced power; alternating man and woman with sign-off, “WCHP Champlain now concludes this broadcasting day. WCHP radio is owned and operated by Champlain Radio Incorporated, with studios, transmitter, and offices located in Champlain, New York. WCHP operates on an assigned frequency of seven-hundred and sixty kilohertz by authority of the Federal Communications Commission in Washington, DC. We would like you to tune in tomorrow morning at 6:30 when WCHP will again sign on to broadcast today’s good news of Jesus Christ.” **(BC-NH)**



**800 WVAL MN Sauk Rapids** – 9/6 0736 – Poor with call letter ID into old C&W song. **(JJR-MI)**  
**900 WCPA PA Clearfield** – 8/29 1855 – In multi-station mix (CHML, UNID C&W and SS) with State College vs Jamestown college baseball game, “3WZ” slogan non-ID. **(KK-VA)**

**920 WMMN WV Fairmont** – 8/25 0400 – Through WHJJ dead air; “Your home for live sports and sports talk around the clock, Fox Sports Radio 920 WMMN in Fairmont.” New log. **(BC-NH)**

**940 WINE CT Brookfield** – 8/27 1900 – Fair; “Sports Radio 940 and 1510 is WINE Brookfield-Danbury and WPUT Brewster, a pair of Cumulus stations, this is Sports Radio 940 and 1510,” and CBS Sports Radio. **(BC-NH)**

**WFAW WI Fort Atkinson** – 8/9 0722 – Very poor, call letter ID heard in passing. Lost to others. **(JJR-MI)**

**950 WROL MA Boston** – 9/2 0559 – “WROL” a couple times during weather forecast just before TOH. Alone but soon gone. NEW! **(SC-IN)**

**960 WSVU FL North Palm Beach** – 8/15 0644 – Tune-in to Rod Stewart cover of “The First Cut Is the Deepest” segued to Kim Carnes “Betty Davis Eyes” then female with canned “This is 95.9 Seaview Radio” slogan and back to songs. I had this as a presumed on sunrise from here last September, but without an ID, and fair in the middle Keys last October. Song sequence matching the frame display on their website, but their live stream was broken. **(TLK-FL)**



**970 WJMX SC Florence** – 8/26 0300 – Fair; “News/Talk 970 WJMX AM Florence, and 97.9 FM W250BJ Florence, the Pee Dee’s best place to talk, and now here’s your ABC news.” **(BC-NH)**

**1000 WLNL NY Horseheads** – 8/18 2004 – In multi-station mix with local weather, “from the WLNL weather center I’m Jessie Beard” into “WLNL Financial Update.” **(KK-VA)**

**WIOO PA Carlisle** – 8/18 1920 – In multi-station mix with station promo: “Powerful classic country songs of all time...listen live at WIOO.com.” **(KK-VA)**

**WRQR TN Paris** – 8/18 2038 – In multi-station mix (WIOO, WLNL, UNID ESPN, SS, talk and gospel stations) with “... AM one thousand WRQR. Your home of the... 97.5 FM AM 1000 WRQR” ID by man. Station 1,078 for me. **(KK-VA)**

**1010 WOLB MD Baltimore** – 8/18 1917 – In CFRB/WINS mix with ID and website promo: “You’re tuned to ‘The Talk’...10-10 WOLB Baltimore dot com” (i.e. <http://wolbbaltimore.com/>). **(KK-VA)**

**1030 WDRU NC Creedmoor** – 8/21 2002 – In multi-station mix with local weather by woman with southern accent, man with FM-only ID: “This is the Triangle’s ‘Voice of Truth’...105.7 FM...WDRU.” **(KK-VA)**

**WGFC VA Floyd** – 8/21 2017 – In multi-station mix with “and now... right here on WGFC country radio” by male DJ into C&W song. **(KK-VA)**

**WBGs WV Point Pleasant** – 8/21 2029 – In multi-station mix (WWGB, WBZ, WGFC, WDRU) with station promo: “This is Pastor Rick Dowl host of ‘Midnight Praises’...Monday through Friday... 2AM. Tune in to some of the best music in the world. Gospel music that is. Right here on WBGs ‘Faith Radio.’” **(KK-VA)**

**1040 WNJE NJ Flemington** – 8/22 1855 – In multi-station mix (WYSL, CJMS, UNID talk, C&W and SS stations) with “Truth for Life” program, end-of-program station tag: “This program has been sponsored by ‘Truth for Life’. And when you write to Allister Beg, please be sure to mention our call letters WCHR.” WCHR-920 Trenton, NJ is // WNJE. **(KK-VA)**

**WYSL NY Avon** – 8/22 1855 – In multi-station mix (see WNJE above) with talk show discussing upcoming sheriff primary. **(KK-VA)**

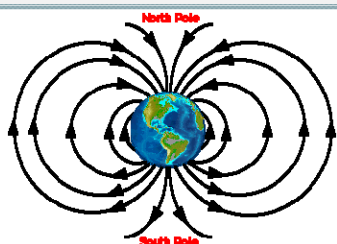


- 1050 WBRG VA **Lynchburg** – 8/23 1959 – In multi-station mix (WBQH, WEPN, UNID oldies and gospel stations) with ToH ID: “The following is a presentation of Nascar on your home for Nascar action all season long. Super talk 104.5 and 10-50 WBRG Lynchburg.” Noted later this evening with Baltimore Orioles baseball game. **(KK-VA)**
- WLIP WI **Kenosha** -8/11 0700 – Very poor with ToH ID including “WLIP” jingle into CBS news. Never heard in L’Anse before. **(JJR-MI)**
- 1060 WILB OH **Canton** – 8/25 1855 – In KYW mix with “Living Bread Radio” slogan, EWTN programming. Noted again at 2029 with sign-off. **(KK-VA)**
- KGFX SD **Pierre** – 9/5 2214 – Fair, wiping out KYW, with call letter ID into PSA’s, “South Dakota’s pioneer radio station, 1060 KGFX” slogan. **(JJR-MI)**
- 1070 KNX CA **Los Angeles** – 8/22 0635 – Poor with “KNX Newsradio 1070” tag at end of news item into ad for Dewey Pest Control, “KNX news time 3:35” and “traffic on the 5’s.” Still in at 0656 with end of weather report “for the Southland.” **(JJR-MI)**
- WKOK PA **Sunbury** – 8/26 1923 – In WINA/WNCT/CHOK mix with “Coaches Corner” (presumably a local program, not Hockey Night in Canada icon Don Cherry), station promo “...you can listen to WKOK anywhere. The information you need is online now... at WKOK.com” and “News radio 10-70 WKOK” ID. **(KK-VA)**
- 1080 WWNL PA **Pittsburgh** – 8/27 1925 – In WTIC mix with “Bible Answer Man,” program. Sign-off announcement at 2014, but programming actually continues until 2020. **(KK-VA)**
- 1150 WGBR NC **Goldsboro** – 8/25 0400 – Fair; “Hear what everybody’s talking about, 1150 WGBR Goldsboro.” New log. **(BC-NH)**
- WHUN PA **Huntingdon** – 8/12 1944 – In multi-station mix (WAVO, WDEL, CKOC, UNID gospel station) with typical ESPN radio programming, “Mike and Mike get your day going for the latest sports news and opinions...mornings 6 to 10 on ESPN Radio 1150” station promo. Long station promo at 1957: “... as much as we enjoy being a part of your day. If you’d like to get in touch with ESPN Radio 1150 to tell us what you think about our radio station, to publicize your community events, to advertise with us or to just tell us you’re listening at work so we can thank your business on the air, you can call the radio station at 814 643-9620. Email [espnradio1150@foreverradio.com](mailto:espnradio1150@foreverradio.com). Fax us at 643-9425...highway Suite A, Huntingdon PA 16652. Thanks again for listening to ESPN Radio 1150 WHUN Huntingdon,” then woman with info on “Lobster Fest September 27th.” **(KK-VA)**
- WAVO SC **Rock Hill** – 8/12 1959 – In WHUN/WDEL/CKOC mix with near-ToH ID: “You’re listening to WAVO 11-50 AM and the greatest hits...WAVO Rock Hill Charlotte.” **(KK-VA)**
- 1160 WVNJ NJ **Oakland** – 8/13 2005 – In multi-station mix (WMET, WOBN, WCCS, WTEL, WPIE and UNID ESPN radio) with station promo: “Entertaining and engaging. Talk on your radio... 11-60 WVNJ.” **(KK-VA)**
- WTEL NC **Red Springs** – 8/13 2020 – In multi-station mix with station promo: “with 5 thousand watts of Gospel power. You’re in tune...11-60 WTEL Red Springs North Carolina.” **(KK-VA)**
- 1170 WWTR NJ **Bridgewater** – 9/5 2100 – Fair; a quick “WWTR Bridgewater” interrupting subcontinental Indian music, then an ad in English for a Paterson business. **(BC-NH)**
- WCXN NC **Claremont** – 8/14 2102 – In WDEK/WWVA mix with Spanish programming, bilingual “www...WCXN” website promo. **(KK-VA)**
- WDEK SC **Lexington** – 8/14 1958 – In WCXN/WWVA mix with website promo: “Craving your favorite beach, boogie and blues? Well, WDEK is streaming 24 hours a day, 7 days a week. It’s easy as logging into WDEK1170AM.com for the best in beach, boogie and blues and more...” **(KK-VA)**
- 1180 WFYL PA **King of Prussia** – 8/15 1933 – Getting hammered by WHAM, also mixing with SS (presumably Cuba), with website promo: “...1180WFYL.com. Listen online anytime at 1180 WYFL dot com. King of Prussia...” into woman with promo for “Career Center” on Saturday “...exclusively on 11-80 WFYL.” **(KK-VA)**
- +++ - 8/27 2000 – Under WHAM; “This is AM 1180 WFYL King of Prussia-Philadelphia,” and Fox news, a few seconds ahead of Fox news on WHAM. New log. **(BC-NH)**



- 1190 WIXE NC **Monroe** – 8/16 2010 – In WCRW/WLIB mix with country and farm quiz, “...and now your RCS special southern weather” into ad for RCS Septic Service in Monroe. **(KK-VA)**
- 1230 WKLK MN **Cloquet** – 8/22 0632 – Poor with jingle that just popped out: “America’s Best Music – WKLK” and back into mess! **(JJR-MI)**
- KWNO MN **Winona** – 8/11 0730 – Poor with “KWNO Business of the day,” Menards ad. **(JJR-MI)**
- KWSN SD **Sioux Falls** – 8/8 2200 – Very poor in graveyard mess with ToH legal ID, very clear Sioux Falls mention into Fox Sports talk. **(JJR-MI)**
- WVNT WV **Parkersburg** – 8/26 0200 – Briefly atop the jumble; “AM 1230 WVNT Parkersburg, the valley’s news/talk leader,” and ABC news. New log. **(BC-NH)**
- 1240 WSBC IL **Chicago** – 8/9 0732 – Presumed with mention of “at 6:32, traffic on the Dan Ryan,” into Chicago traffic report in fade up. **(JJR-MI)**
- WJON MN **St. Cloud** – 8/8 2230 – Poor with clear ID in between ads. Clark Howard in with others. **(JJR-MI)**
- WGBB NY **Freeport** – 8/26 2200 – Fair; Chinese Radio Network and WGBB ID in Chinese. **(BC-NH)**
- KCCR SD **Pierre** – 9/6 0600 – Very poor with ToH legal ID into CBS news. Heard again at 0655 with “72 degrees at Capital City radio, KCCR Pierre” into America in the Morning show. **(JJR-MI)**
- 1250 WGL IN **Fort Wayne** – 9/6 0811 – Very poor with clear “Oldies 102.9 WGL” FM // ID popping through WSSP et al. **(JJR-MI)**
- KCUE MN **Red Wing** – 8/11 0750 – Very good with “Bluff Country 1250 KCUE” slogan. Never in this well! Only fourth time heard. **(JJR-MI)**
- 1270 WILE OH **Cambridge** – 8/25 0400 – Fair; “...WILE Cambridge and FM 107.9, we’re ESPN Cambridge.” 107.9 is W300CB. New log. **(BC-NH)**
- WLBR PA **Lebanon** – 9/5 2100 – Good; “The Lebanon Valley’s only full service radio station, since 1946, WLBR Lebanon,” and ABC news. **(BC-NH)**
- 1330 CJYM SK **Rosetown** – 8/11 0618 – Poor with “Classic Hits 1330 CJYM” slogan between oldie songs. **(JJR-MI)**
- 1340 WLEW MI **Bad Axe** – 9/6 0807 – Very poor with phone calls, information on transit for elderly, mention of 1-800-322-11..., 989-269-.... phone numbers in fade up/out. Noted earlier with talk of Branson and “Jimmy Price,” C&W songs. **(JJR-MI)**
- KRBT MN **Eveleth** – 9/6 0758 – Poor with slogan “new home for sports...the Fan 1340” over others in fade up. **(JJR-MI)**
- 1360 WNJC NJ **Washington Township** – 9/1 2003 – Over dueling sports talkers with local gospel program, “...the place where the word of God is preached with power and clarity...on WNJC” into sermon by Rev. Dr. Gloria J. Lewis. **(MKB-ON)**
- 1390 WLCM MI **Holt** – 8/22 0627 – Poor in WGRB null with clear call letter ID, including PO Box address and 1-800 number for info. Not common. **(JJR-MI)**
- 1400 WICK PA **Scranton** – 8/26 2200 – Mostly under WLLH; “Sports Radio... 1400 WICK Scranton, 1340 WYCK Wilkes-Barre, 1440 WCDL... and on FM at 100.7...” and Wilkes-Barre baseball. 100.7 is W264CG. New log. **(BC-NH)**
- WBIZ WI **Eau Claire** – 9/6 0746 – Poor in fade-up with “...WEAU-TV and SportsRadio 1400 WBIZ” ID, Yahoo Sports Radio (confirmed by website). Heard with Fox Sports and other formats in past. **(JJR-MI)**
- 1410 WHTG NJ **Eatontown** – 8/27 1900 – Over/under WPOP; “Great Gold 1410, WHTG Eatontown-Red Bank... Communications LLC, New Jersey’s Real Oldies.” **(BC-NH)**
-  **WNER NY Watertown** – 9/5 1900 – Fair; “Northern New York’s home for all sports, Fox Sports Radio 1410, WNER Watertown, The Winner.” **(BC-NH)**
- 1450 KBMW MN **Breckenridge** – 8/8 2245 – Poor but over several others with “1450 KBMW, the Voice of the Valley” slogan and classic C&W. **(JJR-MI)**
- KNSI MN **St. Cloud** – 8/9 0632 – Poor with local news, “KNSI news time is 5:32” then gone seconds later. **(JJR-MI)**
- 1460 KDWA MN **Hastings** – 8/11 0735 – Poor with call letter ID given before local PSA. **(JJR-MI)**
- KXPB NE **Kearney** – 8/9 0759 – Poor with ESPN sports talk, mentions “of Omaha” and “tri-cities” in ToH ID. Lost to KXNO. **(JJR-MI)**
- 1510 KCKK CO **Littleton** – 9/6 0722 – Poor but alone with mention of “on Miles High Sports” into Yahoo sports. **(JJR-MI)**

- 1520 KSIB IA **Creston** – 8/11 0800 – Poor with “we’re southwest Iowa’s home...Fox Sports... 1520 KSIB.” No KOLM! 1520 #19, IA #61. NEW! (JJR-MI)
- WMLM MI **St. Louis** – 9/6 0740 – Poor with local sports report mentioning high school sports. Faded to presumed KOLM. (JJR-MI)
- 1530 WYMM FL **Jacksonville** – 8/15 0701 – This thing has converted more times than Bob Dylan. Thought I had the XEUR Mexican; tune-in to “La Más Grande 15-30 AM” slogan and two Mexi-tunes. But it’s merely this one. It used to be Radio Unica and also Radio Fé slogans (Spanish Christian), EE prior. And their still functioning website <http://www.radioamistad1530am.com/> says “Amistad” slogan and SS Christian, but Google of “la mas grande 1530” confirms this: <http://www.lamasgrande1530.com/> (TLK-FL)
- 1590 WIXK WI **New Richmond** – 8/12 0625 – Very good with “Classic Country 1590 WIXK” slogan between songs. Unusually strong! (JJR-MI)
- 1640 WTNI MS **Biloxi** – 8/26 2300 – Fair; “...radio 96-7 WUJM Gulfport, 1490 WXBD Biloxi, 1640 WTNI Biloxi, 96-7 The Champ,” and ESPN. (BC-NH)
- 1650 CINA ON **Mississauga** – 8/25 0400 – Over/under WHKT and CJRS; Bollywood vocals. (BC-NH)



## Geomagnetic Indices

Geomagnetic Summary August 2013

Via Phil Bytheway – Tabulated from email status daily.

Date	Flux	A	K	Space Weather	8/16	120	23	2	no storms
8/ 1	112	5	1	no storms	8/17	125	7	2	minor, R1
2	113	4	1	no storms	18	126	6	1	no storms
3	107	5	2	no storms	19	128	5	1	no storms
4	105	16	4	minor, G1	20	132	5	3	no storms
5	104	16	3	minor, G1	21	130	18	4	no storms
6	104	7	2	no storms	22	132	13	3	no storms
7	106	4	1	no storms	23	124	15	2	no storms
8	104	5	2	no storms	24	117	7	1	no storms
9	104	9	2	no storms	25	113	7	1	no storms
10	103	6	1	no storms	26	111	5	1	no storms
11	110	6	1	no storms	27	110	15	4	minor, G1
12	114	6	3	minor, R1	28	108	9	1	no storms
13	122	9	3	no storms	29	109	3	1	no storms
14	125	10	3	no storms	30	109	3	2	no storms
15	123	15	3	no storms	8/31	108	8	4	no storms

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

## NOAA Space Weather Outlook

Issued September 2 – For the period September 2-28, 2013

(From <http://www.swpc.noaa.gov/ftpdir/weekly/WKHF.txt>)

Solar activity is expected to be at very low to low levels. A chance for an M-class flare exists with the return of old Region 1817 (S21, L=241) from 02-15 September.

No proton events are expected at geosynchronous orbit.

The greater than 2 MeV electron flux at geosynchronous orbit is expected to be at normal to moderate levels with high levels expected on 04-07 September, 12-16 September, 19-23 September, and again on 27-28 September due to activity associated with coronal hole high speed streams (CH HSSs).

Geomagnetic field activity is expected to be at quiet to active levels on 02 September associated with activity from the 30 August coronal mass ejection. Unsettled to active conditions are expected on 04 September, 10-14 September, 17-19 September, 26-28 September due to CH HSS activity. Quiet to unsettled periods are expected on 23-24 September due to a solar sector boundary crossing.

TWO URLs TO BOOKMARK

[www.nrcdxas.org](http://www.nrcdxas.org)

[www.e-dxn.com](http://www.e-dxn.com)

# *Domestic DX* Jim Tedford Radio\_Enthusiast@hotmail.com *Digest – West* 20310 Bothell-Everett Highway B4 Bothell, WA 98012-8133

**U.S./Canadian Loggings from Pacific/Mtn/Central Time Zones. All times ELT.**

## Reporters

- BD-WI** Bill Dvorak, Madison, WI. Drake R8B, Double Kaz bearing 100 degrees.  
**GH-OK** Glenn Hauser, Enid, OK. Mostly DX-398 with internal antenna only; or Sony SRF-59 as specified; Nissan stock car radio as specified; FRG-7 as specified. (Glenn's reports, with extensive commentary, are originally published in *DX Listening Digest*).  
**JJR-WI** John J Rieger, South Milwaukee, WI. Icom IC-R75, Kiwa loop, MFJ-959B tuner-preamp.  
**JR-OK** John Reed, Shawnee, OK. Racal RA6772E, RA6793A, JRC NRD-545 with Pühler roofing filter; homebrew ferrite tuned loop, Clifton Labs active whip.  
**NK-WI** Neil Kazaross Grafton WI. Perseus and Phased BOG System at 63 degrees 660 feet //490 feet.  
**RD-IA** Rick Dau, at the Super 7 in Coralville (Iowa City), IA. Sangean ATS-909X, Quantum QX Pro loop  
**RD-MN1** Rick Dau, at Lac Lavon/Fisher Fields Park (NRC/IRCA/MDXC DXpedition) Burnsville, MN. Kenwood R-5000, Quantum QX Pro loop.  
**RD-MN2** Rick Dau, on State Highway 11 just west of International Falls, MN. 2004 Toyota Avalon car radio.  
**RD-MN3** Rick Dau, on the north shore of Otter Tail Lake near Richville, MN (46-25-26 N 95-40-16 W). Sangean ATS-909X, Quantum QX Pro loop.  
**RD-ND1** Rick Dau, at the Staybridge Suites in Grand Forks, ND. Sangean ATS-909X.  
**RD-ND2** Rick Dau, on State Highway 13 just east of Gwinner, ND. 2004 Toyota Avalon car radio.  
**RD-NE** Rick Dau, South Omaha, NE. Sangean ATS-909X, Quantum QX Pro loop.  
**RS-UT** Ron Schiller St. George UT. Kia car radio, Grundig S-350.  
**SA-MB** Shawn M. Axelrod VE4DX1SMA, VEPC4SWL Winnipeg MB. ICOM ICR-70 / DRAKE R8; 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.

## DX Test

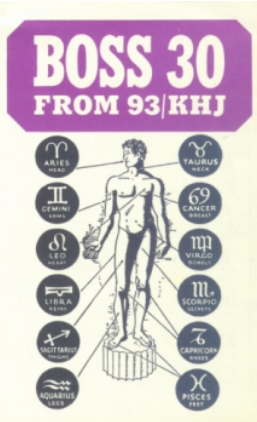
- 550 WDEV VT Waterbury – 8/17 0007-0008 – Very weak under severe QRM from suspected KTRS, with sweep tones and one short burst of unreadable Morse code. For this test I changed the bearing of the Double Kaz by a full 180 degrees, from 280 to 100, by switching the front end amplifier with the termination end. This enhanced eastern stations while attenuating those to the west, just the opposite of what the original design was intended to do. This was my first VT station (!), bringing my states total to 45. (BD-WI)

## DX Logs

- 550 WSAU WI Wausau – 8/14 2300 – Dominating the channel in the null of KTRS with Milwaukee Brewers BB. (RD-IA)  
 600 KSJB ND Jamestown – 8/5 1225 – Strong, but rather distorted, with C&W song "Timber I'm Falling In Love" by Patty Loveless, then "Classic Country 600 KSJB" ID. The distortion was due to the fact that KSJB has a sharp daytime null to the SE to protect WMT, and I was probably sitting right in the middle of it at the time of reception. (RD-ND2)  
 630 WLAP KY Lexington – 8/18 2332 – Poor in KSJL tight null. "News radio 630 WLAP" promos, Bill Cunningham. (JJR-WI)  
 650 CKOM SK Saskatoon – 8/19 0158 – I null WSM as something else is usually audible, like XETNT or KGAB, but now it's a calendar into October of various music festivals in Saskatoon, plugging ticket sales now, ergo: CKOM, 10/10 kW. Night pattern is supposed to employ a deep null toward the south, everything going northward; unbelievable. Apparently I have not logged this one before.

