



DX MONITOR

The official publication of the
International Radio Club of America

September 17 2016 – Volume 54 Number 03 – Edition 1710 – ISSN 899-9733

Huge issue... lots of DX and other interesting items!! We start the weeklies with our next issue. #4 Seattle "DX Monitor" deadline Monday 9/26 6 PM PLT.

2016 CONVENTION Postscript

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Good crowd! It was nice to meet new folks and to swap lies. Great to see familiar faces and renew ongoing discussions. From comments heard around the room, the car tours and station visits were 'okay.' The tech talk sessions had lots of good pics and video and some new understandings... and the audio was a disaster. (Murphy had been sleeping in the meeting room when we checked out the A-V Friday but was wide-awake Saturday morning.) Dinner was excellent; the post-munching remarks by Kansas City's premier newsman Dan Verbeck were impactful and heartfelt and gave those of us jaded with radio some reasons to be more optimistic (at least about radio news). It was moving to me to see how we as a group helped our Blind friends navigate and interpret. The "D-KAZ-wiki group" from IRCA (Hall-Patch, Kazaross, Whitacre, Durenberger) erected and operated a full-blown D-KAZ antenna in the back yard (thanks to the hotel for their tolerance of our temporary playground). We were even able to attract veteran DX-er Glenn Hauser... who was kind enough to avoid shaking his head over our layout.

(Clean) audio and pics/videos from the activities will be posted shortly.
Cheers! **Mark Durenberger**

NRC AM Radio Log

The NRC is now taking orders for the 37th edition of the **AM Radio Log**. The log will ship to the USA via Priority Mail... Canada and overseas shipping is still Global Priority Mail. Prices are as follows:

USA, NRC and IRCA Members – \$26.95, Non-Members – \$30.95. Canada – US \$39.25, Overseas – US \$49.95.
Paypal orders accepted at <http://www.nrcdxas.org>. Check or Money order USA Funds Only.
NRC, PO Box 473251, Aurora CO 80047-3251
Wayne Heinen, Editor AM Radio Log



IRCA PRESIDENT – Phil Bytheway – 9705 Mary NW – Seattle WA 98117-2334
E-mail: phil_tekno@yahoo.com

2017 CONVENTION BID

It's that time again. Anyone thinking about hosting an IRCA (or combined) convention in 2017, contact me at the address above. The deadline for bids is October 15th 2016.

Brandon Jordan has resigned as **DX Test – Broadcast Tests Coordinator**. If interested, please contact me right away.

Please read this. My health is starting to become an issue, which means we need to find someone willing to take over the duties of **DX Monitor** Editor-in-Chief on short notice, possibly for the long term. If interested, please contact me ASAP.

We discontinued the printed bulletin some time ago due to a lack of volunteer for Publisher. However, if someone is now willing to step forward as Publisher, I see no reason why we cannot resume putting out a printed bulletin as well as our email version. Duties would involve getting the .pdf to a local printer (copy shop more likely), addressing envelopes (or printing addresses on the bulletins), stamping and mailing the completed issue.

If you are interested in these positions, please contact me at the above address. Thank you... pb



BROADCASTING INFORMATION – Robert J Wien – 14051 Belle Chasse Blvd #415 – Laurel MD 20707
E-mail: wienbob@aol.com Phone: 301-477-3733 Column Deadlines: Saturdays

DATE OF COLUMN: September 10, **Column data span:** August 27-September 10, Data courtesy of **Stationintel.com**, FCC database and member contributions.

CALL CHANGE

FREQ	OLD CALL	CITY OF LICENSE	NEW CALL
1510	WLRB	Macomb, IL	WYEC

FORMAT, SLOGAN AND SILENT STATUS CHANGES

FREQ CALL CITY OF LICENSE

550	WAME	Statesville, NC
580	WELO	Tupelo, MS
620	WVMT	Burlington, VT
670	WIEZ	Lewistown, PA
790	KEJY	Eureka, CA
910	WAVL	Apollo, PA
920	WGNU	Granite City, IL
950	WCTN	Potomac-Cabin John, MD
970	WMPW	Danville, VA
980	WDVH	Gainesville, FL
1120	KLIM	Limon, CO
1130	KLEY	Wellington, KS
1150	KDEF	Albuquerque, NM
	WHUN	Huntingdon, PA
1230	WBBZ	Ponca City, OK
	WAMM	Woodstock, VA
1240	WULA	Eufaula, AL
	WSQL	Brevard, NC
	WDXY	Sumter, SC
	WTPS	Petersburg, VA