Countless Canadians ignore night pattern requirements: good for south-of-border DXers, bad for US stations entitled to protection. **(GH-OK)**

- 690 KGGF KS **Coffeyville** – 8/19 0101 – Finding the usual stuff during the 960 KGWA Fox-hole, I punch in 690 for KGGF Coffeyville KS closing: no Taps is playing but instead soul version of “America the Beautiful”; then, just before 0504, sign-off message, followed by Taps a bit later than usual. Perhaps a Sunday-night variation? Carrier still on at 0556 check, presumably all-night. **(GH-OK)**
- 720 WGN IL **Chicago** – 8/1 2214 – Very good, as expected, with Chicago Cubs baseball. **(RD-MN1)**
- 830 WUMY TN **Memphis** – 8/18 0613 – Poor in WCCO null. “Y105” with C&W. **(JJR-WI)**
- 880 KRVN NE **Lexington** – 6/29 2230 – “Rural Radio” in next to slop from one of 3 locals KDXU-890 St George. **(RS-UT)**
- 910 KJJQ SD **Volga** – 8/5 1451 – Fair with ad for farm implement dealer in Brookings. Heard while paying a 45-minute visit to my family’s old summer vacation spot from my childhood years. **(RD-MN3)**
- 930 KHJ CA **Los Angeles** – 8/29 0737 – I am nulling WKY OKC to find another very weak station with Spanish music, except it’s more romantic without all the tubas pumping away on La Indomable. But I have to keep adjusting the DX-398 on my belly to be sure I am still hearing the DX. A real Mexican would be nice, but there are none in the northwest beyond Saltillo, so it’s probably KHJ Los Angeles, a.k.a. “La Ranchera” in latest incarnation. By 0742 something in English is taking over the WKY null position. (But WKY also runs ads in English mixed with Spanish as I heard one at tune-in.) Not only by awakening before latening sunrise, but info from NRC *DX News* that WKY has got an extension on their STA to run 1 instead of 5 kW at night have spurred me to resume DXing 930 beyond OK. **(GH-OK)**



- 930 KKIN MN **Aitkin** – 8/18 2320 – Poor, “Sports call, Monday morning at 8 on 94 KKIN.” No KBCK, WAUR. Not common here. **(JJR-WI)**
- 940 KVSH NE **Valentine** – 8/26 0700 – Fair @ 30/9! Nice, detailed sign-on, “on until 10 o’clock tonight.” **(JJR-WI)**
- 950 CKNB NB **Campbellton** – 8/17 2218 – Very good well atop everything else with call ID and back into mx best described as a combo of AC and rock oldies. **(NK-WI)**
- 960 KLTF MN **Little Falls** – 8/27 0631 – Poor with “degrees at KLTF” sandwiched between 2 “Insight for Living” programs. Hoping for needed WDLM. Still, from here, not bad. Over WSBT. **(JJR-WI)**
- 980 KMIN NM **Grants** – 7/18 2210-2215 – A surprise among KFWB and KSVC with country music format and “K-Mine Radio” ID. **(RS-UT)**
- 1010 WMOX MS **Meridian** – 8/14 2359 – Weak but in the clear in CFRB’s null with “Newstalk 1010 WMOX, Meridian” ID heard. **(RD-IA)**
- 1030 WQSE TN **White Bluff** – 8/14 2356 – Quite strong in WBZ’s null with Southern Gospel music and “WQSE” ID by male announcer. **(RD-IA)**
- 1040 WHO IA **Des Moines** – 7/9 2300 – News and ID. **(RS-UT)**
- 1060 KRCN CO **Longmont** – 8/21 2155 – Business news, strong signal until 2200 when power went from 50 kW to 111 W. Then signal disappeared. **(JR-OK)**
- 1080 KGVY AZ **Grass Valley** – 8/2 2200 – ID as “KGVY.com.” **(RS-UT)**
- 1090 WFCV IN **Fort Wayne** – 8/18 0600 – Poor with LID, announcement of 100.1 FM programming. Bott Radio jingle. Hearing REL, thought it was KAAY. WFCV not common here. **(JJR-WI)**
- 1100 KNZZ CO **Grand Junction** – 8/21 2150 – Baseball game with call ID fading in/out in loop null of WTAM. **(JR-OK)**
- 1130 KLEY KS **Wellington** – 12/12 0751 – “KLA News Report,” i.e. from the Kansas Livestock Association, not a radio station, just a segment on my semi-local KLEY Wellington. **(GH-OK)**
- 1190 KQQZ MO **DeSoto** – 8/29 0809 – Am deliberately checking this frequency since latest NRC AM Switch reported KPHN Kansas City went silent 7/31 pending sale by Radio Disney. Playing “Southern Girl” C&W from NE/SW, then “Country Legends, the all-new 11-90, KGGZ;” so at first I think this is KPHN’s replacement, but FCC AM Query has no KGGZ, instead KQQZ in De Soto MO, i.e. St. Louis market. Site appears to be across the river near Granite City

IL, while De Soto is actually about 45 miles south of St Louis. So KPHN is apparently still silent. **(GH-OK)**

- 1210 KGYN OK **Guymon** – 7/9 0300 – Booming in with “US Country.” local news, advs. **(RS-UT)** 8/25 0108 – Very good signal from “U S Country,” KGYN Guymon, and it has been thus for many nights now, obviously again ignoring its nighttime directional null toward Philadelphia requirement. **(GH-OK)**
- 1220 KZEE TX **Weatherford** – 8/21 1340 – Asian, East Indian music in loop null of UC gospel music. **(JR-OK)**
- 1230 KAAA AZ **Kingman** – 7/31 2220 – Runs parallel to KZZZ-1490, not as frequently heard thru KLAV-NV; “All talk from A to Z.” **(RS-UT)**
- 1230 KINO AZ **Winslow** – 8/1 2225 – Presumably the Country station in a pile. **(RS-UT)**
- 1230 WFER MI **Iron River** – 8/20 0606 – Very poor “Heartland weather” forecast; “WFER meteorologist.” Rare! **(JJR-WI)**
- 1240 KEZY CA **San Bernardino** – 7/30 2230 – SS station oft-heard at twilight, at 290 miles my second closest 1240 station. **(RS-UT)**
- 1240 KRDO CO **Colorado Springs** – 8/1 2030 – Heard several times at dusk, Dave Ramsey show. **(RS-UT)**
- 1240 WTAX IL **Springfield** – 8/29 2315 – Poor, ad cluster, “NewsTalk 1240 and 107.5FM.” Alan Colmes, national ads. **(JJR-WI)**
- 1240 WMFG MN **Hibbing** – 8/4 1600 – Good with Minnesota Twins baseball. **(RD-MN2)**
- 1250 KHIL AZ **Willcox** – 7/18 2215 – Through dominant KNEU-UT and KNWH-CA, like KNEU a country format, IDs as “Classic Country K-Hill,” 2215 on. **(RS-UT)**
- 1310 CIWW ON **Ottawa** – 8/14 2055 – Fair on peaks with Toronto Blue Jays baseball and a mention of “...on the Blue Jays Radio Network,” then into commercials. **(RD-IA)**
- 1360 WMOB AL **Mobile** – 8/29 2143 – Poor with calls popping through. No WTAQ seemingly. **(JJR-WI)**
- 1370 WMGO MS **Canton** – 8/30 2150 – Friday night high school football, Panthers vs. Trojans. The home team, Panthers was ahead by 43 points. Call ID was heard. **(JR-OK)**
- 1370 KXTL MT **Butte** – 8/15 0759 – Fair in KDTH null with wrap-up of local newscast sponsored by funeral home in Butte. A nice surprise, not heard here since 12/2/1992. **(RD-IA)**
- 1390 WMER MS **Meridan** – 8/29 2200 – Weak with C/W gospel music and call ID. **(JR-OK)**
- 1400 KFTM CO **Fort Morgan** – 8/22 2215 – Weak with oldies and call ID. Fading in/out of graveyard jumble. **(JR-OK)**
- 1400 WSLB NY **Ogdensburg** – 8/16 2300 – Poor with “ESPN Radio 1400 WSLB Ogdensburg.” **(NK-WI)**
- 1450 KMRY IA **Cedar Rapids** – 8/29 0226 – Poor, brief fade up, calls. “Classic Hits KMRY” and lost. **(JJR-WI)**
- 1450 WPGG NJ **Atlantic City** – 8/17 2300 – Poor-fair with ad for something on Sunday mornings, and Atlantic City announcement and WPG slogan. This one gets out very well. **(NK-WI)**
- 1450 KSIW OK **Woodward** – 8/8 0043 – Fair to good with mention of “northwest Oklahoma” heard during severe storm warnings for Beaver, Harper, and Woodward Counties. **(RD-NE)**
- 1470 KYW TX **Abilene** – 8/28 2125 – Only heard clear call ID, then lost in SS music, may have faded in later with comedy routines. **(JR-OK)**
- 1490 WDAN IL **Danville** – 8/27 2324 – Poor “Danville’s Talk Station WD...” lost. In/out like that! **(JJR-WI)**
- 1490 KVWC TX **Vernon** – 8/19 2105 – Weak in graveyard jumble with call ID and 50’s music. **(JR-OK)**
- 1500 KJIM TX **Sherman** – 8/12 0743 – Mexican music catches my ear looping NE/SW, but soon loses out to a CBS News update, mixed with local ads, 1145 Osgood, then local weather relaying NWS robot concerning Palesteen, Red River, northeast North Texas, K-Jim ID in passing. As for the Mexican, two other Texans on 1500 are SS per last year’s NRC AM Log, plus some further afield in AL, IL, although I would prefer the only likely one in Cantú, 1500 XEJQ La Explosiva Parras de la Fuente, Coah. 400 D. **(GH-OK)**
- 1510 WWHN IL **Joliet** – 8/18 0705 – Fair in nice fade up, “Reverend Hawkins on WHN” was unusual in fact WRRD should have been on by now. **(JJR-WI)**
- 1530 KCMN CO **Colorado Springs** – 8/21 0859 – “In My Eyes” song runs past top of hour, 0901 ID as KWRP Pueblo, a translator, and KCMN Colorado Springs, “I-25 Radio.”

**Classic.**  
**KMRY**  
1450 AM • 93.1 FM

KWRP is 250 watts on 690, the translator is K262BB on 100.3, and I am hearing KCMN on 1530, 15 kW with AC/Oldies format per last year's NRC AM Log; soon fades out. The translator is 250 watts, licensed to Boone, site SE of Pueblo at 1700m AMSL, but only 193m AAT per FCC FM Query **(GH-OK)** 8/27 2156 – Oldies music and ads for Canon City, CO and Colorado Springs. **(JR-OK)**

- 1530 KLBW TX **New Boston** – 8/19 2135 – UC gospel music and call ID: "KLBW The Light." **(JR-OK)**
- 1550 KUAZ AZ **Tucson** – 8/26 2215 – Playing jazz music until 2215, then shut down with call ID and sign off. **(JR-OK)**
- 1570 WFRL IL **Freeport** – 8/31 0805 – Faded up in the jumble with local news. **(SA-MB)**
- 1570 KYCR MN **Golden Valley** – 9/4 0806 – Fair signals with news then slogans as Business 1570 Twin City Business Radio. **(SA-MB)**
- 1570 KAKK MN **Walker** – 8/31 0700 – Fair signals in a jumble with Oldies music and ID. **(SA-MB)**
- 1570 KBCV MO **Hollister** – 9/4 0454 – Bott Radio religious talk then ID on the hour. First new one on 1570 since CKMW went dark. **(SA-MB)**
- 1570 WSCO WI **Appleton** – 9/1 2200 – Good signals with full ID on the hour. **(SA-MB)**
- 1570 WKBH WI **Holman** – 9/1 2159 – Fair signals under WSCO with Relevant Radio programming and ID. **(SA-MB)**
- 1570 WLKD WI **Minocqua** – 8/31 0800 – Faded up on top with full ID. **(SA-MB)**
- 1570 CKMW MB **Winkler** – 8/6 0306 – No ID heard, but had to have been them noted with a clear mention of "Grand Forks" during what was probably a regional (in this case, bi-national) weather update before going into a long string of classic C&W songs. Nice to get this one last time before the AM goes silent for good in a few days. **(RD-IA)** 8/30 1100 – They pulled the plug on the AM transmitter at 10:00 local time. This was about two weeks ahead of when their 90 day simulcast on 88.9 FM would have expired. Now off air on AM and only heard on 88.9 FM. <https://www.youtube.com/watch?v=7jHH-P9S6DQ> for a short video of them going dark. **(SA-MB)**
- 1590 KVGB KS **Great Bend** – 12/12 0158 – C2CAM outro and then dead air until almost 0600 when KVGB ID as "Voice of the Golden Belt, Great Bend," into ABC news. So GB has a double-meaning; can't find Golden Belt mentioned on their incomplete website, <http://www.kvgbam.com/> where "Talk of the Town" is the rather unspecific slogan, but Googling indicates that "Golden Belt" is the local-area sobriquet, applied to a cinema, etc. Does golden allude to canola, or what? Surely not Au (the element). **(GH-OK)**
- 1630 KCJJ IA **Iowa City** – 8/5 0629 – Fair, with ads for King's Auto Repair and DeliMart, then "The Mighty 1630 KCJJ" ID, and into chatter from morning show co-host "Captain" Steve Bridges. **(RD-ND1)**
- 1650 KBJD CO **Denver** – 8/29 0723 – Open carrier looping E/W; must be KYHN Sallisaw "Fort Smith AR"; mixed with at least two others, sports from NE/SW, i.e. KCNZ in Iowa, and Spanish religion from NW/SE, i.e. KBJD Denver. Then at 1126 I hear Osgood from CBS in the mix, about Pres. Obama's speech yesterday. Maybe that's really from KYHN undermodulating. The Spanish 1650 mentions Radio Transmundial (TWR) at 1125 UT, apparently closing a program from them, and at 1130 a definite ID in Spanish as "16-50 A-M, KBJD." **(GH-OK)**
- 1670 WPLA GA **Dry Branch** – 8/20 0640 – Poor, "Fox Sports 1670" over & over in station promos/hype. No WOZN at all. **(JJR-WI)**



#### UnID

- 1360 WJLB 8/31 2200 – UC music and jazz. This call ID was heard along with "The heartbeat of city" but I couldn't find anything on this station in the AM Listings or on the internet. WJLB is a UC FM station in Detroit. **(JR-OK)** *This is WIXI-AL (// WJLD-1400) per AM Switch this issue – DY.*

And that does it for volume #80. Number 81, and a new MW DX season starts now. See you next time. **(JDT-WA)**

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# *International DX Digest*

**Bruce Conti** contiba@gmail.com  
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“Very nice to get a new MW country in the month of August!” wrote Jim Renfrew in his log report regarding first time reception of Benin on 1566 kHz. “My Perseus should be back in operation shortly. I’ve had real difficulty getting my new Windows 7 laptop communicating with the SDR. Thanks to Chuck Hutton for sorting this out for me. I had to buy a new laptop in November after it emerged from a car accident with a fried motherboard. The other headache heading into the new season is that my Kaz flag antenna wire broke – probably due to tree motion – and this is not easy to get at – requires borrowing a truck to borrow a 60 foot ladder and then returning the ladder and then the truck. Might be a good idea to put the wire where it goes through hooks into a garden hose sleeve of some kind to minimize friction. I’ve got to take down a tree near the wire, so maybe I can get the tree guy to hoist me up there as part of the deal? We shall see! A pat on the back to Bruce for doing the heavy lifting with IDX for more years than I can calculate – is it ten now? Great job!”

Thanks for the kind words, but the contributors deserve the credit. Eleven DXers reporting from 13 locations in this edition. Without you, there would be no IDX. Want to help with the heavy lifting? Following the IDX arrangement of log info helps to lighten the workload; frequency in kHz, country, callsign, station name, location, followed by month, day and time in UTC, then log details, ending with your last name and state or province postal abbreviation in square brackets. (For email submissions, there’s no need to apply bold and italic fonts, as I clear formatting to prevent a bunch of extraneous hidden code from gumming up the works. A plain text file is fine.) Those who submit large reports without complying create a lot of extra work. However, I also realize it’s part of my job to edit reports as needed to get everything into the desired order, along with attention to details such as starting a sentence with a capital letter and using international characters – I am obsessive compulsive about some things. Whatever you can do to help is appreciated. Thanks! By the way, Jim Renfrew handed over IDX to me in the summer of 2002, so it’s been over a decade now embarking 12 years at this.

## Trans-Atlantic DX

- 153 **ALGERIA** *Chaîne 1*, Béchar JUL 31 0058 – Tentative; huge apparently-blank carrier probably this. [Connelly\*O-MA]
- 162 **FRANCE** *France Inter*, Allouis JUL 31 0058 – French woman then man, followed by soft vocal; fair. [Connelly\*O-MA] SEP 4 0350 – Pop tune, man and woman in French; ID spot at 0355+ as Radio France Int’l and mentions of Parea. SIO=343! Some co-channel interference – Russia? [Frodge-MI]
- 171 **MOROCCO** *R.Mediterranee Internationale*, Nador JUL 31 0059 – Instrumental music, Arabic talk by man; good. [Connelly\*O-MA]
- 180 unID SEP 4 0401 – Broken audio with talk; Russia? [Frodge-MI]
- 183 **GERMANY** *Europe 1*, Felsberg AUG 10 0218-0238 – Man and woman with discussion in French and took phone calls. No bottom of the hour break. 0233 bumper into English pop tune. 0237 back to phone call. Good s6-7 signal. No other LWBC frequency even close – weak audio on 162 and 171 kHz. SEP 4 0356 – Man and woman in French; top of the hour chime and E1 ID. SIO=353! about same as France on 162 kHz. [Frodge-MI]
- 198 **UNITED KINGDOM** *BBC Radio 4*, Droitwich et al. JUL 31 0058 – Interview mentioned keeping your mind active; fair. [Connelly\*O-MA]
- 216 **FRANCE** *RMC Roumoules* SEP 4 0403 – French talk – sounds like news with remotes. Poor and interference from 216 CLB Wilmington NC. [Frodge-MI]
- 225 **POLAND** *Polskie Radio*, Konstantynow JUL 31 0059 – Pop-dance music with a reggae influence; fair. [Connelly\*O-MA]
- 234 **LUXEMBOURG** *RTL Junglinster* JUL 31 0100 – Jingle, man in French; good. [Connelly\*O-MA]
- 252 **IRELAND** *RTÉ Radio 1*, Clarkestown JUL 31 0100 – News with item about “two boys found in the boot of a car”; fair. [Connelly\*O-MA]
- 549 **ALGERIA** *Jil FM*, Les Trembles JUL 31 0101 – Man in Arabic; fair. [Connelly\*O-MA] AUG 12 0100 – Fair; woman with quick *Jil FM* ID, contemporary Middle Eastern vocals. [Conti-MA] SEP 6 0200 – Good; contemporary Middle eastern vocal, canned *Jil FM* by a woman, parallel a weak 531 kHz. [Conti-NH]



- 621 **CANARY ISLANDS//SPAIN** *RNE1* synchronos JUL 31 0101 – Spanish news talk; in WZON slop. [Connelly\*O-MA]
- 684 **SPAIN** *RNE1* Sevilla JUL 31 0100 – Man in Spanish, 5+1 pips; briefly over WRKO slop. [Connelly\*O-MA] AUG 12 0200 – Good; fanfare, “Radio Nacional de España, informativos.” [Conti-MA]
- 783 **MAURITANIA** *R.Mauritanie*, Nouakchott JUL 31 0029 – Two men in Arabic; fair. [Connelly\*O-MA] AUG 12 0000 – Good; North African vocal through the hour. 0144 good; African guitar and telephone talk. [Conti-MA] AUG 18 0223 – Poor-fair peaks; typical overnight music sounding like Arabic stringed music but with an African flavor. Later at 0348 the music was more typical Arabic type. These guys have been running all night for at least 2 years now. They were the only TA noted this weekend with decent audio, although I had trace audio on 549, 837, and 891 kHz. Phasing down WBBM helped here. [Kazaross-WI]
- 783.54 unID JUL 31 0029 – Weak carrier on high side of 783 Mauritania. [Connelly\*O-MA]
- 837 **CANARY ISLANDS//SPAIN** *COPE* synchronos JUL 18 0050 – Man in Spanish; fair. [Connelly\*O-MA] SEP 6 0324 – Good; telephone talk in Spanish. [Conti-NH]
- 864 **FRANCE** *France Bleu*, Villebon-sur-Yvette JUL 31 0059 – Norah Jones “Don’t Know Why”; poor-fair with growl from presumed Iran 863.919 kHz. [Connelly\*O-MA]
- 890.98 **ALGERIA** *Chaîne 1*, JUL 31 0045 – Big carrier with poor audio. [Connelly\*O-MA] AUG 11 2335 – Strong signal with loud het against 890 WAMG, but no audio heard. [Conti-MA]
- 909 **UNITED KINGDOM** *BBC Radio 5* synchronos JUL 31 0046 – Bits of British-accented talk by man; in WAEI slop. [Connelly\*O-MA]
- 917 **NIGERIA** *R.Gotel*, Yola AUG 12 0130 – Het against 918 Spain. [Conti-MA]
- 918 **SPAIN** *R.Inter*, Ctra Humera AUG 12 0140 – Poor in 920 WHJJ splatter; talk in Spanish. [Conti-MA]
- 936 **SPAIN** *RNE5* synchronos AUG 12 0024 – Fair; talk in Spanish parallel 1107 kHz. [Conti-MA]
- 945 **FRANCE** *France Info*, Toulouse JUL 31 0045 – Man and woman in French; good. [Connelly\*O-MA] AUG 11 2350 – Good; talk in French parallel 1206 kHz. AUG 12 0100 – Good; fanfare into news, “Merci écoutez France Info” and time time check. [Conti-MA]
- 954 **SPAIN** *Onda Cero*, Madrid AUG 12 0026 – Good; talk in Spanish. [Conti-MA]
- 972 unID SEP 6 0250 – Poor to good on briefly strong fade-ins; news in unID language, continued through the hour, not parallel *NDR Info* Germany stream. Libya back on the air? [Conti-NH]
- 981 **ALGERIA** *Chaîne 2*, Algiers JUL 31 0029 – Male Arabic chanting, percussion; good. [Connelly\*O-MA] AUG 11 2340 – Fair; Arabic vocal. AUG 12 0000 – 5+1 time marker and fanfare into news. 0025 good; African vocal. [Conti-MA]
- 999 **SAUDI ARABIA** *BSKSA R.Quran*, Tabuk JUL 31 0102 – Koranic a cappella male vocal; good, over Spain. [Connelly\*O-MA]
- 999 **SPAIN** *COPE* Madrid JUL 31 0102 – Spanish news by man; a bit under Saudi Arabia. [Connelly\*O-MA]
- 1053.1 **LIBYA** *R.Libya*, Tripoli AUG 12 0100 – Loud het over *TalkSport*; Middle Eastern music. [Conti-MA]
- 1053 **UNITED KINGDOM** *TalkSport* synchronos JUL 31 0045 – Teletalk about something happening on Sunday; to fair peak over WEPN slop. [Connelly\*O-MA]
- 1062 **IRAN** *IRIB R.Iran*, Kerman AUG 12 0138 – Fair; talk parallel a good 1503 signal. [Conti-MA]
- 1089 **UNITED KINGDOM** *TalkSport* synchronos JUL 31 0031 – Advert for something described as “award winning” and “amazing”; poor in mix with a second station that seemed to have Koranic chanting. [Connelly\*O-MA] AUG 11 2328 – Over 1088 Angola het; talk. AUG 12 0030 – Good, het from 1088 no longer present; promo for international football on *TalkSport* from Wembley Stadium. [Conti-MA]
- 1098 **SPAIN** *RNE5* synchronos JUL 31 0030 – Two men in Spanish interview; fair to good. [Connelly\*O-MA] AUG 11 2356 – Good, with synchro echo; talk in Spanish parallel 1107 kHz. [Conti-MA]
- 1107 **SPAIN** *RNE5* synchronos JUL 31 0045 – Fast Spanish talk by man; in jumble. [Connelly\*O-MA]
- 1116 **SPAIN** *SER* synchronos AUG 12 0130 – Good; talking through bottom of the hour time pips. [Conti-MA]
- 1125 **SPAIN** *RNE5* synchronos AUG 11 2354 – Good; talk in Spanish parallel 1107 kHz. [Conti-MA]
- 1126.5 unID SEP 6 0225 – Het loud at times against 1125 Spain. [Conti-NH]

Radio Mauritanie en direct



- 1152 **SPAIN** *RNE5* synchros JUL 31 0045 – Echoey Spanish talk; through WWDJ slop. [Connelly\*O-MA] AUG 12 0100 – Fair; fanfare into news, “Radio Nacional de España, informativos.” [Conti-MA]
- 1206 **FRANCE** *France Info*, Bordeaux JUL 31 0046 – Man in French; to good peak. [Connelly\*O-MA]
- 1215 **UNITED KINGDOM** *Absolute Radio* synchros JUL 31 0029 – *Absolute Radio* ID; fair over Spain. 0045 Talking Heads “Once in a Lifetime”; over low het growl. [Connelly\*O-MA] SEP 6 0233 – Over Spain; Clash “Magnificent Seven” rap into ad string with quick *Absolute Radio* between ads. [Conti-NH]
- 1224 **SPAIN** *COPE* synchros JUL 31 0100 – Spanish news; poor to fair. [Connelly\*O-MA]
- 1242 **FRANCE** *France Info*, Marseille JUL 31 0030 – Woman in French; good with semi-local 1240 WBUR in westward cardioid antenna deep null. [Connelly\*O-MA] AUG 11 2351 – Good; talk in French parallel 1206 kHz. [Conti-MA]
- 1269 **GERMANY** *Deutschlandfunk*, Neumunster JUL 31 0030 – Man in German, short bit of classical music; in CJC and WTSN slop. [Connelly\*O-MA] SEP 6 0238 – Fair; jazz instrumental, then woman and man in German, parallel 756 kHz. [Conti-NH]
- 1278 **IRAN** *IRIB R.Iran*, Kermanshah JUL 31 0045 – Mideast male vocal; poor to fair. [Connelly\*O-MA]
- 1296 **SUDAN** *SNBC* Reiba JUL 31 0000 – Arabic news by man. 0045 Arabic male vocal, strings; good. [Connelly\*O-MA]
- 1305.098 **IRAN** *IRIB* Bushehr JUL 31 0030 – Growl against Spain probably this. [Connelly\*O-MA]
- 1305 **SPAIN** *RNE5* synchros JUL 31 0030 – Two men in Spanish parallel 1098; poor. [Connelly\*O-MA]
- 1314 **SPAIN** *RNE5* synchros JUL 31 0100 – 5+1 pips, ID “Radio Nacional de España, informativos”; to good peak. [Connelly\*O-MA] AUG 12 0000 – Fair over unID hets; fanfare into informativos. [Conti-MA]
- 1314 unID AUG 12 0003 – Het party against 1314 Spain from two offsets, measured 1313.906 and 1314.088 kHz. [Conti-MA]
- 1341 **NORTHERN IRELAND** *BBC R.Ulster*, Lisnagarvey JUL 31 0046 – Man in English; mixing with unID music station. [Connelly\*O-MA]
- 1377 **FRANCE** *France Info*, Lille JUL 31 0030 – France Info theme, woman in French; fair. 0101 news by woman in French; loud! [Connelly\*O-MA] AUG 12 0007 – Excellent; talk in French parallel 945 kHz. [Conti-MA]
- 1413 **SPAIN** *RNE5* synchros JUL 30 2359 – Woman in Spanish, music; to fair peak. [Connelly\*O-MA] AUG 12 0127 – Good; talk in Spanish parallel 1107 kHz. [Conti-MA]
- 1422 **ALGERIA** *R.Algérienne*, Algiers JUL 18 0051 – A cappella male Arabic vocal; dominant. 0031 pop North African music; loud! [Connelly\*O-MA] AUG 11 2330 – Good; nostalgic French vocal. AUG 12 0014 – Good; North African vocal. [Conti-MA]
- 1422 **GERMANY** *Deutschlandfunk*, Heusweiler JUL 31 0100 – Woman in German; under Algeria. [Connelly\*O-MA] AUG 12 0000 – Electronic fanfare and dueling time pips with Algeria. [Conti-MA]
- 1485 **SPAIN** *SER* synchros JUL 31 0059 – Man in Spanish; poor [Connelly\*O-MA]
- 1494 **FRANCE** *France Info* synchros JUL 31 0030 – Parallel 1377 with France Info theme; poor. [Connelly\*O-MA]
- 1521 **SAUDI ARABIA** *BSKSA* Duba JUL 18 0050 – Calm/soft-voiced man in Arabic; fair. JUL 31 0031 – Woman in Arabic, music segment, man in Arabic; good. [Connelly\*O-MA] AUG 11 2346 – Good; talk in Arabic. Loud het on car radio. [Conti-MA] SEP 4 2302 – Good with news by man in Arabic. [DeLorenzo-MA]
- 1566 **BENIN** *TWR* Parakou AUG 31 0345-0425 – Tim Tromp’s e-tip from western Michigan led me right to this, for MW country #78 here. The signal was coming in surprisingly well considering I haven’t had even a hint of it before this. Very difficult to hear much detail at all, even to ID the language, due to summer noise, so all I can say is that a woman was speaking at tune-in, then after 0400 what sounded like two men. However, the clincher was a recognizable Christian hymn at 0356, which makes this QSLable. The *TWR* schedule, as I read it, says this is a Hausa program. Thanks, Tim! [Renfrew-NY] AUG 31 0405 – Male speaker in Afro language or Afro-accented French? 0424-26 Afro vocal and back to male. 0427 flute music short into English announcements. 0428 into conventional-sounding religious music and English religious program. Fair peaks. Sacre bleu! I discovered, after the fact that I had one of my shorter antennas switched in, so it was probably in better. Mainly best in LSB, but occasionally switched to USB depending on what was on 1550/1560 kHz. Report sent to 1566@TWR.org. Thanks to tip from Tim Tromp. [Frodge-MI]



- 1575 **UNITED ARAB EMIRATES** *R.Farda*, Al Dhabiya JUL 31 0002 – Pop Mideast music; over others. 0030 pips (3+1), man with *R.Farda* ID; good. [Connelly\*O-MA]
- 1584 **SPAIN** *SER* synchros JUL 31 0101 – Echoey Spanish talk. [Connelly\*O-MA]
- Pan-American DX**
- 530 **CUBA** *R.Enciclopedia*, Villa María AUG 20 0300 – Soft jazz, talk by woman, “Transmite... Radio Enciclopedia... Cuba”; well over others. [Connelly\*Y-MA]
- 530 **CUBA** *R.Rebelde*, Guantánamo AUG 17 0409 – Weak under *R.Enciclopedia* with Lionel Richie’s “Hello” parallel 5025 kHz. [Dau-NE] AUG 21 0059 – Rebelde news by woman, electronic “splash” sounds; over *R.Enciclopedia*. [Connelly\*Y-MA]
- 540 **COLOMBIA** HJKA Bogotá AUG 20 0300 – Tentative; Spanish religious talk by man, Colombia mentions; in jumble. [Connelly\*Y-MA]
- 539.85 **NICARAGUA** YNOW *R.Corporación*, Managua AUG 21 0059 – Mostly just a het against WFLF; recently ID’ed by Terry Krueger. [Connelly\*Y-MA]
- 550 **COLOMBIA** HJHF *Señal Radio Colombia*, Marinilla AUG 20 0301 – Latin big-band jazz, *Señal Radio Colombia* net ID; dominant. Thanks to Henrik Klemetz of RealDX for ID help. Audio [www.qsl.net/walio/audio1/r\\_colombia-550\\_20130820\\_0301z.mp3](http://www.qsl.net/walio/audio1/r_colombia-550_20130820_0301z.mp3). [Connelly\*Y-MA]
- 570 **COLOMBIA** HJND *Señal Radio Colombia*, Bogotá AUG 20 0301 – Latin big-band jazz parallel 550 HJHF; under WMCA, others. [Connelly\*Y-MA]
- 570 **CUBA** *R.Rej*, Santa Clara AUG 17 0300 – Rej program; about even with WMCA. [Connelly\*Y-MA]
- 580 **CUBA** *R.Rebelde*, Mabujabo AUG 21 0059 – 9-note Rebelde sounder; mixed with WKAQ and WTAG. [Connelly\*Y-MA]
- 580 **PUERTO RICO** WKAQ San Juan JUL 30 2359 – Fast Spanish talk, WKAQ ID’s. [Connelly\*O-MA] AUG 20 0259 – WKAQ ID; loud. AUG 21 0100 – WKAQ ID; over WTAG and Cuba. [Connelly\*Y-MA]
- 590 **MEXICO** XEPH *Sabrosita 590*, México DF AUG 14 1103 – National anthem, female long canned ID fanfare into Mexi-tune. [Krueger-FL]
- 600 **CUBA** *R.Rebelde*, San Germán AUG 21 0059 – 9-note Rebelde sounder, news by woman with “splash” sounds; loud, over WYEL. [Connelly\*Y-MA]
- 600 **PUERTO RICO** WYEL Mayagüez AUG 20 0259 – Parallel 580 WKAQ with WKAQ ID; mixed with Cuba. [Connelly\*Y-MA]
- 610 **CUBA** *R.Rebelde*, multiple sites AUG 21 0059 – Parallel 600 with news by woman, “splash” sounds; mixed with WIOD. [Connelly\*Y-MA]
- 620 **CUBA** *R.Rebelde*, Colón AUG 21 0059 – Parallel 600 with news by woman, “splash” sounds; mixed with WSNR and WZON. [Connelly\*Y-MA]
- 630 **CUBA** *R.Progreso*, multiple sites AUG 21 0101 – Parallel 640 with female vocal; under WPRO. [Connelly\*Y-MA]
- 640 **CUBA** *R.Progreso*, two sites AUG 21 0101 – Parallel 630 with female vocal; dominant. [Connelly\*Y-MA]
- 640 **GADELOUPE** *Guadeloupe Première*, Point-à-Pitre AUG 12 0200 – Under CBN Newfoundland; announcement in French with Première mention. [Conti-MA]
- 650 **COLOMBIA** HJKH RCN *Antena Dos*, Bogotá AUG 20 0300 – *Antena Dos* ID, promo for “deportivo” and “fútbol”; over others. [Connelly\*Y-MA]
- 650 **CUBA** *R.Progreso*, Ciego de Avila AUG 21 0101 – Parallel 640 with female vocal; over WSRO, HJKH, WSM. [Connelly\*Y-MA]
- 660 **MEXICO** XEEY *La Kaliente*, Aguascalientes, Ags. SEP 4 0511 – Break in Mexican music for ID mentioning FM 102.9. Best place to look up AM/FM parallels is [www.mexicoradiotv.com/frec\\_am.htm](http://www.mexicoradiotv.com/frec_am.htm) where we find XEEY + FM 102.9 50,000 10,000 so if the powers are believed it’s also the most potent XE at night on 660 kHz. Monterrey and Delicias are more common here. This was dominating for a while, then over to KSKY. [Hauser-OK]
- 660 **MEXICO** XEAR *La Mexicana*, Tampico, Tamps. AUG 11 1037 – Male canned “La Mexicana 101 punto 7” after every song, national anthem at 1059. Excellent on my local sunrise peak. No joy with John Santosuosso’s Radio Chan Santa Cruz here, at least yet. [Krueger-FL]
- 670 **CUBA** *R.Rebelde*, multiple sites JUL 18 0059 – Parallel 1180 with political speech; good. [Connelly\*O-MA] AUG 21 0059 – Two Rebelde outlets with about 1 second delay between: 9-note fanfare, news by woman with “splashes”; over YVLL and WWFE. [Connelly\*Y-MA]
- 680 **MEXICO** XEORO Guasave, Sin. AUG 29 1157 – “La Mera Jefa” ID atop the interference, i.e. XEORO 1/0.5 kW per IRCA Log. Translation per Henrik Klemetz, “The adjective mero, mera in the feminine form, is an intensifier meaning mere, pure. In Mexico and areas of

Mexican influence this word is frequently used and so, when doubled, it has acquired the additional meaning of 'real Mexican', for instance in the phrase *la música mera mera*, which suggests real Mexican music. Incidentally, 1050 WBQH serving Washington DC, uses the slogan *La mera mera*. *La jefa* is the chief, the boss, and so *La mera jefa* will be understood as the top leader or real leader of the group." [Hauser-OK]

- 680 **PUERTO RICO** WAPA San Juan AUG 21 0100 – “Esta es la Poderosa... WAPA”; in the clear during a pause in the talk on stronger WRKO. Audio [www.qsl.net/wa1ion/audio1/wapa\\_and\\_wrko-680\\_20130821\\_0100z.mp3](http://www.qsl.net/wa1ion/audio1/wapa_and_wrko-680_20130821_0100z.mp3). [Connelly\*Y-MA]
- 690 **BRAZIL** ZYH587 *R.Shalom*, Fortaleza JUL 31 0001 – Portuguese talk by man, music; mixing with CKGM. [Connelly\*O-MA]
- 690 **COLOMBIA** HJ CZ *W Radio*, Bogotá AUG 20 0301 – “Classico... W Radio” net ID, light pop music; mixed with CKGM. [Connelly\*Y-MA]
- 690 **CUBA** *R.Progreso*, Santa Clara AUG 21 0101 – Female vocal parallel 640; over CKGM, WOKV, HJ CZ. [Connelly\*Y-MA]
- 710 **CUBA** *R.Rebelde*, multiple sites AUG 21 0059 – Parallel 600 with 9-note Rebelde sounder, news by woman with “splash” sounds, some echo; mixed with WOR. [Connelly\*Y-MA]
- 720 **MEXICO** XEAVR *R.Fórmula*, Veracruz, Ver. AUG 10 1057 – Female, “Grupo... México... Radio Fórmula, Veracruz... la tierra de México...” Strong, Catholic robot singing and male with pieces of rosary injected for at least 15 minutes before, maybe *R.Católica*, Managua (often heard), but yet the vocals ending and this with a ID sure was coincidentally seamless, if so. [Krueger-FL]
- 730 **CUBA** *R.Progreso*, La Fe AUG 21 0101 – Female vocal parallel 640; mixed with CKAC and apparent WLTQ. [Connelly\*Y-MA]
- 730 **MEXICO** XEHB Hidalgo del Parral, Chih. AUG 15 0608 – Choral Mexican national anthem is playing, apparent long-version if it started circa 0600; 0609 short Chihuahua state anthem with choir, but mainly male soloist; listen for keyword “chihuahuense” not to mix it with other states. Plenty of interference tonite rather than often dominant signal, so maybe not running day power of 50 kW. 0610 full ID as Ke Buena, XEHB on FM, and AM 730, street address in Hidalgo del Parral; mentions Radiorama group “la cadena que une a México”; “no hay más; estamos contigo” and into banda music. [Hauser-OK]
- 740 **MEXICO** XECAQ *R.Fórmula*, Cancun JUL 22 0300 – *R.Fórmula* ID’s, local ads; under domestic WSB Florida and another Latin American station. [Saylor-NC]
- 750 **CUBA** *R.Progreso*, Palmira AUG 21 0101 – Female vocal parallel 640; mixed with WSB, YVKS, others. [Connelly\*Y-MA]
- 750 **MEXICO** XETI *La Huasteca*, Tempoal, Ver. AUG 14 1038 – “La Huasteca 750 AM” at tune-in, into Mexi-tune. [Krueger-FL]
- 750 **VENEZUELA** YVKS RCR Caracas JUL 31 0031 – “RCR presenta... noticias”; fair/noisy. [Connelly\*O-MA] AUG 12 0200 – Fair; telephone talk, promo, “...por RCR 750 AM.” [Conti-MA] AUG 19 0102 – RCR ID, talk interspersed with music; good, over others. [Connelly\*Y-MA]
- 760 **BRAZIL** ZYH588 *R.Uirapuru*, Fortaleza JUL 31 0000 – Portuguese talk by man, Fortaleza mention; to fair peak after WVNE sign-off. [Connelly\*O-MA]
- 760 **COLOMBIA** HJAJ RCN Barranquilla JUL 22 0300 – “RCN, la Radio” ID by man, ad for Topi (?) cola, 4 beeps on the hour over a music bed; over *R.Progreso* Cuba. [Saylor-NC]
- 770 **CUBA** *R.Rebelde*, Victoria de las Tunas AUG 20 0300 – Political talk, sped-up 9-note fanfare parallel 670, somewhat distorted; mixed with WABC. [Connelly\*Y-MA]
- 780 **CUBA** *R.Reloj*, La Mercedes, Granma AUG 15 1038 – “RR” sounders the only thing making it through every :03 past the minute, under presumed XEMTS. Not listed by Rodriguez years ago, not on the becoming-dated EcuRed list, but this was listed in the 1997 WRTH and thus on my list, so until something more definitive appears I’ll go with this site. First time heard here, I think, and not noted on my extensive middle and southern Florida Keys scans in October, 2012. [Krueger-FL]
- 780 **VENEZUELA** YVMN *R.Coro*, Coro AUG 1 0200 – Talk, “Más potente, informativo de Falcón, Radio Coro”; good. [Connelly\*Y-MA] AUG 12 0138 – Fair; time check, “Nueve ocho minutos,” and classic salsa. [Conti-MA]
- 790 **CUBA** *R.Reloj*, Pinar del Río and Holguín AUG 12 0201 – Under WPRV; delay between stations with echoed RR code. [Conti-MA] AUG 19 0102 – Ticks, beeps on two Reloj audios with about one second delay between; over WPRV. [Connelly\*Y-MA]
- 800 **BONAIRE** PJB *TransWorld Radio*, Kralendijk AUG 1 0200 – “Radio Transmundial, ocho centos AM, Bonaire, Antillas Holandesas” ID; good. [Connelly\*Y-MA]

- 810 **BAHAMAS** ZNS3 Freeport, Grand Bahama JUL 23 0356 – Orchestral Bahamian national anthem, into lively reggae singing ID, “Yeah! ...ah ZNS-1, ah ZNS-1, ah ZNS-1 that’s all I ever want, ah ZNS-1, ah ZNS-1, ah ZNS-1 and that’s what I want to be ...ah ZNS-1, ah ZNS-1, ah ZNS-1, and I am proud that I am, ah ZNS-1, ah ZNS-1, ah ZNS-1,” then talk by male announcer about a movie episode being shot in Nassau. Good on top of Spanish jumble. [Saylor-NC]
- 820 **CUBA** *R.Ciudad de la Habana*, Arroyo Arenas AUG 28 0900 – Over/under WNYC; signature piano ‘interval signal’ marking the hour, 0901 signature piano and *R.Ciudad de la Habana* ID mentioning 94.7, listed on 94.9 FM. [Conti-NH]
- 840 **CUBA** CMKC *R.Revolución*, Palma Soriano JUL 23 0400 – Cuban anthem, ID as “CMKC, Radio Revolución” over trumpet tune; another Cuban station national anthem at 0401. Even levels with WHAS. [Saylor-NC]
- 860 **CUBA** *R.Reloj*, AUG 21 0100 – Reloj program; mixed with CJBC. [Connelly\*Y-MA]
- 860 **ST. KITTS & NEVIS** VON Bath Village JUL 18 0050 – Caribbean-accented man on phone-in show; to fair peak. [Connelly\*O-MA]
- 870 **CUBA** *R.Reloj*, multiple sites AUG 12 0153 – Double RR code with significant delay between two stations. [Conti-MA] AUG 21 0100 – “Wobbling” Reloj station; mixed with WHCU and WLVP. [Connelly\*Y-MA]
- 900 **CUBA** *R.Progreso*, San Germán AUG 20 0300 – Festive music with vocal, percussion parallel 640; over jumble. [Connelly\*Y-MA]
- 910 **CUBA** *R.Cadena Agramonte*, Camagüey AUG 19 0102 – ID, “Radio Cadena Agramonte, Camagüey, en Cuba”; dominant. Audio [www.qsl.net/wa1ion/audio1/cuba-910\\_20130819\\_0102z.mp3](http://www.qsl.net/wa1ion/audio1/cuba-910_20130819_0102z.mp3). [Connelly\*Y-MA] AUG 26 0300 – Good; ascending four notes marking the hour into canned ID, “Desde la cuna de el mayor, transmite Radio Cadena Agramonte, Camagüey, Cuba.” [Conti-NH]
- 940 **PUERTO RICO** WIPR *Máxima 940*, San Juan JUL 18 0100 – ID “San Juan, Máxima, Nueve Cuarenta”; good. [Connelly\*O-MA] JUL 27 0400 – Pop Spanish music, ID by man “Máxima nueve cuarenta” and “gracias... muchachos”; carrier from likely XEQ on 939.88 present. [Saylor-NC] AUG 1 0200 – ID, “Máxima, Nueve Cuarenta”; to good peak. [Connelly\*Y-MA] AUG 12 0159 – Good; canned ID, “Esta es WIPR AM San Juan, Máxima 940... gracias...” and nostalgia. [Conti-MA]
- 950 **CUBA** *R.Reloj*, two sites AUG 20 0259 – Reloj “RR” beeps, ticks; mixed with WKDN, others. [Connelly\*Y-MA]
- 980 **CUBA** *R.Reloj*, Moa AUG 19 0102 – Ticks, beeps, Spanish talk by man; mixed with WTEM, WOFX. [Connelly\*Y-MA]
- 980 **CUBA** *Radio COCO*, La Cruz JUL 22 0300 – “Esta es la C-O-C-O, CMCK” by woman, light Latin American music. [Saylor-NC]
- 990 **MEXICO** XECL *La Rocola*, Mexicali, BCN SEP 4 1212 – Fast SAH from Spanish heading east/west rather than north/south, talking about the “Valle de Mexicali” and earthquakes; 1215 into song. Must be per Cantú XECL. A few minutes earlier, shortly after sunrise here, the usual northwest Mexicans were still in weakly on 650, 710, 730, 870 kHz. [Hauser-OK] In at twilight daily; plays many U.S. English rock records and ID’s as “Rocola 990.” [Schiller-UT]
- 1000 **COLOMBIA** HJAQ RCN Cartagena AUG 12 0107 – Fair; fútbol commentary parallel a strong 760 kHz. [Conti-MA]
- 1000 **CUBA** *R.Granma*, Media Luna JUL 22 0300 – Granma signature tune, “transmite, Radio Granma” by woman, 9 notes on chimes, talk by man and woman in Spanish. [Saylor-NC] AUG 25 0800 – Under WMVP; familiar ‘interval signal’/sounder. [Conti-NH]
- 1020 **CUBA** *Cadena CMKS/R.Trinchera AntiImperialista*, Baracoa JUL 23 0400 – Mixing with (but well over) *R.Guamá* and *R.Reloj*. National anthem then “esta Guantánamo, provincia más... Cuba” by man and “CMKS, Radio Trinchera AntiImperialista...” by woman over song “Guantanamera,” followed by the first five notes of “Guantanamera” on chimes, then light music with a slogan of something like “...mejor noches” repeated in Spanish by man then woman over top. [Saylor-NC]
- 1020 **CUBA** *R.Reloj*, Victoria de las Tunas AUG 25 0801 – Under KDKA, over unID Spanish vocal; ticker and RR Morse code. [Conti-NH]
- 1050 **MEXICO** XEBCS *La Radio de Sudcalifornia*, La Paz, BCS SEP 4 1216 – Mentions California, Spanish timecheck for 6:16 plus some seconds, music. At first I thought it was XED Mexicali, like on 990, but it’s only 5:16 there, so must be per Cantú the other 10 kW “daytimer” XEBCS 10,000 D. There are no other XEs in the UTC-6 zone now. Followed at 1218 a federal PSA mentioning Chilpancingo, Guerrero, which of course is no clue to the origin of this. [Hauser-OK]

- 1060 **CUBA** *Radio 26*, Jovellanos AUG 25 0800 – Over/under KYW; canned ID with piano, “Esta es Radio 26... desde Matanzas, Cuba,” and program intro, “Radio 26 presenta... Siempre joven.” [Conti-NH]
- 1070.123 unID AUG 12 0100 – Loud het against 1070 domestics. [Conti-MA]
- 1080 **CUBA** *R.Cadena Habana/R.Ciudad de la Habana*, Villa María JUL 23 0358 – ID, “Esta la capital, transmite Radio Cadena Habana, la emisora de la música Cubana” by man over jazzy music then what sounded like a sign-off announcement including FM frequency, ending with “buenas noches” then into Cuban anthem. Following this was some type of announcement by a deep-voiced man in Spanish with the sound of pouring liquid, clinking glasses and “salute” then into a romantic Cuban vocal song. Following the song was a *R.Ciudad de la Habana* ID by a man. The audio on Ciudad had a noticeable hum not present on Cadena’s program. I think this confirms suspicions that *R.Cadena* is carrying *R.Ciudad* programming. [Saylor-NC] AUG 26 0801 – Under WTIC; Michael Jackson “I Just Can’t Stop Loving You,” then signature *R.Ciudad* piano theme music marking the hour, parallel 820 kHz. [Conti-NH]
- 1090 **MEXICO** XEPRS Rosarita, BCN – Twilight daily; ESPN in English, “The Mighty 1090.” [Schiller-UT]
- 1100 **BRAZIL** ZYK694 *R.Globo*, São Paulo AUG 25 0700 – Under WTAM open carrier; “Rádio Globo” promo in Portuguese. [Conti-NH]
- 1110 **CUBA** *R.Angulo*, Holguín AUG 25 1015 – Very good with WBT mostly nulled. Nice traditional Cuban oldies vocals. No trace of presumed still parallel 1100, and I see I didn’t find 1100 on my October 2012 middle-Keys band scan. But it is listed as only 1 kW. [Krueger-FL] AUG 26 0600 – Under WBT; alternating man and woman with *R.Angulo* internet promo. [Conti-NH]
- 1110 **VENEZUELA** YVQT *R.Carúpano*, Carúpano JUL 18 0059 – ID “en Venezuela, Carúpano”; over others. [Connelly\*O-MA] AUG 12 0129 – Fair; “La hora de Venezuela” time check, contemporary Latino music. [Conti-MA]
- 1140 **CUBA** *R.Surco*, Morón AUG 12 0130 – Fair; canned program ID by woman with reverb, “La Noche Sube.” 0200 under CBI Nova Scotia; familiar organ theme music of canned ID. [Conti-MA]
- 1140 **CUBA** *R.Cadena Agramonte*, Camagüey AUG 26 0800 – Over/under WRVA; ascending four-note time marker and canned ID. [Conti-NH]
- 1140 **CUBA** *R.Musical Nacional*, Villa Clara AUG 28 0800 – Over/under WRVA and *R.Rebelde*; classical harp of hourly canned ID. [Conti-NH]
- 1140 **CUBA** *R.Bayamo*, Media Luna AUG 26 0700 – In co-channel jumble; signature doorbells parallel 1150 and 1620 kHz. [Conti-NH]
- 1150 **CUBA** *R.Bayamo*, Bueycito SEP 5 0500 – Under WWDJ; doorbells marking the hour parallel 1140 and 1620 kHz. [Conti-NH]
- 1160 **BERMUDA** VSB3 Hamilton JUL 18 0059 – “BBC World Service” net ID by woman; mixed with WOBN. [Connelly\*O-MA] AUG 12 0159 – Fair, over WVNJ; promo, “...on air and online, on the BBC World Service,” and “This is the BBC World Service” followed by another promo and time marker. [Conti-MA]
- 1170 **COLOMBIA** HJNW *R.Caracol*, Cartagena AUG 12 0201 – Over/under unID tropical music; “Radio Caracol” promo. [Conti-MA]
- 1180 **CUBA** *R.Rebelde*, multiple sites JUL 18 0059 – Parallel 670 with political speech by man; good. [Connelly\*O-MA] AUG 12 0200 – Atop the frequency with synchro echo; Latino rap music parallel 600 kHz. [Conti-MA] AUG 21 0059 – Parallel 600 with 9-note sounder, news by woman with “splash” sounds, some echo; over WHAM. [Connelly\*Y-MA]
- 1180 **CUBA** *Rebelde FM*, multiple sites AUG 11 1358 – What a mess this morning: about half of the audible ones are carrying *Rebelde FM*, a real audio train wreck against the other half with “AM” *Rebelde*. [Krueger-FL]
- 1220 **BRAZIL** ZYJ458 *R.Globo*, Rio de Janeiro JUL 22 0300 – Portuguese talk by man with sliding sound effect, ID’s and Globo signature tune, parallel 1100 weaker. Heard throughout the week with very good signals during most evenings, as early as 0100 on JUL 24. [Saylor-NC] JUL 31 0001 – Globo ID, sweep tones; mixing with WWSF. 0046 fast Portuguese talk by man; loud at times over WHKW and WWSF. [Connelly\*O-MA]
- 1220 **COLOMBIA** unID AUG 12 0134 – Fair; fútbol commentary in Spanish, “¡Go-o-o-o-o-o-l!” Two RCN affiliates listed. [Conti-MA]



- 1220 **CUBA** *R.Caribe*, La Fé, Isla de la Juventud AUG 15 0000 – Female, “...la emisora Radio Caribe” right at tune-in, techno-ish Cuban pop vocal, “la gran musical Radio Caribe” after song. [Krueger-FL]
- 1259.85 unID JUL 31 0030 – Low growl against CKHJ and WMKI; not known if of foreign or domestic origin. [Connelly\*O-MA]
- 1300 **MEXICO** XEP Cd. Juárez, Chih. AUG 18 0600 – R.Trece ID, and plug “Radio México Noticias,” and seemingly rapidly summarizing all the news blox during the day; “Mil, trescientos, lo original,” 0601 choral national anthem but blessedly brief, 0603 finally full local ID as XEP, 38,000 watts, and into “música de siempre” so must have quite a mixed format. Then fades down; it had been dominating and looping west/southwest, so I figured it must be this station. 2013 WRTH implies it’s 50 kW fulltime; IRCA Mexican Log of last year shows 500 watts at night; currently Cantú shows 38 kW day, 200 watts night! Which can we believe? [Hauser-OK]
- 1320 **CUBA** *R.Artemisa*, Artemisa AUG 25 1028 – Mostly poor under another Cuban and someone domestic with canned nostalgia format. Parallel 1020 kHz. [Krueger-FL]
- 1350 **CUBA** *R.Ciudad del Mar*, Aguada AUG 25 1034 – Good in passing with salasa-ish Cuban vocals. [Krueger-FL]
- 1550 **CUBA** *R.Rebelde* multiple sites AUG 21 0059 – Parallel 600 with 9-note sounder, news with “splash” sounds; slightly over domestic jumble. [Connelly\*Y-MA]
- 1610 **ANGUILLA** *Caribbean Beacon*, The Valley JUL 31 0029 – U.S.-accent female preacher; good, over others. [Connelly\*O-MA]
- 1620 **CUBA** *R.Rebelde*, multiple sites JUL 31 0030 – Multiple echoey Rebelde outlets with talk by man parallel 1180 kHz. [Connelly\*O-MA] AUG 12 0200 – Good with synchro echo; Latino rap parallel 1180 kHz. [Conti-MA] AUG 21 0059 – Parallel 600 with 9-note sounder, news with “splash” sounds; over others. [Connelly\*Y-MA]
- 1700 **MEXICO** XEPE Tecate, BCN – Daily boomer at dusk (good to use as an indicator of conditions). Suspect they’re running way more than 10 kW, as I heard them regularly in north Idaho too. ESPN. [Schiller-UT]
- 2910 **MEXICO** XEVT Villahermosa, Tab. SEP 5 1134 – Man and woman alternating with local news in Spanish, peaks around 1137, fading 1140 with time check as they go into ads with music bits. Awake early enough today a semihour before local sunrise, I again seek this regular third harmonic of 970 XEVT as heard last season, surely same again with recognizable format. Still fighting atmospheric noise level and local line noise or something cutting on and off. This was first heard Dec 28, 2012 as in DXLD 13-01, then frequently logged in Jan, Feb and Mar, last heard April 27. DST schedule is approx 10-05 UTC. [Hauser-OK]



### Contributors

Mark Connelly WA1ION, Orleans MA; Microtelecom Perseus, cardioid-pattern Micro-SuperLoop on car roof, square, 2 m per side, with Clifton Laboratories Z10130A amp on east bottom corner to speaker wire to 2:1 xfmr to W7IUV amp, and 9:1 xfmr on west corner to speaker wire to 500 ohm null-adjust potentiometer.

Mark Connelly WA1ION, South Yarmouth MA; Perseus, north-null cardioid-pattern SuperLoop, 15 m vertical by 20 m horizontal, base height 1.2 m.

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

Bruce Conti WPC1CAT, Rockport MA; Excalibur, 1.8 x 2.4-m variable termination SuperLoop east.

Rick Dau, South Omaha, NE; Sangean ATS-909X, Quantum QX Pro loop.

Marc DeLorenzo, South Dennis MA; JRC NRD-525, 60 x 90 Delta with remote variable termination.

Harold Frodge, Midland MI; Drake R8B, 125-ft bow-tie, 85-ft random wire, 180-ft center-fed random wire.

Glenn Hauser, Enid OK; DX-398 with internal antenna.

Neil Kazaross, Grafton WI; Perseus and Phased BOG System at 63° 660 ft // 490 ft.

Terry L. Krueger, Clearwater FL; NRD-535 with dipole, NRD-515 with the custom active ferrite loop.

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

Brett Saylor, Duck NC; Perseus SDR, corner-fed 16 x 36-ft terminated SuperLoop with a Wellbrook FLG-100 amp.

Ron Schiller, St George UT; Grundig R350, Crane CC Radio.

## International News

**BRITISH VIRGIN ISLANDS:** "Broadcasting from 300 feet high atop Baughers Bay, Tortola... this is radio station ZedBVI." The entire 300 foot tower is completed and they are back to broadcasting from it instead of the temporary longwire. The previous tower was downed by a drunk driver in March. [Paul Walker, Facebook]

**CYPRUS:** TWR is broadcasting "Syria al Amal" to Syria on 1233 kHz. [mediumwave.info]

**EMWG:** The *Euro-African Medium Wave Guide* (EMWG) website is no more, but EMWG is still alive, integrated into the Herman Boel website. The domain [www.emwg.info](http://www.emwg.info) will redirect to the new location. The EMWG mailing list will be deleted. EMWG will continue to be updated, the PDF and Perseus editions are still available. Only the location and environment of the data changed. [Herman Boel, *emwg*]

**GERMANY:** German public broadcasters *Deutschlandfunk* and *Deutschland Radio Kultur* will decommission their mediumwave and longwave transmitters by the end of 2014, according to RadioNL. The money saved will go into the expansion of DAB+ transmission capabilities. *Deutschlandfunk* has transmitters on 153 and 207 longwave, along with seven MW frequencies including 756, 1269, and 1422 kHz. *Deutschland Radio Kultur* has stations on 177 and 990 kHz, with 990 scheduled to shutdown on September 4. The LW power levels are 500 kW and the MW power levels between 100 and 400 kW. Broadcasters expect to save millions of Euros every year in electricity costs. [mediumwave.info and various sources]

**PHILIPPINES:** 810 DZRJ is now on 24 hours, with BBC World Service relay midnight – 5 a.m. local time. [Bruce Portzer, *RealDX*]

**POLAND:** 963 *Twoje Radio* Brzesko is drifting around 964 kHz. I observe it already for some time and finally heard their ID for the first time, "Twoje Radio AM, Brzesko 963." It was on 964.5 kHz. [Karel Honzik, *mwoffsets*]

73 and Good DX!

## Notice -- Receiver for Auction

### Perseus software-defined radio

Donated by John Callarman, National Radio Club member



The Perseus is a direct-sampling software-defined radio (SDR) receiver offering continuous 10 kHz - 30 MHz coverage. Unit is in like-new condition, and comes complete with USB cord, AC adapter, SO239 to BNC RF adapter, software CD, and manual. More information on this receiver can be found on line at various sites, including [microtelecom.it/perseus](http://microtelecom.it/perseus).

Item goes to the highest bidder. In the event of a tie, winner will be determined by drawing. Shipping to be paid by winner. Pre-shipping weight is 1 lb 12 oz.

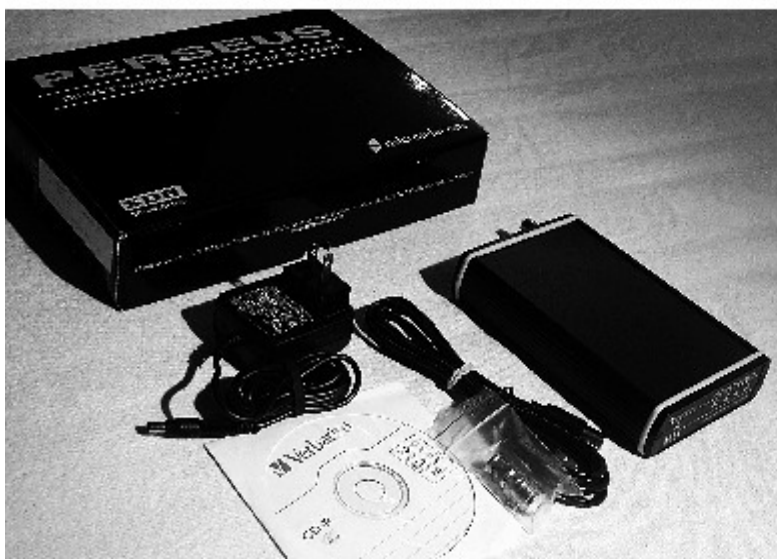
**\* Starting bid is \$950.00 \***

Send your bid and contact information to:

**NATIONAL RADIO CLUB**

**P. O. Box 473251**

**Aurora, CO 80047-3251**



Shipping is restricted to U.S. only. Bids will be accepted only by USPS mail and must be received by November 1, 2013. All proceeds go to the National Radio Club, a non-profit organization for the medium wave DXer.



# Pro Sports Networks

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## Network listings for professional sports play-by-play coverage

Here is National Football League (NFL) flagship information Internet searches. Some of the network lists are undated, so I do not know if they are for the current season. I have not yet located the list for the Tampa Bay Buccaneers. And some team sites do not list the announcer team, while others have bios that are a few seasons' old, so I do not know if they are current.

The announcer names are found at this URL:

[http://en.wikipedia.org/wiki/List\\_of\\_current\\_NFL\\_broadcasters](http://en.wikipedia.org/wiki/List_of_current_NFL_broadcasters)

But the footnotes on that site all point to web page retrievals in 2012. That URL also has flagship and network size information. The site <http://www.freqseek.com/nfl-radio-networks.aspx> has the NFL networks, but there is no source information there. And I do not know if the site honors the "Do Not Reproduce" statement at the bottom of some of the network list pages. I will not include a network in this column if there is a "DNR" warning on the web page.

There is a site <http://nflfootballtv.com/onlineradio.html> that has Internet online radio - streaming audio and video information on each team.

The Westwood One Radio Network (renamed to Dial Global Sports) will broadcast NFL games; the schedule, network lists, and announcer lists are found at this URL:

<http://www.nfl.com/tvradio/broadcasters/westwoodone>

I checked, and some of the information on that web site has the 2008 season schedule, so I am not sure about Dial Global coverage.

As always, any of these network lists can change during the season. Please send me any additions and/or corrections. Thanks.

Arizona Cardinals	620	KTAR-AZ	(EE)	Dave Pasch, Ron Wolfey, Paul Calvisi
	92.3	KTAR-AZ	(EE)	
	710	KBMB-AZ	(SS)	Gabriel Trujillo, Rolando Cantu
Atlanta Falcons	790	WQXI-GA		*Wes Durham, Dave Archer
	94.1	WSTR-GA		
Baltimore Ravens	1090	WBAL-MD		*Gerry Sandusky, Qadry Ismail. Stan White
	97.9	WIYY-MD		
Buffalo Bills	550	WGR-NY		John Murphy, Mark Kelso
	1520	WWKB-NY		c
Carolina Panthers	1110	WBT-NC		Mick Mixon, Eugene Robinson, Jim Szoke, Sharon Thorsland, Greg Brannon
	99.3	WBT-SC		
Chicago Bears	780	WBBM-IL	(EE)	Jeff Joniak, Tom Thayer, Zach Zaidman
	105.9	WCFS-IL		
	107.5	WLAY-IL	(SS)	*Jose Luis Marquez, Liz Liz
Cincinnati Bengals	1530	WCKY-OH		Dan Hoard, Dave Lapham
	700	WLW-OH		
	102.7	WEBN-OH		
Cleveland Browns	850	WKNR-OH		Jim Donovan, Doug Dieken, Jamir Howerton
	98.5	WKRK-OH		
	95.5	WNCX-OH		
Dallas Cowboys	105.3	KRLD-TX	(EE)	Brad Sham, Babe Laufenburg, Kristi Scales
	1080	KRLD-TX		f
	103.1	KVJM-TX	(SS)	*Victor Villalba, Andres Arce, Luiz Perez
Denver Broncos	850	KOA-CO		Dave Logan, Ed McCaffrey, Andy Lindahl
Detroit Lions	97.1	WXYZ-MI		*Dan Miller, Jim Brandstatter, Tony Ortiz
	1270	WXYZ-MI		
Green Bay Packers	620	WTMJ-WI		Wayne Larrivee, Larry McCarren
Houston Texans	610	KILT-TX		Marc Vandermeer, Andre Ware, Rich Lord
	100.3	KILT-TX		
Indianapolis Colts	97.1	WLHK-IN		Bob Lamey, Will Wolford, Kevin Lee
	1070	WFNI-IN		

Jacksonville Jaguars	690	WOKV-FL	(EE)	Brian Sexton, Jeff Langeman, Tony Boselli, Brent Martineau
	105.3	WJSJ-FL	(SS)	
Kansas City Chiefs	101.1	KCFX-MO		Mitch Holthus, Len Dawson, Kendall Gammon
Miami Dolphins	940	WINZ-FL	(EE)	Jimmy Cefalo, Bob Griese, Joe Rose, Keith Sims, Kim Bokamper
	105.9	WBGG-FL	(EE)	
	1140	WQBA-FL	(SS)	*Raul Striker, Jr., Stefano Fusaro
Minnesota Vikings	100.3	KFAN-MN		Paul Allen, Pete Bercich
	1130	KTCN-MN		
New England Patriots	98.5	WBZ-MA		*Gil Santos, Scott Zolak
New Orleans Saints	870	WWL-LA	(EE)	Jim Henderson, Hokie Gajan, Kristian Garic
	105.3	WWL -LA	(EE)	
	830	WFNO-LA	(SS)	Marco Garcia, Emilio Paralta
New York Giants	660	WFAN-NY		Chris Carino, Roman Oben, Paul Dottino
	101.9	WFAN-NY		
New York Jets	98.7	WEPN-NY	(EE)	*Bob Wischusen, Marty Lyons, Larry Hardesty
	1050	WEPN-NY	(SS)	
Oakland Raiders	95.7	KGMZ-CA		Greg Papa, Tom Flores
Philadelphia Eagles	94.1	WIP-PA	(EE)	*Merrill Reese, Mike Quick, Howard Eskin
	1680	WTTM-NJ	(SS)	Rickie Ricardo, Felix DeJesus, Will Kulik
Pittsburgh Steelers	970	WBGG-PA		Bill Hillgrove, Tunch Ilkin, Craig Wolfey
	102.5	WDVE-PA		
Saint Louis Rams	101.1	WXOS-MO		Steve Savard, D'Marco Farr, Tony Softli
San Diego Chargers	105.3	KIOZ-CA	(EE)	Josh Lewin, Hank Bauer. Mike Costa
	107.3	XHFG-BC	(SS)	Jorge Villanueva
San Francisco 49ers	680	KNBR-CA	(EE)	Ted Robinson, Eric Davis, Rod Brooks
	1050	KNBR-CA	(EE)	
	107.7	KSAN-CA	(EE)	
	1010	KIQI-CA	(SS)	Fernando Arias, Ambrosio Rico
	990	KATD-CA	(SS)	
Seattle Seahawks	710	KIRO-WA		Steve Raible, Warren Moon
	97.3	KIRO-WA		
Tampa Bay Buccaneers	620	WDAE-FL		Gary Deckerhoff, Dave Moore, T. J. Rives
	103.5	WFUS-FL		
Tennessee Titans	104.5	WGFX-TN		*Mike Keith, Frank Wycheck, Cldy Allison
Washington Redskins	980	WTEM-DC		Larry Michael, Sam Huff, Sonny Jurgensen, Rick "Doc" Walker

Arizona Cardinals 2013 (EE) Dave Pasch, Ron Wolfey, Paul Calvisi

<http://www.azcardinals.com/photos-videos/weekly-programming.html> (8/9/2013)

560	KBLU-AZ	980	KNTR-AZ	1340	KIKO-AZ	92.1	KZUA-AZ
600	KVNA-AZ	1130	KQNA-AZ	1400	KRVZ-AZ	92.3	<u>KTAR-FM-AZ</u>
620	<u>KTAR-AZ</u>	1230	KATO-AZ			94.3	KDDL-AZ
780	KAZM-AZ	1290	KCUB-AZ			100.1	KGMN-AZ

Arizona Cardinals 2013 (SS) Gabriel Trujillo, Rolando Cantu

<http://www.azcardinals.com/photos-videos/spanish-radio.html> (8/9/2013)

710 KBMB-AZ

Atlanta Falcons 2013 -Wes Durham, Dave Archer

<http://www.atlantafalcons.com/on-the-air/falcons-radio-network/radio-affiliate-stations.html> (8/29)

550	WDUN-GA	1150	WJEM-GA g		WMVG-GA	99.3	WCON-FM-GA
630	WNEG-GA	1240	WGGA-GA	1580	WIOL-GA	101.1	WTGA-FM-GA
790	<u>WQXI-GA</u>	1250	WSRA-GA			101.9	WJFL-GA
	WSFN-GA	1310	WHEP-AL	1230	WBLI-GA	102.1	WZAT-GA
800	WJAT-GA	1350	WFNS-GA			102.9	WDUN-FM-GA
850	WPTB-GA		WRWR-GA	92.1	WDDQ-GA	103.7	W279BC-GA
860	WDMG-GA	1370	WLOP-GA		WPEH-FM-GA	103.9	WYAB-MS
940	WMAC-GA		WDEF-TN	94.1	<u>WSTR-GA</u>	104.9	WCCP-FM-SC
960	WRFC-GA	1420	WPEH-GA	95.7	WATG-GA	105.5	WIFO-FM-GA g
970	WVOP-GA	1450	WKEU-GA		WIOL-FM-GA	107.5	WTIF-GA

Baltimore Ravens 2013 -Gerry Sandusky, Qadry Ismail. Stan White

<http://www.baltimoreravens.com/gameday/media-coverage/affiliate-network.html> (8/9/2013)

910	WSBA-PA	1340	WEPM-WV	1490	WARK-MD	97.7	WMDM-MD
1090	<u>WBAL-MD</u>	1430	WNAV-MD	1500	WFED-DC	97.9	<u>WIYY-MD</u>
1240	WCEM-MD	1450	WTHU-MD			106.3	WCEM-FM-MD
1290	WWTX-DE	1470	WTTR-MD	92.5	WICO-FM-MD	107.1	WCBC-FM-WV
				93.5	WZBH-DE		

Buffalo Bills 2013 John Murphy, Mark Kelso

<http://www.buffalobills.com/media-center/radio-network-listing.html> (8/28/2013)

550	<u>WGR-NY</u>	1330	WSPQ-NY	1520	WWKB-NY c	96.9	WOUR-NY
590	CJCL-ON		WFNN-PA			98.3	WVIN-FM-NY
950	WROC-NY	1410	WELM-NY	93.5	WQRW-NY	99.5	WTKW-NY
1230	WMML-NY	1420	WACK-NY	95.7	WPIG-NY	100.1	WBRR-PA
1240	WJTN-NY	1470	WNYY-NY	96.5	WBKX-NY	105.5	WTKV-NY
		1490	WCSS-NY		WCMF-FM-NY		

Carolina Panthers 2013 Mick Mixon, Eugene Robinson, Jim Szoke, Sharon Thorsland, Greg

Brannon <http://www.panthers.com/news/radio.html> (9/1/2013)

570	WWNC-NC	1230	WNNC-NC	1460	WDOG-SC	101.1	WROQ-SC
590	WCAB-NC	1240	WJNC-NC			102.3	WECR-FM-NC
620	WDNC-NC	1250	WKDX-NC	92.1	WWNU-SC		WPTM-NC
810	WPIN-VA	1260	WKXR-NC	92.3	WKRR-NC	102.7	WPUB-FM-SC
900	WCBX-VA	1280	WSAT-NC	94.1	W231BC-VA	103.3	WKVS-NC
920	WYMB-SC	1340	WYNF-GA	94.3	WSCC-FM-SC	103.7	WTIB-NC
960	WRNS-NC	1390	WOHS-NC	99.3	WZAX-NC		WBNE-NC
1010	WSPC-NC	1400	WSIC-NC		<u>WBT-FM-SC</u>	107.1	WTKF-NC
1050	WLON-NC	1410	WPCC-SC	99.9	WCMC-FM-NC		WRHM-SC
	WBRG-VA q	1430	WKEX-VA	100.1	WWFN-FM-SC	107.3	WVSZ-SC
1110	<u>WBT-NC</u>	1450	WIZS-NC	100.3	WSEA-SC	107.7	WUKS-NC
1160	WODY-VA		WHKP-NC	100.9	WIFM-FM-NC	107.9	WBQK-VA
1200	WXIT-NC		WTOD-SC		W265CA-VA		

Chicago Bears 2013 (EE) Jeff Joniak, Tom Thayer, Zach Zaidman

<http://www.chicagobears.com/multimedia/chicago-bears-network-audio.html> (8/28/2013)

780	<u>WBBM-IL</u>	1360	WLBK-IL	92.7	WLSR-IL	101.3	WVIL-IL
1050	WDZ-IL	1450	WFMB-IL	93.7	WJBC-FM-IL	101.7	WIVR-IN
1060	WRHL-IL		WASK-IN	95.1	WFAV-IL	103.9	WRBR-FM-IN
1150	KCPS-IA	1490	WDBQ-IA	95.5	WGLO-IL	104.9	WXRX-IL
1230	WJBC-IL			96.7	WFML-IN	105.3	<u>WCFS-FM-IL</u>
1280	WBIG-IL	92.5	WCFF-IL	97.7	WLQI-IN	106.3	WGCY-IL

Cincinnati Bengals 2013 Dan Hoard, Dave Lapham

<http://www.bengals.com/multimedia/on-the-air.html> (8/12/2013)

600	WKYH-KY	1300	WMVO-OH		WMRN-OH	96.7	WCSM-FM-OH
700	<u>WLW-OH</u>	1320	WLOH-OH	1510	WLGN-OH		WBVI-OH
790	WKRD-KY	1340	WCMI-KY	1530	<u>WCKY-OH</u>	102.3	WCYN-FM-KY
930	WRVC-WV	1360	WMOV-WV	1590	WSRW-OH	102.7	<u>WEBN-OH</u>
970	WATH-OH	1390	WMPO-OH			103.9	WRBI-IN
990	WTIG-OH	1450	WWXL-KY	92.1	WBVX-KY	104.7	WTUE-OH
1010	WIOI-OH	1480	WTLO-KY	92.7	W224BR-OH	105.5	WCHO-FM-OH
1150	WIMA-OH	1490	WBEX-OH	94.1	W231BS-WV	105.7	WBWR-OH
1240	WHIZ-OH		WMOA-OH			107.9	WAMW-FM-IN

Cleveland Browns 2013 Jim Donovan, Doug Dieken, Jamir Howerton

<http://www.clevelandbrowns.com/media-center/on-the-air.html> (8/12/2013)

850	<u>WKNR-OH</u>	1480	WHBC-OH	93.1	WWSR-OH	100.9	WMJK-OH
970	WFUN-OH	1540	WBTC-OH	94.1	WHBC-FM-OH		WJAW-FM-OH
1240	WBBW-OH	1590	WAKR-OH	94.3	WKKI-OH	102.9	WYFM-PA
1330	WFIN-OH	1600	WKKX-WV B	95.3	WKTN-OH	104.5	WQKT-OH
1430	WFOB-OH			95.5	WZOH-FM-OH	106.1	WVNO-FM-OH
1440	WRGM-OH	92.3	<u>WKRK-FM-OH</u>	97.5	WONE-FM-OH	107.7	WPFX-FM-OH
1450	WJER-OH	92.7	WQEL-OH	98.5	<u>WNCX-OH</u>		

Dallas Cowboys 2013 (EE) Brad Sham, Babe Laufenburg, Kristi Scales  
<http://www.dallascowboys.com/multimedia/radio-broadcast-information.html> (9/4/2013)

This list is undated, but it differs from last year. DO NOT REPRODUCE

Dallas Cowboys 2013 (EE) Danny White, Kevin Burkhardt  
Expanded Terrestrial Radio Coverage on Compass Media Networks.  
<http://www.dallascowboys.com/multimedia/radio-broadcast-information.html> (9/4/2013)

This list is undated, and I have no idea if the list is current. DO NOT REPRODUCE

Dallas Cowboys 2013 (SS) -Victor Villalba, Andres Arce, Luiz Perez  
<http://www.dallascowboys.com/multimedia/radio-broadcast-information.html> (9/4/2013)

Cadena de Plata Radio This list appears to have a 2009 date. DO NOT REPRODUCE

Denver Broncos 2013 Dave Logan, Ed McCaffrey, Andy Lindahl  
<http://www.broncosradionetwork.com/pages/network.html> (9/2/2013)

The list online is undated; I am not sure it is for the current season.

550	KRAI-CO	1270	KIML-WY		KBBS-WY	100.1	KMMR-MT
600	KCOL-CO	1280	KZFS-WA		KVOW-WY	100.5	KRSJ-CO
730	KINF-ID	1290	KOWB-WY	1470	KKTY-WY	101.7	KDNO-WY
850	<u>KOA-CO</u>	1330	KOVE-WY	1490	KPKE-CO	102.3	KSPK-FM-CO
960	KNEB-NE	1340	KVRH-CO		KNAM-CO	102.7	KINX-MT
990	KSVP-NM		KCQL-NM		KGOS-WY	103.1	KYDT-WY
1010	KSIR-CO		KPOK-ND			104.1	KBVC-CO
1030	KTWO-WY		KYCN-WY	92.1	KFRZ-WY	104.5	KSTY-CO
1050	KMTA-MT		KWOR-WY	92.5	KCRT-FM-CO	105.1	KYSX-MT
1150	KDEF-NM g	1380	KOTA-SD	93.5	KALQ-FM-CO	105.7	KVAY-CO
1180	KOFI-MT	1400	KWUF-CO	96.1	KSTR-FM-CO	106.1	KNFO-CO
1230	KHDN-MT		KBCK-MT	96.5	KDZN-MT	107.3	KAOX-WY
1240	KFBC-WY		KCOW-NE	97.9	KTAG-WY	107.7	KBPY-NE
	KEVA-WY	1410	KOOQ-NE	98.9	KTYV-CO	107.9	KDZA-FM-CO
	KASL-WY		KWYO-WY	99.1	KMTS-CO		
1260	KPOW-WY	1450	KBFS-SD		KINF-FM-ID		

Detroit Lions 2013 -Dan Miller, Jim Brandstatter, Tony Ortiz  
<http://www.detroitlions.com/media-center/lions-radio-network.html> The 2012 list is still online.

DO NOT REPRRODUCE.

Green Bay Packers 2013 Wayne Larrivee, Larry McCarren  
<http://www.packers.com/media-center/radio-shows/packers-radio-network/station-listing.html>

(08/12/2013) - I transcribed the station list from a graphical image.

550	WSAU-WI	1360	WTAQ-WI	96.1	WJMC-FM-WI	101.1	WIXX-WI
580	WKTY-WI	1400	WBIZ-WI	97.1	WGLQ-MI	101.5	WJNR-FM-MI
620	<u>WTMJ-WI</u>	1450	KFIZ-WI		WCOW-FM-WI		WIBA-FM-WI
710	WDSM-WI	1550	WEVR-WI	97.5	WTAQ-FM-WI	102.3	WAUH-WI
940	WFAW-WI			97.7	WGLR-FM-WI		WHTL-FM-WI
1140	KSOO-SD	92.3	WJMQ-WI	98.3	WRUP-MI	102.9	WBDL-WI
1150	WHBY-WI		WRLS-FM-WI		WCQM-WI	105.3	WRLO-FM-WI
1220	KLBB-MN	92.7	WDUX-FM-WI	99.3	WKEB-WI	105.7	WCUP-MI
1230	WFXN-IL	93.3	WBSZ-WI	99.7	WIMI-MI		WAPL-WI
	WCLO-WI	93.7	WCYE-WI	99.9	WJVL-WI		WXCX-WI
1240	WOMT-WI	94.3	WQPC-WI		WSAU-FM-WI	106.3	WEVR-FM-WI
1310	WIBA-WI	95.1	WLST-WI	100.7	WBIZ-FM-WI	107.1	WFON-WI
1330	WHBL-WI	95.3	WXRO-WI	100.9	WRCO-FM-WI		

Houston Texans 2013 Marc Vandermeer, Andre Ware, Rich Lord  
<http://www.houstontexans.com/gameday/broadcasting/broadcast-network.html> (8/12/2013)

DO NOT REPRODUCE

Indianapolis Colts 2013 Bob Lamey, Will Wolford, Kevin Lee  
<http://www.colts.com/media-center/radio-tv-broadcast/affiliates.html> (9/4/2013)

The list online is dated 2012, but it is the 2013 list.

Jacksonville Jaguars 2013 (EE) Brian Sexton, Jeff Langeman, Tony Boselli, Brent Martineau

Jacksonville Jaguars 2013 (SS)

<http://www.jaguars.com/media-gallery/media-affiliates/index.html> (8/12/2013)

690	<u>WOKV-FL</u>	1150	WJEM-GA g	93.3	WVFT-FL	105.5	WIFO-FM-GA g
850	WRUF-FL	1240	WAOC-FL	94.3	WNFB-FL	106.3	WKBX-GA
900	WMOP-FL 1	1400	WSEG-GA	97.7	WYYX-FL	107.7	WHFX-GA
1060	WIXC-FL	1550	WNZF-FL	105.3	<u>WJSI-FL</u> S		
1080	WHOO-FL	1590	WPSL-FL				

Kansas City Chiefs 2013 Mitch Holthus, Len Dawson, Kendall Gammon

[http://www.kcchiefsradio.com/page.php?page\\_id=193](http://www.kcchiefsradio.com/page.php?page_id=193) (8/12/2013)

590	KXSP-NE m	1400	KGMV-MO	93.5	KLKC-FM-KS		KDVV-KS
690	KGGF-KS		KREF-OK i	94.5	KRXL-MO	100.9	KCLY-KS
790	KXXX-KS	1420	KJCK-KS	95.1	KAMS-AR	101.1	<u>KCFX-MO</u>
860	KKOW-KS	1450	KWBW-KS	95.5	KAAN-FM-MO	101.7	KVOE-FM-KS
870	KAAN-MO		KYNT-SD	96.7	KBBE-KS	102.9	KMMO-FM-MO
1130	KLEY-KS	1540	KNGL-KS	96.9	KFIX-KS	103.9	KOMB-KS
1150	KRMS-MO		KLKC-KS	97.3	KKJQ-KS	104.3	KVGB-FM-KS
1220	KJAN-IA	1550	KKLE-KS		KXUS-MO	104.9	KXEA-MO
1230	KTNC-NE	1600	KMDO-KS		KRGY-NE	105.3	KEDB-IA
1240	KFOR-NE	1700	KBGG-IA		KBLR-FM-NE	105.5	KFMT-FM-NE
1300	KMMO-MO			99.9	KSKG-KS	105.9	KULH-MO
1350	KMAN-KS	92.3	KSDL-MO	100.1	KBBM-MO	107.3	KTHR-KS
1370	KIOL-KS	92.7	KSJQ-MO	100.3	KRDQ-KS		

Miami Dolphins 2013 (EE) -Jimmy Cefalo, Bob Griese, Joe Rose, Keith Sims, Kim Bokamper

<http://prod.www.dolphins.clubs.nfl.com/finatics/radio-network.html> (8/31/2013)

580	WDBO-FL	940	<u>WINZ-FL</u>			101.7	WCZR-FL
900	WSWN-FL	1290	WJNO-FL	94.3	WZZR-FL	105.9	WBGGM-FM-FL
	WMOP-FL 1	1600	WKWF-FL	96.1	WRXK-FM-FL		

Miami Dolphins 2013 (SS) -Raul Striker, Jr., Stefano Fusaro

<http://prod.www.dolphins.clubs.nfl.com/finatics/radio-network.html> (09/31/2013)

1140	<u>WOBA-FL</u>			92.1	WRLX-FL		
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Minnesota Vikings 2013 Paul Allen, Pete Bercich

<http://www.vikings.com/media-vault/radio.html> (8/12/2013)

570	WNAX-SD	1250	KBRF-MN	1600	KDAK-ND	100.3	<u>KFXN-FM-MN</u>
620	KMNS-IA	1260	KROX-MN			100.7	KIKV-FM-MN
650	WMNT-MN	1270	KFAN-MN	92.5	KKWQ-MN		KMLO-SD
660	KEYZ-ND	1300	KGLO-IA	93.3	KBLB-MN	100.9	WCMP-FM-MN
710	KXMR-ND	1340	KDLM-MN	93.5	KSCR-FM-MN	101.1	KBHP-MN
790	KFGO-ND		KRBT-MN	94.1	KXLP-MN		WHSM-FM-WI
880	WMEQ-WI		KWLM-MN	94.3	KKIN-FM-MN	101.7	KRCH-MN
930	KSDN-SD	1380	KAGE-MN	94.5	WELY-FM-MN	101.9	KRWK-ND
950	KWAT-SD	1390	KRRZ-ND		KPLO-FM-SD	102.9	KBWS-FM-SD
1070	KVKK-MN	1400	KQDJ-ND	94.7	KSCK-MN	104.1	KSDM-MN
1130	<u>KTCN-MN</u>	1440	KKXL-ND	94.9	KQDS-FM-MN		KBOT-MN
1170	KRUE-MN	1450	KBUN-MN	95.3	WXXZ-MN	104.9	WLMX-FM-WI
1220	KDDR-ND		KBMW-MN	95.7	KKOK-FM-MN	105.1	KARL-MN
1230	KYSM-MN		WELY-MN	96.1	KQPR-MN	105.7	KRAQ-MN
	KTRF-MN	1460	KXNO-IA	96.9	KMFY-MN	105.9	KHRS-MN
	KWSN-SD		KLTC-ND	98.1	KBEW-FM-MN	106.9	KARP-FM-MN
1240	KICD-IA	1490	KQDS-MN	98.3	KQYB-MN	107.3	KNUJ-FM-MN
	WJON-MN		KOVC-ND	99.1	WKFX-WI		
	KDLR-ND	1510	KMSD-SD	99.5	KRKI-SD		

New England Patriots 2013 -Gil Santos, Scott Zolak

<http://www.patriots.com/media-center/radio-stations.html> (8/12/2013)

DO NOT REPRODUCE.

New Orleans Saints 2013 (EE) -Jim Henderson, Hokie Gajan, Kristian Garic

New Orleans Saints 2013 (SS) -Marco Garcia, Emilio Paralta

<http://www.neworleanssaints.com/news-and-events/saints-radio.html> The 2010 list is still online.

New York Giants 2013 Chris Carino, Roman Oben, Paul Dottino

<http://www.giants.com/broadcast-info.html> (8/29/2013) DO NOT REPRODUCE.

New York Jets 2013 (EE) -Bob Wischusen, Marty Lyons, Larry Hardesty

New York Jets 2013 (SS)

<http://www.newyorkjets.com/news/radio-info.html> (8/26/2013)

This list is the same as last year except for the SS flagship station.

710	KSPN-CA	1250	WMTR-NJ			105.7	WCHR-FM-NJ
1040	WNJE-NJ	1310	WADB-NJ	98.7	<u>WEPN-FM-NY</u>	107.1	WLIR-FM-NY
1050	<u>WEPN-NY</u> S		WTLB-NY h	101.5	WXHC-NY		
1160	WPIE-NY t	1410	WPOP-CT	103.9	WRCN-FM-NY		
1200	WTLA-NY h	1440	WSGO-NY z	104.5	WTMM-FM-NY		

Oakland Raiders 2013 Greg Papa, Tom Flores

<http://www.raiders.com/media-vault/radio-network.html> (8/12/2013) DO NOT REPRODUCE.

Philadelphia Eagles 2013 (EE) -Merrill Reese, Mike Quick, Howard Eskin

<http://www.philadelphiaeagles.com/multimedia/radio-information.html> (8/12/2013)

830	WEEU-PA	1490	WBCB-PA	96.1	WCTO-PA	97.7	WAFL-DE
1150	WDEL-DE				WSOX-PA	106.9	WEZX-PA
1360	WPPA-PA	93.3	WBZD-FM-PA	97.3	WENJ-NJ	107.3	WEGH-PA
1450	WPGG-NJ	94.1	<u>WIP-FM-PA</u>				

Philadelphia Eagles 2013 (SS) Rickie Ricardo, Felix DeJesus, Will Kulik

<http://www.philadelphiaeagles.com/multimedia/radio-information.html> (8/12/2013)

1100	WGPA-PA d	1680	<u>WTTM-NJ</u>				
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Pittsburgh Steelers 2013 Bill Hillgrove, Tunch Ilkin, Craig Wolfey

<http://www.steelers.com/news/radio-info.html> (8/12/2013)

The list is the same as last year; is the list for the current season?

560	WFRB-MD		WBVP-PA	1470	WSAN-PA	95.3	W237DE-PA
590	WMBS-PA	1240	WIOV-PA	1480	WCNS-PA	99.1	WRKW-PA
630	WJAW-WV	1320	WGET-PA	1490	WESB-PA	99.3	WZXR-PA
680	WISR-PA	1390	WNIO-OH	1590	WIJK-MD	102.1	WOWQ-PA
800	WCHA-PA	1400	WJET-PA			102.5	<u>WDVE-PA</u>
850	WKGE-PA		WHGB-PA	92.1	WOHF-OH	103.9	WRSC-FM-PA
920	WMMN-WV	1410	WHAG-MD	92.3	WVSL-FL-PA	104.1	WPXZ-FM-PA
970	<u>WBGG-PA</u>	1430	WVAM-PA		WXCR-WV	104.3	WKNB-PA
990	WLLI-PA	1440	WGLD-PA	92.7	WCCR-PA	104.9	WRKY-FM-PA
1160	WCCS-PA	1450	WTBO-MD	94.3	WUZZ-PA	107.5	WBVE-PA
1170	WWVA-WV		WJPA-PA		WRLF-WV	107.7	WUUZ-PA
1230	WCWA-OH	1460	WMBA-PA	95.1	WWGY-PA		

St. Louis Rams 2013 Steve Savard, D'Marco Farr, Tony Softli

<http://www.stlouisrams.com/media-center/radio-shows.html> (8/12/2013)

930	WTAD-IL	1400	KREF-OK i	93.5	KMYK-MO	100.9	WZUS-IL
940	WMIX-IL	1420	WINI-IL	95.3	K237FI-AR	101.1	<u>WXOS-IL</u>
970	KNEA-AR o	1520	KRHW-MO	97.9	WXEF-IL	103.5	WXLT-IL
1170	KJXX-MO	1560	KTUI-MO	99.3	KUNQ-MO	104.3	KDBB-MO
1230	WHCO-IL	1580	KTGR-MO	100.1	WJBD-FM-IL	106.3	KRZK-MO
1250	KBTC-MO			100.5	WSJD-IN o	107.1	WEAI-IL
1280	KYRO-MO	92.7	KASR-AR k		KTGR-FM-MO	107.3	KLPW-FM-MO

San Diego Chargers 2013 (EE) Josh Lewin, Hank Bauer, Mike Costa

<http://www.chargers.com/media-vault/broadcasting/radio.html> (9/3/2013)

570	KLAC-CA	1100	KWWN-NV	1510	KSPA-CA	101.3	KATY-FM-CA
610	KAVL-CA	1250	KNWH-CA			105.3	<u>KIOZ-CA</u>
910	KRAK-CA	1360	KLSD-CA y	94.3	K232CX-CA	107.5	KXO-FM-CA

San Diego Chargers 2013 (SS) Jorge Villanueva, Dante Lazcano Martinez  
<http://www.chargers.com/media-vault/broadcasting/radio.html> (9/3/2013)

1330	KWKW-CA	1590	XEHC-Mex	89.9	XHSOL-Mex	107.3	<u>XHFG-Mex</u>
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San Francisco 49ers 2013 (EE) Ted Robinson, Eric Davis, Rod Brooks

<http://www.49ers.com/media-gallery/on-the-radio.html> (9/3/2013) DO NOT REPRODUCE.

San Francisco 49ers 2013 (SS) Melvin Moran, Matias Godinez, Marcos Gutierrez

<http://www.49ers.com/media-gallery/on-the-radio.html> (9/3/2013) DO NOT REPRODUCE.

Seattle Seahawks 2013 Steve Raible, Warren Moon

<http://www.seahawks.com/gameday/broadcasting/radio-network.html> (8/29/2013)

560	KVOK-AK		KVNI-ID	1420	KUJ-WA		
	KPQ-WA	1170	KPUG-WA	1430	KCLK-ID	92.1	KCRK-FM-WA
610	KONA-WA	1230	KCUP-OR		KBRC-WA	92.7	KNCW-WA
710	<u>KIRO-WA</u>	1240	KOFE-ID	1440	KODL-OR	94.5	KHTQ-WA
800	KINY-AK		KSAM-MT	1450	KLAM-AK	96.5	KWLZ-FM-OR
840	KMAX-WA		KTIX-OR		KGRZ-MT	97.3	<u>KIRO-FM-WA</u>
960	KLAD-OR		KXLE-WA		KONP-WA	98.5	KEYG-FM-WA
970	KUFO-OR	1280	KIT-WA	1470	KBSN-WA	98.7	KUBQ-OR
1030	KMAS-WA	1340	KYLT-MT	1490	KFKB-WA	99.3	KIT-FM-WA
1040	CKST-BC	1380	KSRV-OR		KWOK-WA	102.3	KCRX-FM-OR
1080	KUDO-AK s	1400	KEDO-WA	1580	KGAL-OR	104.3	KMNT-WA

Tampa Bay Buccaneers 2013 Gary Deckerhoff, Dave Moore, T. J. Rives

I could find no official list online.

Tennessee Titans 2013 -Mike Keith, Frank Wycheck, Cldy Allison

[http://www.titansradio.com/page.php?page\\_id=222](http://www.titansradio.com/page.php?page_id=222) (KY) (08/12/2013)

[http://www.titansradio.com/page.php?page\\_id=202](http://www.titansradio.com/page.php?page_id=202) (AL) (08/12/2013)

[http://www.titansradio.com/page.php?page\\_id=232](http://www.titansradio.com/page.php?page_id=232) (AR/MS) (08/12/2013)

[http://www.titansradio.com/page.php?page\\_id=212](http://www.titansradio.com/page.php?page_id=212) (TN) (08/12/2013)

These URLs have changed from last year, but they have a December 10, 2012 timestamp.

570	WKYX-KY	1260	WDKN-TN	93.7	WBXE-TN	103.7	WPTQ-KY
640	WXSM-TN	1280	WMCP-TN	94.5	WJOX-FM-AL	104.1	WCLE-FM-TN
730	WUMP-AL	1320	WNGO-KY	95.7	WCCK-KY		WUCZ-TN
770	WVNN-AL		WMSR-TN	95.9	WRJB-TN	104.5	<u>WGFX-TN</u>
790	WMC-TN	1340	WCDT-TN	96.7	WNKX-FM-TN	104.7	WMUF-TN
860	WSON-KY	1370	WDXE-TN	97.1	WXCM-KY	104.9	WAVJ-KY
950	WAKM-TN	1400	WJZM-TN	97.7	WWKY-KY	105.3	WOWC-TN
1000	WRQR-TN		WZNG-TN	98.3	WKSR-FM-TN	105.5	KWAK-FM-AR
1050	WWIC-AL	1450	WTCO-KY	98.9	WANT-TN		WYTM-FM-TN
1060	WQMV-TN		WWKU-KY	99.1	WNML-FM-TN	105.7	WQAK-TN
1150	WGOW-TN	1490	WCOR-TN	100.1	WASL-TN	106.5	WKDZ-FM-KY
	WCRK-TN	1560	WPAD-KY	101.3	WCMT-FM-TN	106.7	WDXE-FM-TN
1220	WFWL-TN			101.5	WTHX-KY	107.3	WQLT-FM-AL
	WAXO-TN	92.7	WAFN-FM-AL	102.3	WZDQ-TN		
1240	WPBQ-MS	92.9	WMFS-FM-TN		WGOW-TN		

Washington Redskins 2013 Larry Michael, Sam Huff, Sonny Jurgensen, Rick "Doc" Walker

<http://www.redskins.com/media-gallery/radio-network.html>

The list online is undated; I am not sure if it for the current season.

550	WSVA-VA	1270	WCBC-MD		WXTG-VA	99.1	WXGM-FM-VA
740	WRNR-WV	1360	WHBG-VA	1550	WMRE-WV	99.3	WFQX-VA
750	WAUG-NC	1400	WKAV-VA			101.1	WAMS-FM-MD
950	WXGI-VA	1410	WRJD-NC	92.7	WWXT-MD	101.7	WWBU-VA
960	WFIR-VA	1450	WGNC-NC	93.1	WSVO-VA	102.1	WXTG-FM-VA
980	<u>WTEM-DC</u>		WNOS-NC	94.3	WWXX-VA	105.5	WRAR-FM-VA
1230	WCBT-NC	1490	WSTP-NC	95.9	WGRQ-VA	105.9	W290CB-NC
1260	WCHV-VA		WSVM-NC	98.3	WSMD-FM-MD	106.9	WWEG-MD

Flagship stations are underlined. \* Announcer names from a previous season

c Beginning with the season opener, WGR will simulcast its broadcast live without delay on WWKB 1520 AM for fans in the stadium. WWKB will switch over to game coverage 15 minutes prior to kickoff.

d Day games only

f The Cowboys' wseb site mentions nothing about 1080 KRLD-TX, so I do not know if they are broadcasting the games.

g Atlanta Falcons & Jacksonville Jaguars

h New York Giants & New York Jets

i Kansas City Chiefs & Saint Louis Rams

j Oakland Raiders & San Francisco 49ers

k Oakland Raiders & Saint Louis Rams & Dallas Cowboys (Extra Terrestrial)

l Jacksonville Jaguars & Miami Dolphins

m Dallas Cowboys (Extra Terrestrial) & Kansas City Chiefs

n RESERVED [currently unused]

o Dallas Cowboys (Extra Terrestrial) & Saint Louis Rams

p Preseason games only

q Dallas Cowboys (Extra Terrestrial) & Carolina Panthers

r Dallas Cowboys (Extra Terrestrial) & Indianapolis Colts

s Dallas Cowboys (Extra Terrestrial) & Seattle Seahawks

t Dallas Cowboys (Extra Terrestrial) & New York Jets

u Dallas Cowboys (Extra Terrestrial) & New York Giants

v Dallas Cowboys (Extra Terrestrial) & Oakland Raiders

w Dallas Cowboys (Extra Terrestrial) & Houston Texans

x Dallas Cowboys (EE) & Dalas Cowboys (SS) & Houston Texans

y Dallas Cowboys (Extra Terrestrial) & San Diego Chargers

z Dallas Cowboys (Extra Terrestrial) New York Giants & New York Jets

A Dallas Cowboys (SS) & Houston Texans

B Dallas Cowboys (Extra Terrestrial) & Cleveland Browns

C Dallas Cowboys (EE) & Houston Texans

## MEMBERSHIP REPORT

“Enclosed is a check for another year of membership in NRC” – David Wurl.

**New Members** – Here’s a warm welcome to our newest NRC members: Bruce Ambuter, Monument Beach, MA; Robert Brown, Lansdale, PA; Francesco Clemente, Italy; Rein Faber, Netherlands; Douglas Foster, Dover, NH; Anthony Gargano, Sewell, NJ; David Green, Lexington, KY; Jerry Kulig, Edmonton, AB; David Newman, Kingston, MA; and Michael Yule, Vancouver, BC.

**Rejoining Members** – And a warm welcome (back) to Michael Bates, Invergrove Heights, MN; and Brian Sherwood, Sharon, WI.

**Renewing Members** – Thanks to the ongoing support of Roger Anderson; Craig Blaine; Donald A. Boyer; Phil Bytheway; Mike Clancy; Dan Dankert; Michael J. De Roo; Gary DeBock; Kenneth L. Diehl; Mark Durenberger; Albert Earnhardt; Russell J Edmunds WB2BJH; Matthew Elliff; Jerry Ervine; Barry S. Finkel; Robert L Forrester Jr; Robert Galerstein WB2VGD; Gerard Gonsalves; Robert Gulley; William R Hale; Bruce Hammond; Robert Harrison; Robert Hill; Eugene Hinton; Thomas Holmes; Neil T. Kazaross; Fred L Kincaid; Chris Knight; David N Lewis; Kenneth Lyon; Marc Marino; Brian Miller; James M. Moertel; Tom Mulvaney KR4BD; James Niven; John Nowak; James Pope; Robert C. Pote; Albert V. Prete; John Rieger; Anthony Rogers; Andy Ross; Sheldon Rubin; Odd-Jorgen Sagdahl; Wolfgang Schneiter; Lexington Smith; Randy Stewart KA0RNF; Mike Strand W6HAJ; David Sundius; Mike Terry; James J. Wallace; James T. Weber; Frank Welch; David E Whatmough; Thomas H. White; Duane Whittingham; David M. Wurl; Robert D. Young, Jr.; and Philip Zmenkowski.



### Follow @NRCDXNews on Twitter!

Twitter can be used to disseminate hot MW DX tips to the DX community

To read tips: go to [www.twitter.com](http://www.twitter.com) and search for #mwdx

To send tips, write a tweet (140 characters max) and include the tag #mwdx



# *DX Tool Box*

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## **Improving your DX skills – tips from new and veteran members**

Greetings once again from the Heart of the Continent and welcome to the DX Tool Box Column number 52.

### **This Month's Radio Saying:**

Radio ... Because Some Pictures Need a Thousand Words

### **The State of AM Radio in Canada**

Much has been made about the death of AM radio of late. Although I am not in a position to state with certainty that AM radio is on its death bed, I can however shed some light on what is happening up here in the Great White North. I will let the facts speak for themselves by giving you some straight forward figures.

Each year I help out on updating the NRC AM Log. I am sent a listing of AM radio stations (not counting TIS/HAR stations) operating in Canada to see what changes and or updates need to be made. Here is a listing of stations for the last few years:

In 2011 there were a total of 329 active stations or stations with Construction Permits to go on air.

In 2012 there were a total of 317 active stations or stations with Construction Permits to go on air.

In 2013 there were a total of 300 active stations or stations with Construction Permits to go on air.

That all said it looks like that since 2011 there has been a drop of about 10% in the number of active stations or stations with Construction Permits to go on air.

Also of note of the 300 stations listed in 2013 there are 25 that have either applications for or construction permits to move to FM. If these all work their way through the system the AM band in Canada could have 275 or so AM radio stations left by 2014. That would be a loss of 54 stations from 2011 to 2014 which would work out to about a 16.5% drop in AM stations.

AM radio may not be dead in Canada but it looks like it is disappearing at a rapid rate. The CBC is leading this rush to FM by moving many of its repeaters to FM from AM so the figures may look worse than what they are. In remote areas going to FM may be very economical for the cash strapped CBC. Also there is no competition for frequencies in many of these locations so the CBC can almost choose any frequency they want.

As some older AM transmitters need more maintenance or just become too expensive to operate, I think the move to FM (at least where frequencies are still available) may actually speed up. One other consideration about moving to FM may involve real estate. If you need a very large piece of land to put up several towers and you can go to FM by putting your antenna on another tower or on a single tower on a small piece of land it could be tempting to sell that large piece of land and go to FM. In some major centers the money obtained from selling your AM antenna site could pay for the move to FM and still leave you money in the bank.

Only time will tell where all this may lead, but there is a pattern forming to migrate from AM to FM and more stations seem to be going down that path in Canada. There are still some new stations coming onto the AM band but the exodus to FM is far higher. You will just have to keep buying the NRC AM Log to see what happens and read your NRC bulletins regularly to keep up.

**SDR Loggings and Tips:** None this time around but your loggings are always welcome here.

### **My Best DX Catch**

It is nice to see another Best DX Catch this month. Keep sending them in they are all welcome here and you tell us why it is your favourite catch.

I have heard Medium Wave stations from 105 countries from my home location here on Cape Cod, MA. This includes rarely heard countries like the Faroe Islands (531 kHz) and Paraguay (645 kHz). However, I consider my favorite catch to be the US Air Force Station at Ramey AFB in Aguadilla, Puerto Rico on 780 kHz. They only ran 50 watts and therefore, at 1,617 miles, this comes to 32 miles per watt. This station was heard several times between January and March of 1971 during WBBM's then regular Monday Morning Silent Period. The station played current Top 40 hits with a live DJ for the troops at the base. The base was closed around 1973 as the war in Vietnam was winding down and I'm sure the station was shut down also. Of course, WBBM's Silent Periods became a thing of the past also. 73, Marc DeLorenzo, South Dennis, MA. Cape Cod, Mass.

<http://forums.wtfda.org/showthread.php?228-DeLorenzo-s-Classic-DX>

Hi ! I have read your Perry Crabill comments on his catch of LR1, Buenos Aires, in 1936 and would like to add this: I too was a teenage DX'er in 1936 and also logged LR1-1070, but I think it was in 1938 when I heard them. WTAM was on at the time but LR1 was very clear below It was parallel to their SW relay. I was a regular reader of RADEX so probably got the LR1 info from others hearing them at that time. Unfortunately I never wrote them, never sought Veries until I joined NRC in 1958. Many years later, in 1964, I logged LR3-950, Radio Belgrano, Buenos Aires, on a Monday morning when the only other station on at the time was in Denver. LR3 was strong atop 950 over Denver. Local WPEN of course was off. I received a very nice Verie letter - in English - and instead of an Argentina stamp they just attached an IRC to their envelope. I'm not sure what was my best catch. I'll think about it. Incidentally, I do remember the Bureau of Standards tests and stations often standing by for them. The Monday morning maintenance sign-offs were also lots of help. Ben Dangerfield

**Bits and Bites from the NRC listserv:**

From: Chernos Saul [sauldx@sympatico.ca](mailto:sauldx@sympatico.ca)

Subject: Wayne Plunkett

Sad news - Wayne Plunkett passed away a couple of weeks ago. He was 72 and had cancer for at least the last couple of years. I know quite a few of you will know Wayne, whose DX activities go well back into the 50s. Though he veered more into consulting work in recent years, he was always interested in knowing what was going on in the DX world, and every so often he'd report catches to me. He had a sharp eye for detail and would notice immediately even the tiniest error in a station directory. But he was an absolute fan of all these efforts I can picture him trying right now to convince the late Bruce Elving to publish yet another edition of the FM Atlas! A notice is online at: [www.obitsforlife.com/obituary/710743/Plunkett-Wayne.php](http://www.obitsforlife.com/obituary/710743/Plunkett-Wayne.php) and at: [www.wardfuneralhome.com/book-of-memories/1590341/Plunkett-Wayne/service-details.php](http://www.wardfuneralhome.com/book-of-memories/1590341/Plunkett-Wayne/service-details.php)

Condolences can be sent to his family c/o Linda and Larry Folliot at [lkfbuzz@hotmail.com](mailto:lkfbuzz@hotmail.com). Wayne has deeply involved with Canadian radio history and left behind an estimated 15-16 boxes of magazines, books and handwritten notes about radio, mainly Canadian radio. Without any specific instructions regarding what should be done with it. I'm helping family members identify what's there, and suitable places to direct it. Preference will be given to family wishes, and to Canadian repositories, of course, but if any of you have any ideas of places that are truly interested in and would cherish radio-related and DX-related material, please let me know. The Folliotts will make all final decisions, of course, and if there's anything valuable in there they should benefit from the proceeds. So I cannot guarantee what will go where in the end. But I am open to any guidance and suggestions. Saul Chernos

From: Mark Connelly [markwa1ion@aol.com](mailto:markwa1ion@aol.com)

Subject: Kaz antenna review

Nice write-up on the "Kaz" delta terminated loop antenna, from a UK perspective [http://www.infotechcomms.co.uk/downloads/Kaz\\_MW\\_Antenna.pdf](http://www.infotechcomms.co.uk/downloads/Kaz_MW_Antenna.pdf); also see: <http://www.g0kya.blogspot.co.uk/2013/06/the-kaz-directional-mw-antenna.html>. Mark Connelly, WA1ION South Yarmouth, MA, USA

From: Lee Freshwater

Subject: AM LOGBOOK TO CLOSE

It is with deep regret that I announce the closing of the AMLOGBOOK. I no longer have the time nor the desire to spend the countless hours of updating and keeping track of AM Radio stations. I have not DX'ed in three years and do not see any DX'ing in my immediate future. Noise levels have gotten to the point where DX'ing for me is a waste of time, not to mention the lack of anything worth listening to on this forgotten radio band. It's been a pleasure to provide station information for radio hobbyists since 1995, and I am glad I was able to provide it as a FREE service to DX'ers. But time marches on. I will leave the AMLOGBOOK site posted for the next several months. I will then be canceling my domain and email. Thank you for all your support over the years. All the best. Lee J Freshwater Ocala, FL

**This Month's DX Tool Box Web Site is:**

The Interval Signal Database located at: <http://en.intervalsignals.org/html/index.html>

This site has a large listing of Interval Signals that many overseas stations use as part of the identification. This link is for the English version of this German site. You can try out an interval signal to see if it matches what you heard to help ID that new one. The site may be of help to BCB DX'ers as some stations do rebroadcast on Shortwave or vice versa.

73 for this time Shawn

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

# July 2013 Oregon Cliff (Rockwork 4) DXpedition

## Enjoying and Exploiting Freakish South Pacific Propagation

by Gary DeBock, Puyallup, WA, USA August 2013

**Introduction:** Once in a very great while a radio hobbyist stumbles upon a new discovery, which in turn leads to even greater discoveries in related science. Graham Maynard's discovery and introduction of the FSL antenna in February of 2011 has proven to be one of these rare events, finally providing transoceanic DXers the tool to unlock the propagation mysteries and advantages of sheer ocean side cliffs.

Because of the extremely tight setup space at these high altitude venues none of the traditional DXpedition antennas could possibly fit – so the sites had been ignored by serious hobbyists. This situation continued until Graham's FSL design was intensely studied, refined, enlarged and reworked by experimenters in the Ultralight Radio community ... and found to provide the unique combination of exceptional sensitivity with exceptional compactness. Finally, a high-gain, low-noise DXing antenna was available that could be set up practically anywhere – including the narrowest of ocean cliff sites. So now that a suitable antenna was finally available to provide excellent sensitivity at these extremely tight venues, what type of wild DXing adventure would be necessary to unlock the propagation secrets?



**"Cliffhanger DXing" – the Hobby's New Extreme Sport:** After 4 major DXpeditions to these narrow ocean cliff sites, the author has become convinced that they really do provide superior –



even freakish – transoceanic propagation in comparison to adjacent sea level beaches. They provide this unique DXing benefit at a pretty high price, however – the need to tolerate one of the most challenging and demanding environments ever used for radio listening. The ocean cliff sites do indeed twist the transoceanic propagation in your favor, but the harsh conditions can easily make you wonder if such an advantage is worth the hassle. You essentially sacrifice most of your comfort – going without AC power, running water, street lighting or weather protection while facing loud traffic noise, curious stares and foul weather. As you might guess, Murphy's Law is

a frequent visitor. The setup space is very narrow, and extremely small-footprint antennas (like the FSL's) are a must. The resulting benefits are also pretty awesome, though – a unique form of enhanced transoceanic propagation, a solid rock cliff to attenuate back-side domestic splatter, an ultra-low RF noise level and (if the weather cooperates) some breathtaking ocean scenery. Any DXer showing up at one of these sites with a selective radio and high-gain FSL antenna is practically guaranteed to receive potent transoceanic DX – assuming that they can tolerate the ever-changing weather. But the greatest benefit of "Cliffhanger DXing" is probably an intangible one... the exciting challenge is almost certain to provide a permanent cure for any hobby boredom!

**Planning the July 2013 DXpedition – Cooperation with a Master Hobbyist:** Noted east coast DXpeditioner Bill Whitacre had conducted a summer trip to Grayland, Washington and Florence, Oregon last year, setting up DKAZ (double KAZ) antennas near sea level (at Grayland) and at the 800 foot level (near Florence) and then recording South Pacific DX signals from both locations on his Perseus-SDR. He then posted relative-strength MP3's from both locations, and invited listeners to judge whether the cliff-top 800 foot altitude had made any real difference in DX signal strength. Prior to this event I had always figured that greater cliff-top altitude meant greater DX signal strength, and I had always dreamed of setting up my FSL antenna at the top of an 800 foot ocean side cliff. But Bill's MP3 results showed that such a concept was erroneous – there was almost no difference in signal strength between the Grayland and Florence MP3 recordings. These results were very surprising to me.

Bill was also kind enough to listen to my own South Pacific MP3's recorded at Oregon's Cape Perpetua (at left, near Florence) at the Highway 101 road side turn off (200 foot level, on the side of

the cliff) with a PL-380 Ultralight radio and 8" FSL antenna earlier that month – and said that he was very surprised himself. The potent signal strength of the South Pacific stations was very unusual, according to Bill. Sharing this information with Bill was extremely helpful in planning a similar ocean cliff-side DXpedition last August. Instead of searching out an 800 foot cliff-top location next to the ocean, I would instead set up on the side of another Oregon cliff with near-identical topography to Cape Perpetua – “Rockwork 4,” having an identical straight-down drop off to the Pacific from the DXing site (located at another Highway 101 turn off), as well as the identical flat cliff above the DXing site. The cliff is located about 10 miles south of Cannon Beach on the side of Neahkanie Mountain, just south of the Tillamook County border with Clatsop County. Rockwork 4 did indeed prove to be another cliff which provided almost freakish South Pacific propagation boosts last August, and I was convinced that it would be the perfect venue to conduct a major one-week DXpedition this July.

**New 12" FSL Antennas:** During winter experimentation I finally had the chance to design and build a new FSL model that was a significant upgrade in sensitivity and performance over the 8" model (as well as in weight and cost :-). The new 12" FSL's used 86 Russian surplus 200mm x 10mm ferrite rods and were wrapped with 14 turns of 660/44 Litz wire (the largest and most sensitive Litz wire commercially available). With its rugged DXpedition mission it was given four layers of pipe insulation to cushion the ferrite rods, as well as a tough 1" PVC frame to absorb the shock from any unplanned “drop tests.” At 22 pounds (10 kg), this new FSL had the size, weight and feel of a DXing monster... and at a \$500 construction cost, this “Financial Sinkhole Loop” also provided a pretty scary example of the relationship between FSL price and performance.



FSL model over to hometown buddy Guy Atkins for Perseus-SDR testing at ocean side cliffs during our summer DU (South Pacific) DXing season.

Both the 12" Standard and Broadband FSL antennas would be fully tested during two separate July DXpeditions on the Oregon coast – my own trip to Rockwork 4, and an 8-man DXpedition to Yachats.

**Newly Designed 7.5" Loopstick Tecsun PL-380:** The latest variation in this classic Ultralight favorite uses 68 turns of 250/46 Litz wire on a 7.5" type 61 ferrite rod from Amidon, supported on the usual orange plastic frame. This replaces the 330/44 Litz wire design from last year, which proved to be too tricky for beginners to solder on the cramped PL-380 circuit board. This newly designed model has no such drawback, and is the subject of a major “Heathkit-like” construction article planned for later this year. It was used for the first time in transoceanic DXing during this major July DXpedition, and was the receiver used for the 39 MP3 recordings of South Pacific DX stations.

**Two Concurrent Oregon Coast DXpeditions:** By a quirk in scheduling, my own Ultralight radio + FSL antenna DXpedition to the Rockwork 4 cliff would be conducted from July 21-27, covering the same dates as a major operation by 8 noted DXpeditioners to Yachats, Oregon (98 miles to the south), from July 22-25. The Yachats group would be led by master hobbyist



In answer to the requests of local Perseus-SDR DXing enthusiasts the winter experimentation also produced a 12" Broadband FSL model (at left), designed to be used for spectrum capture at ocean side cliffs. This model was identical to the 12" Standard FSL except that the 381 pf variable cap had been replaced by the Wellbrook FLG100LN-2 amp, and used the Wellbrook Antenna Interface module between the FLG100LN-2 and the 50 ohm Perseus-SDR antenna input. Since my own hobby focus was still live DXing with Ultralight radios, I transferred this 12" Broadband



Bill Whitacre, and would be using state-of-the-art Perseus-SDR receivers for spectrum capture, a full-size DKAZ (double Kaz) directional loop near sea level, a Flag antenna on the top of nearby Cape Perpetua (805 feet high) and my own 12" Broadband FSL model (carried by hometown buddy Guy Atkins) at Cape Perpetua's Highway 101 turnoff (200 feet high). Although Bill and most of these DXers were good friends, this awesome collection of DXing antennas and state-of-the-art equipment at Yachats made me wonder exactly how my humble \$50 Ultralight radio and 12" FSL antenna was going to perform by comparison :-)

On the other hand, I knew that if freakish ocean cliff DU propagation really kicked in at Rockwork 4 like it had done the previous summer, it could be a "wild card" that would give the humble PL-380 and FSL a chance to be competitive. Most of the AM-DXing community was still in the dark (or skeptical) about the concept that a sheer ocean cliff's shape "funneled" or "collected" transoceanic DX signals to boost them up to unusually strong levels. This was a golden opportunity to demonstrate the truth of the theory, since the humble PL-380 and FSL antenna were **totally outclassed** in every other aspect!

**Murphy's Law Kicks off the DXpedition:** Two major issues occurred at the worst possible time (just prior to the Oregon trip). My usual 19.5" loopstick Sony ICF-2010 SSB spotting receiver had its tuning shaft encoder go on the blink right before packing, forcing me to take a stock ICF-2010 instead. The stock ICF-2010 was barely acceptable as an SSB spotting receiver on the Cliff, with its 6.5" stock loopstick so deaf that it couldn't even provide a weak carrier on DU's that the 12" FSL + PL-380 combo could receive with decent audio. This made it a challenge to track down vibrant DU's for MP3 recording purposes.

A more comical issue was the lack of a Longwave FSL antenna. Right before the DXpedition rubber waterproofing sheets had been placed over the coils on the Longwave and Medium Wave FSL antennas, making both of them look identical when packed in their plastic totes. An extra

Medium Wave FSL had also received this treatment, making all three FSL's tough to distinguish. In the rush of packing for the Oregon trip in our crammed Toyota Corolla (for a one-week family vacation), two Medium Wave FSL's accidentally got packed, but no Longwave FSL. As such, no Longwave DX was possible during the trip.

**Rockwork 4 - Rocking as Usual!** Each morning around 1150 UTC (0450 local time) I would arrive at the humble Highway 101 turn off, set up my 12" FSL antenna on its 5' PVC base, and waterproof the antenna if soggy weather was an issue. During live DU-DXing

the first South Pacific stations (typically 567-RNZ and 738-Radio Polynesie) would already be audible and strong by 1200, but on exceptional mornings anything could be strong by that time. From the very first day several South Pacific AM stations began pegging the PL-380's S/N readout at the 25 maximum - indicating that I really was tapping into a freakish ocean cliff propagation boost again! All of these wildly enhanced signals (531-PI, 567-RNZ, 594-3WV, 738-Radio Polynesie, 774-3LO and 783-Access Radio) were received on the low band during this DXpedition, for some unknown reason. In an effort to share the daily results (and MP3 recordings) with other DXers on the coast, a laptop computer and Edirol R09 MP3 recorder were used to post a daily South Pacific DXing report from our Cannon Beach motel.

**Freakish South Pacific Propagation - the "Pipeline" to New Zealand:** The most astonishing aspect of the entire week was guaranteed strong propagation to NZ on 7 out of 7 days, with a repeating group of 7 Kiwi "big guns" very vibrant each morning (531-PI, 567-RNZ, 603-R. Waatea, 657-Southern Star, 675-RNZ, 765-R. Kahungunu and 783-Access Radio). Other DXers on the coast were reporting shifting propagation making the DU's drop out or allowing reception of Asian signals, but this never occurred on Rockwork 4. Not a single Asian station was received during the entire week. The only day-to-day change in propagation on the Cliff was a pattern where Australian signals would be boosted up to freakish levels along with the Kiwis, only to fall back to normal levels after a day or two. Even when the Aussies were boosted up on these days, they did not crowd out the Kiwis, which were as strong as ever. On these days (such as July 27<sup>th</sup>), several of the DU frequencies became noisy snarls. The MP3 recordings of 531-PI, 594-3WV, 774-3LO and 783-Access Radio were



boosted by the freakish propagation, and were probably the strongest ever recorded on the west coast.

The entire experience of receiving such astonishing South Pacific signals on a highly exposed ocean side cliff 400 feet (122m) directly above the Pacific Ocean provided the adrenaline rush of a lifetime... and definitely convinced me that our hobby has more than enough excitement waiting for those who are willing to take on new challenges, and try DXing in innovative new ways!

**Yachats DXpedition Visitors Arrive:** On July 25<sup>th</sup> I had the great honor of welcoming four of the Yachats DXpedition group to our Cannon Beach motel, and having lunch with them right on a beachfront patio. Included in this distinguished group of famous AM-DXers was noted east coast DXpeditioner Bill Whitacre (who had contributed so much to the FSL testing program last summer), Mauno Ritola (a famous DXer from Finland, specializing in extremely long beverage antennas), Vlad Titarev from the Ukraine (a professor with superb scientific credentials, as well as a superb sense of humor) and Victor Goonetilleke from Sri Lanka (a fellow amateur radio licensee, whose call sign creates awesome pileups). We discussed the relative results of our "apples and oranges" DXpeditions, and had great conversations about FSL antennas (especially the 12" tunable model, which appeared to interest all of the visitors), ocean cliff DXing, and the current status of high-priority targets like 558-Fiji and 621-Tuvalu.

**Conclusion:** The humble PL-380 and 12" FSL antenna were greatly boosted by freakish ocean cliff propagation all week long at Rockwork 4, especially on the low-band frequencies. A total of 39 South Pacific DX station recordings were made on the Cliff, many of them at unusually strong levels (considering the DU stations' weak reputations). Exotic DX wasn't plentiful, although 1017-Tonga was received and recorded during a lucky late sign off at 1203 on the 25<sup>th</sup> (thanks to Bruce for the tip). As usual, New Zealand stations dominated on the Cliff, with low-powered signals from 603-Radio Waatea and 765-Radio Kahungunu sounding very much like "big guns" on most mornings. The entire Cliff almost seemed like a special, additional piece of Kiwi real estate.

Although everything about this Rockwork 4 ocean cliff DXpedition was completely different from the major Yachats operation 98 miles to the south (including radios, antennas, locations, altitudes, MP3 recording times, live DXing vs. spectrum capture, etc.), in the "apples and oranges" comparison of South Pacific DXing results, it can be safely said that the freakish ocean cliff propagation at Rockwork 4 provided a huge boost to the PL-380 and 12" FSL antenna team – tilting the odds to make them unusually competitive. It's also clear that this newly-documented ocean cliff propagation boost provides an all-new DXing option for west coast hobbyists chasing "weak-signal" DU's... allowing us to receive and record South Pacific DX in unprecedented quality and quantity. The challenge for west coast transoceanic DXers is now to design and deploy effective small-footprint broadband antennas that can allow the Perseus-SDR enthusiasts to also "tap into" this awesome cliff-enhanced propagation – and thereby raise the DU-DXing enjoyment level for everyone.

73 and Good DX, Gary DeBock

**DX MP3 Recordings:** The following South Pacific DX stations were received on a 7.5" loopstick Tecsun PL-380 Ultralight inductively coupled to a 12" Standard (single-optimized-frequency) FSL antenna at the "Rockwork 4" ocean side cliff on Highway 101, about 10 miles south of Cannon Beach, Oregon from July 21-27, 2013. Signals which maxed out the PL-380's S/N display (25) at the time of recording are identified with **bold underling** of the frequency. Thanks very much to Theo, Mauno, Chuck, Bruce, Tony and Jim for DU station information, and for Bill Whitacre for very extensive assistance in FSL antenna testing and evaluation (leading to the ocean cliff side enhanced propagation discovery).

- 531** **NEW ZEALAND**, PI, Auckland, 5 kW. This Samoan language station had a hammerlock on the frequency most of the time, rarely allowing Aussie talk stations to squeak through. This MP3 demonstrates its typical strength, along with that of the usual Aussie co-channel. <http://www.mediafire.com/listen/vnx12sra6srbnea/531-PI-1231z072213PL380.MP3>. The Samoan language station rarely runs a completely different EE format, though (as in this MP3) – more than sufficient to completely fool a sleep-deprived ocean cliff DXer (thanks, Theo.) <http://www.mediafire.com/listen/7mk9jj1718twh21/531-PI-1322z072613PL380.MP3>.



- 531 **AUSTRALIA**, 2PM, Kempsey, 5 kW. Presumed the one with "31-PM" identification 8 seconds into the MP3. Apparently this was the Aussie "talker" station trying to break through the huge 531-PI signal all week, but since other Aussie east coast "talker" stations are also on the frequency, this isn't certain.  
<http://www.mediafire.com/listen/89cak3m3us97wia/531-2PM-1300z072713PL380.MP3>.
- 531 **UnID DU**, Aussie "talker" station temporarily on top of 531 for a brief period around 1230 on 7-22. Another apparent Aussie mixes with this one in a vibrant mix in the middle of the recording before 531-PM comes back. Uncertain if this is 531-2PM or another one of the Aussie talk format stations on the frequency.  
<http://www.mediafire.com/listen/w0cxa6rsr0mijhy/531-UnID-Aussie-1230z072213PL380.MP3>.
- 558 **UnID DU**, Strong carrier here occasionally managed weak audio, but there was too much domestic splatter to dig out any clues. Was trying for a possible Radio Fiji One (which now has no //.)
- 567** **NEW ZEALAND**, RNZ National, Wellington, 50 kW. Always managing a huge signal by around 1230, this music and interview station was by far the strongest of the RNZ network. Usually the first Kiwi station to fade in each morning.  
<http://www.mediafire.com/listen/1ev02jh0ye59xfc/567-RNZ-1216z072713PL380.MP3>.
- 576 **AUSTRALIA**, 2RN, Sydney, 50 kW. RN network big gun was pretty vibrant on the days when propagation opened to Australia. Plays a variety of diverse music and interviews, // 792.  
<http://www.mediafire.com/listen/idq78elws30pzma/576-2RN-1303z072413PL380.MP3>.
- 585 **AUSTRALIA**, 2WEB, Bourke, 10 kW. Occasionally fading in with weak rock music, this station had the edge over an even weaker Radio Ngati Porou. This very marginal MP3 with James Taylor's "You've Got a Friend" song was matched with the programming log by famous DXer David Sharp (Programming Director), who promptly issued an e-QSL.  
<http://www.mediafire.com/listen/geimfubkdv7y4h2/585-2WEB-1250z072213PL380.MP3>.
- 585 **NEW ZEALAND**, R Ngati Porou, Ruatoria, 2 kW. This ghostly Maori-language underachiever was apparently heard for the first time ever on the west coast last year at this site. Identified only by its parallel with 603 or 765 during these late-night (in NZ) hours, it rarely was strong enough to even confirm a parallel.  
<http://www.mediafire.com/listen/86mapozv5j881h2/585-R.NgatiPorou-1326z072713PL380.MP3>.
- 594** **AUSTRALIA**, 3WV, Horsham, 50 kW. An underachiever during previous ocean cliff trips, this Aussie LR network big gun finally dominated the frequency over the low-powered Kiwi NZ Rhema network – and did it all week long.  
<http://www.mediafire.com/listen/0yzqh6hpoz5j43i/594-3WV-1244z072213PL380.MP3>.
- 594 **NEW ZEALAND**, Rhema, Timaru/ Wanagnui, 5 kW/ 2 kW. Usually way under 3WV this week, it managed this vibrant signal all by itself on the first day of the DXpedition. Plays Christian contemporary music (thanks to Jim Niven for music genre identification.)  
<http://www.mediafire.com/listen/v2871q170bnsv0b/594-NZ.Rhema-1318z072113PL380.mp3.MP3>.
- 603 **NEW ZEALAND**, R Waatea, Auckland, 5 kW. Maori-language music and interviews were vibrant as usual throughout the week, and surprisingly stable. No Aussie competition on the frequency, as was sometimes heard in previous trips.  
<http://www.mediafire.com/listen/u25glqbzfr7e2h3/603-R.Waatea-1253z072213PL380.MP3>.
- 639 **NEW ZEALAND**, RNZ National, Alexandra, 2 kW. Once again dominant on the frequency (after the demise of R Fiji One). Parallel with 567 and 675, its signals weren't exactly vibrant, but usually good enough to keep the Aussie talker 2HC at bay.  
<http://www.mediafire.com/listen/oeqb940otcfw676/639-RNZ-1304z072213PL380.MP3>.
- 639 **AUSTRALIA**, 2HC, Coff's Harbour, 5 kW (presumed.) Based on its frequent pestering of RNZ during previous trips, this is the presumed Aussie talker (male) in a low-level snarl with Alexandra (female) in this MP3.  
<http://www.mediafire.com/listen/7jc03dj4o8k87lj/639-UnID-DU-1313z072713PL380.MP3>.
- 657 **NEW ZEALAND**, Southern Star, Wellington, 50 kW. Christian music station was one of the seven Kiwi "big guns" during the week, although it occasionally had some domestic splatter issues. Always vibrant and stable every morning.  
<http://www.mediafire.com/listen/bo1yjum6wr6em9v/657-SouthernStar-1242z072313PL380.MP3>.
- 675 **NEW ZEALAND**, RNZ National, Christchurch, 10 kW. The second of the RNZ network to make this "Top Ten" list, it typically came in slightly weaker than its 567 parallel. Has music, interviews and national news.  
<http://www.mediafire.com/listen/tktcaddq46c7bwg/675-RNZ-1228z072113PL380.mp3.MP3>.
- 684 **NEW ZEALAND**, Rhema, Gisborne, 5 kW. Good signals in general from this Christian contemporary music broadcaster, but not at the freakish level observed at Cape Perpetua last year. Better strength than its 594 // this week.

- <http://www.mediafire.com/listen/5g75cqsw5jw9qt/684-NZ.Rhema-1309z072713PL380.MP3>.
- 702 **AUSTRALIA**, 2BL, Sydney, 50 kW. LR network big gun was only heard on one morning because of Kiwi-slanted propagation at the cliff. It was pestered by a co-channel (probably the 10 kW Kiwi Radio Live) even on that morning.  
<http://www.mediafire.com/listen/4sycdkybyutp3ff/702-2BL-1236z072713PL380.MP3>.
- 702 **NEW ZEALAND**, R Live, Auckland, 10 kW. Although no ID, seemingly the logical one with the male voice in a vibrant mix with 2BL at 1239 on the last day (7-27). Strangely enough, it was never heard on the other days.  
<http://www.mediafire.com/listen/azh41fix7lj968/702-UnID-DU-1239z072713PL380.MP3>.
- 729 **UnID DU**, Weak speech from the DU direction way under 730-Vancouver splatter on the last day. Seemingly lost in the Vancouver "traffic," I have no idea who this is.  
<http://www.mediafire.com/listen/jb0iwciou3u8435/729-UnID-DU-1243z072713PL380.MP3>.
- 738** **TAHITI**, R Polynesie, Mahina, 20 kW. Once again, a FF language blowtorch all week, and typically the first DU to reach vibrant audio (usually around 1200). Plays FF and EE pop music, with occasional FF interviews.  
<http://www.mediafire.com/listen/s9tk16zjc3z0u9l/738-R.Polynesie-1259z072313PL380.MP3>.
- 747 **UnID DU**, Female-voiced DU EE speech only 3 kHz (and 75 miles) away from the 50 kW major west coast pest 750-Portland. NZ resident Tony King says this may be Newstalk ZB with a final weather report for the night. In any case, it was a bizarre logging made possible only by the solid rock cliff between the DXing site and the 50 kW pest.  
<http://www.mediafire.com/listen/ucycytuynyvdcbo/747-UnID-DU-1305z072713PL380.MP3>.
- 756 **NEW ZEALAND**, RNZ National, Auckland, 10 kW. Not one of the stronger RNZ network performers during the week. // 567 etc.  
<http://www.mediafire.com/listen/ez44uuruailjxd/756-RNZ-1228z072413PL380.MP3>.
- 765 **NEW ZEALAND**, R Kahungunu, Napier-Hastings, 2.5 kW. The lowest powered of the "Top Ten" DU stations, this Maori language overachiever still packed a strong punch every day. Typically has Maori language music and speech, but occasionally plays old Motown favorites like the Smokey Robinson hit in this MP3. // 603 at times.  
<http://www.mediafire.com/listen/l9441a2pw5l9u9r/765-R.Kahungunu-1226z072613PL380.MP3>.
- 774** **AUSTRALIA**, 3LO, Melbourne, 50 kW. This LR network big gun could send a blistering signal into the Cliff when Aussie signals rose up. // 828, 891 and other LR network stations, it has variety programming with news, music and interviews.  
<http://www.mediafire.com/listen/022kazej9zljzzx/774-3LO-1227z072713PL380.MP3>.
- 774 **UnID DU**, Island-type music briefly over 3LO on only one day out of seven (7-25). Also noted by Mauno, although neither of us have any ID clues. Maybe the Philippines?  
<http://www.mediafire.com/listen/1btmft4gmfp44y/774-UnID-DU-1232z072513PL380.MP3>.
- 783** **NEW ZEALAND**, Access R, Wellington, 10 kW. This ethnic programming station was one of the big surprises of the week, with potent signals on seven out of seven days. A real underperformer during previous DXpeditions, it really broke out this time. Thanks to Theo for info.  
<http://www.mediafire.com/listen/q3ta72b51kwvo5q/783-AccessRadio-1248z072113PL380.mp3.MP3>.
- 792 **AUSTRALIA**, 4RN, Brisbane, 25 kW. This RN network big gun could be potent when favorable Aussie propagation kicked in, but was missing in action otherwise. Plays a variety of diverse music from around the world, // 576.  
<http://www.mediafire.com/listen/x2022a10wee1ktn/792-4RN-1254z072713PL380.MP3>.
- 828 **AUSTRALIA**, 3GI, Sale, 10 kW/. Although the MP3 sports programming sounds like the Kiwi co-channel, this program was matched with the same one on Aussie LR parallel 774-3LO. Dominated the frequency all week, although not at big gun level.  
<http://www.mediafire.com/listen/xyb37x4pajpp4lr/828-3GI-1244z072613PL380.MP3>.
- 828 **NEW ZEALAND**, R Trackside/Live Sport, Palmerston North, 2 kW .The best that Trackside could manage during this DXpedition was to make it a close horse race with 3GI at times. Heard in this vibrant mix with its constant co-channel.  
<http://www.mediafire.com/listen/pgy2m3anjisl8i/828-R.TracksideMix-1245z072613PL380.MP3>.
- 855 **UnID DU**, Heard only once during favorable Aussie propagation, this weak DU suffered badly from 850-KHHO's IBOC (which followed me here from my home area). Possibly one of the 10 kW Aussie LR stations, but too unstable to check the 774 //.  
<http://www.mediafire.com/listen/yw3pbr557gdbbdy/855-UnID-DU-1255z072613PL380.MP3>.
- 891 **AUSTRALIA**, 5AN, Adelaide, 50 kW. Somewhat of an underperformer during this DXpedition, the LR network big gun suffered on most days from Kiwi-slanted propagation. At least it managed regular signals, unlike its co-channel 4TAB (which didn't show up at all.)  
<http://www.mediafire.com/listen/qcxj9kwn6kc7cdv/891-5AN-1254z072613PL380.MP3>.



- 936 **UnID DU**, This fair-level DU only showed up once during favorable Aussie propagation. With its male DU EE discussion about democracy, my best guess is either 4PB or 7ZR (but too unstable to check a parallel.)  
<http://www.mediafire.com/listen/oh6x93170wu4185/936-UnID-DU-1258x072713PL380.MP3>.
- 963 **NEW ZEALAND**, Southern Star, Christchurch, 10 kW (presumed.) After comparing the female voice on this MP3 (presenting TOH news) with Bill's various TOH recordings of Southern Star having the same voice, I'm fairly sure of the identity. Despite favorable Kiwi propagation, this station was MIA on 6 out of 7 days.  
<http://www.mediafire.com/listen/vdk5a8py436sz9y/963-UnID-DU-1303z072613PL380.MP3>.
- 1008 **NEW ZEALAND**, Newstalk ZB, Tauranga, 10 kW. Fairly regular each morning, this station was the strongest of the ZB network. Usually featured a call-in talk program or interviews during these early morning hours in NZ.  
<http://www.mediafire.com/listen/3f6u2a53a499955/1008-NewstalkZB-1251z072413PL380.MP3>.
- 1017 **TONGA**, A3Z, Nuku'alofa, 10 kW. A lucky logging made possible only due to an unusually late sign-off time. Showing up just as I arrived at the soggy cliff around 1200, this Tonga MP3 would have been much better without the domestic splatter (which Bill avoided, in his awesome MP3 recorded at Grayland). Sign-off routine with choral music and YL speech – first time heard for me since August 2010 in Lincoln City, Oregon.  
<http://www.mediafire.com/listen/87bceak385xw680/1017-Tonga-1203z072513PL380.MP3>.
- 1017 **UnID DU**, Apparent sports-related interview by two DU EE speaking males. Unable to check parallels at the time, so uncertain whether this is R Sport/ Newstalk ZB or the Aussie horse-racing station 2KY.  
<http://www.mediafire.com/listen/ti9zzw1o1cwu5z/1017-UnID-DU-1248z072413PL380.MP3>.
- 1035 **NEW ZEALAND**, Newstalk ZB, Wellington, 20 kW. Not much of a performer this week despite its clear frequency and 20 kW power, this station was a poor second to its 1008 parallel whenever it showed up.  
<http://www.mediafire.com/listen/0xb4ypcsqk4z1k8/1035-NewstalkZB-1207z072513PL380.MP3>.
- 1116 **AUSTRALIA**, 4BC, Brisbane, 17 kW. Pretty good signals from this commercial Aussie big gun on most days but always mangled by intense splatter from 50 kW semi-local 1120-KPNW. Apparent call-in program on most mornings.  
<http://www.mediafire.com/listen/9akly61nrn44bd5/1116-4BC-1320z072613PL380.MP3>.
- 1503 **NEW ZEALAND**, R Sport, Wellington/Christchurch, 5 kW/ 2.5 kW. Presumed the one with sports-related talk concerning the NBA. No sign of the Aussie co-channel during the entire DXpedition.  
<http://www.mediafire.com/listen/l83at3aa90xdt2/1503-R.Sport-1254z072413PL380.MP3>.

**ADDITIONAL RESOURCES:** July 2013 Oregon Cliff (Rockwork 4) DXpedition Video.  
<http://www.youtube.com/watch?v=qWSqvb9NdLo>.

## August 16-19 Cape Perpetua (OR) DXpedition

Gary DeBock

The latest wild ocean cliff DXpedition was conducted from August 16-19 at the most prominent Highway 101 turnoff on Cape Perpetua, Oregon's highest ocean side cliff (2 miles south of Yachats, in Lincoln County). Each morning during the 4-day trip a 12" FSL antenna was set up on a 5' high PVC base during sunrise enhancement, and an all-out effort was made to chase South Pacific (DU) AM stations with a 7.5" loopstick Tecsun PL-380 Ultralight radio (inductively coupled to the FSL).

As compensation for occasional foul weather, loud traffic noise and many curious stares, Cape Perpetua's ocean cliff worked wonders in enhancing transoceanic DX signals from both the South Pacific and Asia. 3 RR longwave, 7 South Pacific Medium Wave and 3 Asian Medium Wave signals pegged the PL-380's S/N display at the 25 maximum during MP3 recordings – the greatest number of such huge signals ever received during any ocean cliff DXpedition. Since all the excitement was crammed into a short 4-day period, each morning session provided a new lesson in how the sheer ocean cliff could twist and turn transoceanic propagation in bizarre ways.

Posted below are MP3 links for South Pacific and Asian DX signals recorded during the DXpedition, with huge signals that pegged the PL-380's S/N readout at the time of recording identified with **bold underlining** of the frequency. All longwave DX signals were received on a 7.5" LW loopstick PL-380 + 8" longwave FSL antenna, and all Medium Wave DX signals were received on a 7.5" MW loopstick PL-380 and 12" FSL antenna. As always, any comments, suggestions or criticisms are most welcome. For those interested, a DXpedition video showing the Cape Perpetua MW-DXing setup (along with the ocean cliff scenery, and sleep-deprived narrator) is posted at

<http://www.youtube.com/watch?v=s-TNFg-y4bQ>. A still photo showing the DXing setup is posted at <http://www.mediafire.com/view/cw5uw5egiwclrqc/CapePerpetuaSetup.jpg>.

73 and Good DX, Gary DeBock (in Puyallup, WA, USA)

- 153** **RUSSIA**, Komsomolsk, R Rossii, 1200 kW. The best signals ever heard from the RR longwave station were received during this trip, with the variety programs frequently pegging the PL-380's S/N during each of the 4 morning sessions.  
<http://www.mediafire.com/listen/50arcjo43kt08vp/153-R.Rossii-1220z081613PL380.MP3>.
- 180** **RUSSIA**, Yelizovo, R Rossii, 150 kW. This Rossii network station pegged the PL-380's S/N for the first time ever during this trip. Excellent signals were received on all 4 mornings.  
<http://www.mediafire.com/listen/u6vdmfvnti9aqpi/180-R.Rossii-1218z081813PL380.MP3>.
- 189 **RUSSIA**, Konstantinogradovka, R Rossii, 1200 kW. Despite its high power this Rossii relay fell somewhat short of the others in signal strength. Occasionally it dropped down into the noise, unlike the stable regulars on 153, 180 and 279 kHz.  
<http://www.mediafire.com/listen/bsbq6335mv7vrw7/189-R.Rossii-1216z081813PL380.MP3>.
- 234 **RUSSIA**, Arman, R Rossii, 500 kW. Another of the Rossii relays with uncertain signals. Occasionally it would be quite vibrant but it was often completely gone, or buried by nearby Alaskan super-beacon 233-ALJ.  
<http://www.mediafire.com/listen/yd7cy4nl02s1q81/234-R.Rossii-1219z081813PL380.MP3>.
- 279** **RUSSIA**, Yuzhno-Sakhalinsk, R Rossii. This huge signal not only pegged the PL-380's S/N when coupled to the 8" longwave FSL, but pegged it on the 7.5" LW loopstick alone. This was the strongest longwave signal received on any of my 12 ocean coast DXpeditions, as the RR YL sounds like she is testing the crunch resistance of the PL-380.  
<http://www.mediafire.com/listen/jmxbchc3td4q5hd/279-R.Rossii-1216z081913PL380.MP3>.
- 529 **ALASKA**, SQM, Level Island. Weather beacon at vibrant level on most mornings, with co-channel weather beacon underneath (apparently FDV in Nome, Alaska).  
<http://www.mediafire.com/listen/bpdv9zsgp6yjqk/529-SQM-mix-1223z081713PL380.MP3>.
- 531 **JAPAN**, JOQG, Morioka, 10 kW. Showing up briefly on the last day in a mix with 531-PI and the UnID Aussie(s), this NHK1 station seemed strangely out of place in the DU mix. A weak female-male JJ conversation descends into the noise as 531-PI slowly regains the frequency over the JJ and DU co-channels.  
<http://www.mediafire.com/listen/kygic8d8tgnyyqj/531-PI-JOQGMix-1252z081913PL380.MP3>.
- 531** **NEW ZEALAND**, PI, Auckland, 5kW. This Samoan-language station was a powerhouse, but almost always had an unidentified Australian (or the JJ NHK1 station) along with it. One of the best Kiwi performers during the trip.  
<http://www.mediafire.com/listen/ijm9n3o7homwmx2/531-PI-1244z081713PL380.MP3>.
- 531 **UnID-Aussie**, Although most of the eastern Australian stations on 531 have apparently switched over to a talk format, this mystery station was playing pop music at 1335 on 8-18, and temporarily dominant over 531-PI. An ID of sorts starts at 12 seconds into the MP3, but it's tough to decipher the YL's speech for any positive identity clues.  
<http://www.mediafire.com/listen/m9af19df12oax7b/531-UnID-Aussie-1335z081813PL380.MP3>.
- 558 **NEW ZEALAND**, Invercargill, R Sport, 5 kW. Received once during superb propagation at 1333 on 8-17, this sports news station had fairly decent audio over a 5 minute period. NZ resident Tony King confirmed the identity based on the accent of the reporters (presenters). Not listed in any Grayland logs – a possible all-time new west coast DU?  
<http://www.mediafire.com/listen/5a8qz65ty1oqlr7/558-RadioSport-1333z081713PL380.MP3>.
- 558 **UnID DU**, Weak music station mixing with R Sport around 1329 on 8-17. Don't know if this is one of the music format Aussies or a trace of R Fiji One.  
<http://www.mediafire.com/listen/x3bx2s8lsvgeb5w/558-DU-mix-1329z081713PL380.MP3>.
- 567 **AUSTRALIA**, 4JK, Julia Creek, 10 kW. The only real possibility for the DU EE station in a vibrant mix with RNZ at 1257 on 8-17. Only heard once (during superb propagation) over the entire 4 days.  
<http://www.mediafire.com/listen/vczykmlnu132zvy/567-RNZ-mix-1257z081713PL380.MP3>.
- 567 **JAPAN**, JOIK, Sapporo, 100 kW. A few seconds of JJ temporarily on top of RNZ during superb Asian conditions at 1304 on 8-18. Never was heard at any other time during the 4 days.  
<http://www.mediafire.com/listen/r4agf8o6g9bxlho/567-JOIK-1304z081813PL380.MP3>.
- 567** **NEW ZEALAND**, Wellington, RNZ National, 50 kW. This was usually the first DU station to fade in each morning, as well as the strongest Kiwi on most days. Plays a variety of music, interviews and national news, // 639, 675, 756 etc.  
<http://www.mediafire.com/listen/ul63umrnaz5jiq5/567-RNZ-1259z081713PL380.MP3>.

- Full 3-minute recording at S9+ strength including 1300 TOH on 8-17 (3 MB file):  
<http://www.mediafire.com/listen/3yt7kw1og4f5vbo/567-RNZ-1258z081713PL380.mp3>.
- 576 AUSTRALIA**, 2RN, Sydney, 50 kW. Usually playing a wide variety of exotic music, this RN network powerhouse could really blast in when propagation favored it. Parallel to 792, which also was capable of huge signals.  
<http://www.mediafire.com/listen/qz6x4g6wiit264e/576-2RN-1335z081913PL380.MP3>.
- 585 AUSTRALIA**, 2WEB, Bourke, 10 kW. Occasional seconds of weak rock music from this presumed source at times over the 4-day trip, but never enough to piece together a song. Usually was in a ghostly mix with the Maori co-channel.
- 585 NEW ZEALAND**, Ruatoria, R Ngati, 2 kW. Weak and underperforming as usual, it rarely had enough signal to confirm the early-morning // with Maori language partner 603, and never was strong enough for a decent recording.
- 594 AUSTRALIA**, 3WV, Horsham, 50 kW. The best that this Aussie big gun could manage during this trip was a daily fight with the low-power Kiwi NZ Rhema network. A typical mix was this snarl at 1311 on 8-16, with the deep male voice presumed to be the Aussie, and the other voices from NZ Rhema.  
<http://www.mediafire.com/listen/n8obz90f1mjdwn8/594-DUMix-1311z081613PL380.MP3>.
- 594 JAPAN**, JOAK, Tokyo, 300 kW. When propagation shifted to favor Asia on 8-18 this NHK1 big gun had no trouble blasting over the relatively weak DU co-channels. It only showed up for a couple of days, though.  
<http://www.mediafire.com/listen/w68xp71q4upj6e2/594-JOAK-1313z081813PL380.MP3>.
- 594 NEW ZEALAND**, Timaru/Wanagnui, NZ Rhema, 5 kW/ 2kW. Despite its relatively low power this Christian contemporary music network usually managed an equal snarl with the Aussie big gun 3WV (recorded together in MP3 above).
- 603 CHINA**, (Unknown location – Hulun Buir?) Dominant on frequency briefly with weak CC speech during favorable Asian propagation at 1238 on 8-18. Only heard once during the entire 4 days.  
<http://www.mediafire.com/listen/0uwnnwa9vn522ac/603-China-1238z081813PL380.MP3>.
- 603 NEW ZEALAND**, Auckland, R Waatea, 5 kW. This Maori-language station was an exceptional performer for its power level, and usually the strongest of the early-morning (in NZ) Maori-language network. Although Maori music and speech was the norm, it also occasionally played easy listening (or old Motown) music.  
<http://www.mediafire.com/listen/prxnx4ak011930c/603-R.Waatea-1248z081613PL380.MP3>.
- 603 UnID DU**, Music station mixing with 603-Waatea's Maori speech during all-DU propagation late on 8-18 – probably one of the 10 kW Aussie stations (2RN or 4CH) on the frequency.  
<http://www.mediafire.com/listen/j9kje40h7r11r0f/603-UnID-DU-1329z081813PL380.MP3>.
- 603 UnID TP**, Station playing classical music under 603-Waatea during favorable Asian propagation at 1322 on 8-19. Probably 500 kW HLSA in South Korea, which seems to be the most likely suspect having this format from Asia.  
<http://www.mediafire.com/listen/9wu2stnh0e92qil/603-UnID-TP-1321z081913PL380.MP3>.
- 639 AUSTRALIA**, 2HC, Coff's Harbour, 5 kW. This Australian talkback station managed its best signals ever during this trip, drowning out the 2 kW RNZ station most of the time. Occasionally it faced some NHK competition, but it was always the last one on the frequency before sunrise enhancement collapsed.  
<http://www.mediafire.com/listen/t7terv2o7hjtggv/639-2HC-1317z081613PL380.MP3>.
- 639 NEW ZEALAND**, Alexandra, RNZ National, 2 kW. Usually this low-powered RNZ relay owns the frequency during these ocean cliff DXpeditions, but not this time. It was a poor second to 2HC on most days. Heard here at roughly equal strength with its Aussie co-channel during a sports event at 1301 on 8-16.  
<http://www.mediafire.com/listen/y6ypxv9lmpkunpp/639-RNZ-1301z081613PL380.MP3>.
- 639 UnID JAPAN**, Fair JJ was received during favorable Asian propagation at 1318 on 8-19, but there are 3 JJ stations on the frequency, and all with different formats. The closest is JOWN, a 5 kW commercial station in Hakodate.  
<http://www.mediafire.com/listen/1wxckhw9nlnai6f/639-UnID-Japan-1318z081913PL380.MP3>.
- 657 NEW ZEALAND**, Wellington, Southern Star, 50 kW. Strong signals on most mornings with Christian music but troubled with domestic splatter much of the time. Parallel to 963, it usually was the stronger of the two.  
<http://www.mediafire.com/listen/qs668qkjk32e67p/657-SouthernStar-1310z081713PL380.MP3>.
- 666 AUSTRALIA**, 2CN, Canberra, 5 kW. Heard only once during exceptional propagation at 1315 on 8-17, the identity of the station was confirmed by matching the song being played

with its LR-network parallel 738-2NR's song at the same time (the 738 mix of three stations, including 738-2NR, is included at the end of the MP3).

<http://www.mediafire.com/listen/1u0078304ihirtc/666-2CN-1317z081713PL380.MP3>.

675 **NEW ZEALAND**, Christchurch, RNZ National, 10 kW. This station didn't match the signals of its 567 parallel during this trip but usually came in at a fairly vibrant level. Plays music, interviews and news in a daily variety program.

<http://www.mediafire.com/listen/qagdf6vaheb7rnf/675-RNZ-1311z081813PL380.MP3>.

684 **NEW ZEALAND**, Gisborne, NZ Rhema, 5 kW. Usually good signals with Christian contemporary music from this Rhema network station, and usually stronger than its parallel on 594. This recording features a Rhema network public service announcement.

<http://www.mediafire.com/listen/kznavggqgugsd1p4/684-NZ.Rhema-1348z081813PL380.MP3>.

693 **JAPAN**, JOAB, Tokyo, 500 kW. NHK2 big gun snuck in with fair EE lessons and TOH fanfare under domestic splatter during favorable Asian propagation around 1300 on 8-19 – the only station able to do so during the entire trip.

<http://www.mediafire.com/listen/b2rn67t67hrbg4a/693-JOAB-1259z081913PL380.MP3>.

702 **AUSTRALIA**, 2BL, Sydney, 50 kW. Generally good signals from this Aussie big gun, but definitely not up to the monster level of those from 576-2RN or 792-4RN. This has never been a very strong performer on the ocean cliffs, for some unknown reason.

<http://www.mediafire.com/listen/getlk4zcib98r3l/702-2BL-1309z081813PL380.MP3>.

738 **AUSTRALIA**, 2NR, Grafton, 50 kW. This Aussie LR network big gun has never been particularly strong on the cliffs, but this time it did manage to put up a decent fight with Tahiti on most days. The frequent appearance of the 5 kW Kiwi R Live made it a 3-way snarl occasionally, but the Aussie was usually the last one standing at the end of sunrise enhancement.

<http://www.mediafire.com/listen/0mc4b2811cb55zz/738-2NR-1340z081713PL380.MP3>.

738 **NEW ZEALAND**, Christchurch, R Live, 5 kW. Heard for the first time during this cliff trip, the 5 kW Kiwi had very good signals considering the crowded frequency. With frequent commercial ads distinguishing it from the Aussie 2NR, the MP3 below contains its typical programming, according to NZ resident Tony King (along with its typical co-channel, 2NR). Not listed in any Grayland logs under its current name (was previously "R Pacific," with one Grayland log in 2004).

<http://www.mediafire.com/listen/r2yat7autrolb7k/738-RadioLive-1318z081713PL380.MP3>.

738 **TAHITI**, R Polynesie, 20 kW. This FF language big gun never managed its usual blowtorch level during the 4 days, and was usually in an equal-level mix with 2NR and/or R Live. Was usually one of the first DU's to fade out as sunrise enhancement weakened, leaving Aussie 2NR alone on the frequency.

<http://www.mediafire.com/listen/yjli013z13d7sk3/738-R.Polynesie-1319z081713PL380.MP3>.

747 **UnID DU**, This DU EE station was heard briefly at 1343 on 8-16 putting up a valiant fight against the major 50 kW Oregon pest 750-Portland. No idea as to its identity, but Aussies like 4QS would usually be the last DU's around at this late hour.

<http://www.mediafire.com/listen/u33rk8fru8m3rdb/747-UnID-DU-1343z081613.MP3>.

756 **NEW ZEALAND**, Auckland, RNZ National, 10 kW. Not one of the better RNZ performers during the trip, but at fair strength for this last day recording at 1338. Proximity to 750-Portland caused some splatter at times.

<http://www.mediafire.com/listen/ui6k1rs4bko0s14/756-RNZ-1338z081913PL380.MP3>.

765 **NEW ZEALAND**, Napier-Hastings, R Kahungunu, 2.5 kW. Once again an overachiever for its power level, this Maori language broadcaster acted like a Kiwi "big gun" on most mornings. Usually plays Maori music and speech, but occasionally has old pop music like this recording. Usually // 603 during these early morning (in NZ) hours.

<http://www.mediafire.com/listen/gjenj13yu9qqnfv/765-R.Kahungunu-1303z081613PL380.MP3>.

774 **AUSTRALIA**, 3LO, Melbourne, 50 kW. LR network big gun was usually dominant on the frequency, except when JOUB blasted in during Asian propagation. This MP3 at 1344 on the last day features a local "ABC Melbourne" ID (the first time I've heard one).

<http://www.mediafire.com/listen/e37lzl1sussf4jg/774-3LO-1344z081913PL380.MP3>.

**774** **JAPAN**, JOUB, Akita, 500 kW. The strongest of the NHK stations during this DXpedition, it really blasted in when propagation favored Asia. Later on in sunrise enhancement it mixed with 3LO in a snarl until the Aussie finally evicted it off of the frequency.

<http://www.mediafire.com/listen/94wc3tyh20694kr/774-JOUB-1254z081813PL380.MP3>.

783 **NEW ZEALAND**, Wellington, Access R, 10 kW. A real underperformer during this trip, considering its superb signals at Rockwork 4 last month. On most mornings it had feeble audio, if it wasn't completely missing in action.

- 792 AUSTRALIA**, 4RN, Brisbane, 25 kW. Another Aussie powerhouse, typically playing exotic music from around the world. Parallel to 576-2RN, this was usually the last DU to stick around before sunrise enhancement collapsed.  
<http://www.mediafire.com/listen/qyhf8hse32pba68/792-4RN-1323z081613PL380.MP3>.
- 792 NEW ZEALAND**, Hamilton, R Sport, 5 kW. Another Kiwi underperformer during this trip. It barely managed a trace under 4RN on most days, and was useless as a R Sport parallel (as 1503 was also, unfortunately.)
- 828 AUSTRALIA**, 3GI, Sale, 10 kW. Aussie LR network station was usually in a snarl with the 2 kW Kiwi, with neither one able to dominate the frequency until very late in sunrise enhancement, when the Aussie usually took over.
- 828 JAPAN**, JOBB, Osaka, 300 kW. NHK2 big gun blasted onto the frequency with strong signals on the morning of 8-19, and stuck around (through some domestic splatter) for most of sunrise enhancement. Completely missing during typical DU propagation.  
[http://www.mediafire.com/listen/icwy7dkp4fuc96w/828-JOBB-1315z081913PL380\\_\(2\).MP3](http://www.mediafire.com/listen/icwy7dkp4fuc96w/828-JOBB-1315z081913PL380_(2).MP3).
- 828 NEW ZEALAND**, Palmerston North, R Trackside/Live Sport, 2 kW. Pretty good signals from this low-powered Kiwi station, which gave the Aussie 3GI a good horse race most of the time.  
<http://www.mediafire.com/listen/4wr9a7ogdjpyuxu/828-R.Trackside-1346z081613PL380.MP3>.
- 891 AUSTRALIA**, 5AN, Adelaide, 50 kW. Aussie LR network powerhouse had very good signals for most of the trip, although not at the freakish level observed last year at this cliff site. Parallel to 774 and others, it typically has interviews, news, and occasional music.  
<http://www.mediafire.com/listen/ffalssf6wk1ooho/891-5AN-1328z081613PL380.MP3>.
- 891 JAPAN**, JOHK, Sendai, 20 kW. This NHK1 station was on top of the crowded frequency for a short time on the last day of 8-19 before being dispatched by 5AN (and the DU mix recorded above). Only heard during this one morning session.  
<http://www.mediafire.com/listen/mtdcmm2mrl3t2ud/891-JOHK-1317z081913PL380.MP3>.
- 891 UnID DU**, This fairly wild mix on the last day at 1326 apparently has 5AN, 4TAB, and possibly the 5 kW Kiwi The Breeze. Asian propagation had already collapsed, leaving JOHK out of this graveyard-like snarl.  
<http://www.mediafire.com/listen/2h4wglD8mbdnnd8/891-5AN-Mix-1326z081913PL380.MP3>.
- 936 UnID DU**, Heard only once during superb propagation on 8-17, this is most likely one of the 10 kW Aussies on the frequency.  
<http://www.mediafire.com/listen/fp6bhpz7bwzf9w7/936-UnID-DU-1345z081713PL380.MP3>.
- 963 NEW ZEALAND**, Christchurch, Southern Star, 10 kW. Not quite as strong as its 657 parallel, it occasionally managed fair signals with its Christian music. It was missing in action on some days, though.  
<http://www.mediafire.com/listen/z93adbku4ykcumy/963-SouthernStar-1348z081713PL380.MP3>.
- 1008 JAPAN**, JONR, Osaka, 50 kW. JJ commercial station snuck through during Asian propagation on the morning of 8-19 but was missing in action on the other days. Troubled by some domestic splatter on the frequency.  
<http://www.mediafire.com/listen/y252jz187ggri2e/1008-JONR-1330z081913PL380.MP3>.
- 1008 NEW ZEALAND**, Tauranga, Newstalk ZB, 10 kW. Not much of a performer during this trip, it barely managed to clear domestic splatter with its early morning (in NZ) call-in talk programs. None of the other Newstalk ZB frequencies were heard at all.
- 1017 TONGA**, A3Z, Nuku'alofa, 10 kW. This elusive station was on a pretty rough frequency on the central Oregon coast, but a determined effort was made to find it early on 8-17. Although it didn't sign off (with fanfare) at 1105 as I had hoped, I was able to track down "island-like speech" (say something, and then wait about 15 seconds to say something else) around 1131. This bizarre pattern (plus the foreign language) made me pretty sure that the signal was from Tonga.  
<http://www.mediafire.com/listen/je1fsf8fqfpsnbq/1017-Tonga-1132z081713PL380.MP3>.
- 1116 AUSTRALIA**, 4BC, Brisbane, 17 kW. This commercial station was on one of the worst possible frequencies right next to a semi-local pest (1120-KPNW), but it occasionally managed to break through the splatter with its call-in talk program.
- 1566 REP. KOREA**, HLAZ, Jeju, 250 kW. Kind of a parting shot from the Cape Perpetua cliff on the last day of the DXpedition, this freakishly strong signal at 1243 on 8-19 was far and away the strongest that I have ever heard HLAZ in 7 years of DXing. Not only did the JJ YL's voice crunch the PL-380's front end with the FSL boost, but it did the same thing with only the 7.5" loopstick. This was one of the craziest signals on any cliff side DXpedition.  
<http://www.mediafire.com/listen/afd362u69js1ddb/1566-HLAZ-1243z081913PL380.MP3>.
- 1593 CHINA**, Changzhou, CNR1, 600kW. Dominating the frequency with vibrant CC during a single morning session on 8-19, it was the strongest station from that country heard during the DXpedition. Missing in action on the other 4 days.  
<http://www.mediafire.com/listen/56jkbpos0kpknhr/1593-CNR1-1238z081913PL380.MP3>.

## Whither AM Radio (continued)

Daniel Flynn's "AM Radio ... Signing Off," appeared in the July-August 2013 issue of *The American Spectator*. Excerpted below, the full text is at <http://spectator.org/archives/2013/08/05/am-radio-signing-off>.

... A perusal of the April ratings for the nation's biggest media markets shows that just 11 percent of the stations populating the top 10 reside on the AM band. In Washington, D.C., for example, the top-rated AM station ranks 20th among all stations. AM's dwindling appeal to young people helps explain its dwindling overall ratings. Bill Heywood lost his last radio job by aging himself out of the coveted listening demographic. But the desired demographic and the one actually listening remain far apart. Calcified formats, sonic limitations, and automated programs, more so than any geriatric host, has aged AM out of the demographic targeted by advertisers. More than three-fourths of AM listeners exceed 45 years of age. Surely stages of life—when young people reach 45 they too will inevitably show more interest in the talk and news that dominate the AM band—explain the AM/FM generation gap. But the perception that AM is to radio what black-and-white was to television plays a huge role. Apple does not offer AM on any of its iPod devices. Car manufacturers, a group especially mesmerized by modern gadgetry, increasingly think of AM in such terms, too. Later this year, upstart automaker Detroit Electric plans to be the first to the future by rolling off its assembly line a car sans AM radio. Today foreshadows a tomorrow of radio existing only in yesterday.

THE DELINKING of cars and radios is an ominous sign—and not for the automobile industry. Since the 1920s, when the two commodities fueled the postwar boom, the kings of the highways and the airwaves have shared a similar history. The market penetration of the transportation and communication devices closely mirrored one another. In the U.S. through 1927, radio had sold 13 million sets and drivers traveled in 16 million cars. Both introduced Americans to the rest of their country. Later, when radios became a standard feature of automobiles, the luxuries morphed into necessities. Now radio, particularly AM radio, has morphed from essential to superfluous. It's easy to blame advancing technology. It's just not correct. Listener indifference comes not from technological changes but from programming ones. Rather than use the period of its greatest success as a model for revival, AM stubbornly clutches the failure before it. Nevertheless, yesteryear offers valuable lessons to today.

The golden age of radio was the dark age of airwave efficiency. When CBS and NBC employed house orchestras, and the Blue Network broadcast such unsponsored "sustaining" fare as Town Meeting of the Air and the Metropolitan Opera, AM flourished. Rather than concentrate on a focused format, radio offered variety. Stations invested in quiz shows, comedies, soaps, news, music, sports, variety, and simulcasts of local happenings. Record profits came from seeding the airwaves with money that ultimately grew listeners. Content mattered.

The competition for profits came by way of growing the audience rather than streamlining the costs. The industry chieftains grasped that profits required investment. This mentality encouraged broadcasters to fund excellent original programming and supply a range of choice. The variety stemmed in large part because local stations produced their own shows. The horror noir classic *Lights Out*, for instance, started life at midnight on Wednesdays in Chicago before garnering a broader audience on NBC's Red Network. The first incarnation of Bob and Ray began on Boston's WHDH during the 1940s before finding a national home on various outlets for the next 40 or so years. Detroit's WXYZ introduced the world to *The Lone Ranger* and *The Green Hornet*. Radio from the bottom up enjoyed more success than radio from the top down.

Unlike the movies or today's television, radio aired live. This was a key ingredient in the medium's success. The taboo against transcriptions—prerecorded programs—proved so strong that until mid-century actors regularly delivered a second West Coast performance after their initial broadcast aired on the East Coast. Unions, fearful that recorded facsimiles of their members' voices (or sound effects!) would put them out of work, negotiated agreements with broadcasters that made the rerun rare. Up until midcentury, for instance, programs regularly aired live repeats. The goal, surely pursued with excessive zeal, may have been to protect talent. But the result benefitted listeners, who almost always found fresh material.

Transcriptions proved especially contentious with regard to music. The American Society of Composers, Authors, and Publishers (ASCAP) regarded the playing of recorded music on the air as a threat to their members' livelihoods, akin to the way many in the music industry now view illegal downloads. The Federal Communications Commission, at least until 1940, agreed. The government issued licenses to stations agreeing to forgo the airing of recorded music for their first three years. Gerald Nachman explains in *Raised on Radio*, "In the 1930s, each record had to be identified as a recording (that is, an 'electrical transcription,' or ET), which carried a stigma for networks that prided themselves on being live; delayed rebroadcasts were rare. All that changed in 1940, when the

FCC relaxed rules on announced transcriptions, which caused ASCAP to boycott stations; the only music that listeners heard that year was in the public domain.” Whereas contemporary musicians lament stations’ offering “jockless” automation as an offense against the medium’s integrity, they then regarded disc jockeys as tools of automation streamlining them out of work. Early DJs pawned off records as live performances and simply ignored the “Not Licensed for Radio Broadcast” warnings on commercial albums. As strange as it seems 75 years later, the music listeners heard over the airwaves was almost always live.

The Federal Radio Commission, and its FCC successor, persistently, if not often tenaciously, encouraged a diversity of programs on the finite number of stations. The Supreme Court even took an interest in “chain broadcasting,” what we refer to today as syndication. In doing so, they unwittingly created ABC by forcing NBC to divest itself of its more highbrow and experimental Blue Network, whose life was saved by the co-founder of the Life Savers candy corporation. “The ‘public interest’ to be served under the Communications Act is thus the interest of the listening public in ‘the larger and more effective use of radio,’” Justice Felix Frankfurter wrote for the court in 1943’s *NBC v. United States*. “The facilities of radio are limited and therefore precious; they cannot be left to wasteful use without detriment to the public interest. ‘An important element of public interest and convenience affecting the issue of a license is the ability of the licensee to render the best practicable service to the community reached by his broadcasts.’” Cluttering the AM airwaves, whose 96 channels have since expanded to 116, with the same programs on competing frequencies didn’t meet the referenced threshold established by *FCC v. Sanders Bros.* ...

WITHIN TODAY’S rigid format constraints, and the replacement of familiar voices with distant taped ones, a few still prosper. Dan Rea, whose NightSide program airs from 8 p.m. to midnight on 50,000-watt heritage station WBZ 1030, reaches 38 states on a clear night. “I call my show ‘North America’s back-porch,’” the former television reporter explains. “The idea is that it’s like people climbing up on the back porch and interacting with their neighbors because I often have situations in which someone in Virginia says something that someone in upstate New York is commenting on two or three calls later. There’s a certain intimacy to AM radio and to talk radio that doesn’t exist with FM.” ...

But where (and when) Dan Rea really differs most from the competition—a spin through the dial reveals three Mark Levins, two Michael Savages, and a Roy Masters—is by broadcasting in real time from the place where his target audience resides. “We’re the only live and local show in my time block,” explains Rea. A few years ago, when CBS attempted to replace the midnight to 5 a.m. host with a syndicated talker, listeners rebelled and persuaded corporate ownership to restore the friendly voice they knew. The victory remains one of very few for devotees of overnight radio. AM, which boasts its greatest advantage (signal strength) in the darkness, strangely hoists the white flag after hours with paid programming, repeats, and syndication. It’s efficient radio. It’s just not good radio.

Rea’s placement in the ratings says as much about his broadcast-booth prowess as it does about AM’s broadcasting failure. Simply by showing up for work, Rea offers something novel—a nighttime host conversing with listeners in the same city (and beyond). In a world of exploding choices, AM presents listeners with a menu of news, talk, and sports. And increasingly, the voices discussing the limited fare come recorded and from far away. One-size-fits-all radio unsurprisingly fits into the lives of fewer and fewer Americans. Whereas AM once thrived as a potpourri, it now struggles through its blah sameness. People value entertainment more than information. So long as AM focuses on the latter, listeners will continue to say “so long.”

THAT GOODBYE is a painful one. Listeners habituated to AM’s greatness keep going back expecting to find what they did long ago. They instead find disappointment. But with the migration to FM, automation and syndication driving out live and local hosts, and calcified formats that envision AM as strictly a conduit for information rather than art or amusement—one Radio Ink article pathetically points to emergency broadcasts as a cause for mandating AM in cars—AM slowly loses its loyalists as it fails to condition younger listeners into tuning in.

That’s a shame. Competing communications technologies such as TV owe their existence to very smart people unwittingly dedicated to making the masses dumber. “In radio there was never a term equivalent to boob tube or couch potato,” explained the late Norman Corwin, the radio legend whose first broadcasts came on WBZ. “The eye is so literal, whereas the ear makes a participant of the listener. The listener becomes the set designer, the wardrobe mistress, the casting director.” Radio, particularly AM radio, isn’t a passive medium. On its wavelength, nighttime is the right time. When the lights go out, the light bulbs above our heads go on. That’s why the decision by broadcasters to pull the plug on overnights hurts most. Radio’s picture comes into sharpest focus when listeners close their eyes. There, relaxed in the dark, imagination goes into overdrive. AM at its best, whether Rush Limbaugh making a polemical point or Orson Welles making an artistic one, stimulates rather than anesthetizes thought. ....

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DX News is printed by The Coughlin Printing Group -144 Main Ave – Watertown, NY 13601-1925

First-Class Mail  
U.S. Postage  
PAID  
Watertown, NY  
Permit # 65