NEW INFORMATION

old slogan: "Real Country 550 and 92.9", new: "Real Country 550 and 92.9" (??-ye ed)
old slogan: "Tupelo's Heart and Soul", new: "Tupelo's Heart and Soul" (??-ye ed)
old slogan: "Vermont's #1 For News and Talk", new: "Vermont's #1 For News and Talk" (??-ye ed)
old slogan: "News and Information", new: "News and Information" (??-ye ed)
was silent, back on with new unknown format
was silent, now talk, adds slogan: "News Talk 1480"
was sports, now business news
was ethnic, now new unknown format (heard possibly with AC locally-ye ed)
was classic country, now adult contemporary, old slogan: "Country Legends 103.7", new: "More FM"
old slogan: "101.7 Hank FM", new: "I Am Country"
now silent
was talk, now adult contemporary, old slogan: "News Radio 1130", new: "The Wave"
now silent
was oldies, ESPN sports, now classic hits, old slogan: "ESPN Radio 1150", new: "Hunny 103.5"
was oldies, now talk
was silent, now Americana, adds slogan: "WAMM Radio"
now silent
was variety, now classic hits, old slogan: "Home Of The White Squirrel", new: "Q 102"
old slogan: "News, Talk and Sports", new: "News, Talk and Sports" (??-ye ed)
old slogan: "News Talk and Solid Gold", new: "News Talk and Solid Gold" (??-ye ed)

1260	KWEI	Weiser, ID	was Spanish adult hits, now new unknown format
1290	WWHM	Sumter, SC	now silent
1310	WPBC	Decatur, GA	now silent
1340	WCMI	Ashland, KY	old slogan: "ESPN 1340", new: "Cat Sports 93.3 and 1340"
	WVCV	Orange, VA	was Westwood One Adult Standards, now Westwood One Classic Hits, old slogan: "America's Best Music", new: "105.5 Sam FM"
1360	WKLB	DeKalb, IL	old slogan: "1360 WLBK Local News and Information", new: "1360 Local News and Information" (??-ye ed)
1370	KTPA	Prescott, AR	now silent
1400	KNRO	Redding, CA	was news/talk, now Fox Sports Radio, old slogan: "News Talk 1400 AM 99.3 FM", new: "Fox Sports Radio 1400"
	KBYG	Big Spring, TX	was Westwood One Good Time Oldies, now Westwood One Classic Hits
1410	WIHM	Taylorville, IL	was silent, now Eternal Word Network religious teaching
	WSCW	South Charleston, WV	was religious teaching, now talk, old slogan: "The Light", new: "The Light-Talk That Matters"
1450	WROX	Clarksdale, MS	old slogan: "Classic Soul Rhythm and Blues", new: "Classic Soul Rhythm and Blues" (??-ye ed)
	WSNO	Barre, VT	was talk, now CHR, old slogan: "The Talk Station", new: "105.7 The Beat"
1460	KDMA	Montevideo, MN	old slogan: "Your News and Information Station", new: "Your News and Information Station" (??-ye ed)
1480	KHQN	Spanish Fork, UT	was silent, now religious teaching
1490	KXLQ	Indianola, IA	now silent
	WSTP	Salisbury, NC	now silent
	WCVA	Culpeper, VA	was adult standards, now country, old slogan: "America's Best Music", new: "Today's Country"
	WPAK	Farmville, VA	now silent
1550	WCGR	Canandaigua, NY	was Westwood One Mainstream Country, now Westwood One Classic Rock, old slogan: "K-101.7", new: "101.7 The Wall"
1570	WABL	Amite, LA	was oldies, now classic hits
	WLEE	Winona, MS	now silent
	WFLR	Dundee, NY	old slogan: "Country 96.9 and 1570", new: "Country 96.9 and 1570" (??-ye ed)
1580	WIOI	Columbus, GA	old slogan: "95.7 ESPN", new: "ESPN 1580"
1670	KQMS	Redding, CA	was Fox Sports Radio, now news/talk, old slogan: "News Talk 1400 AM 99.3 FM", new: "News Talk 1670 AM 99.3 FM"

(Note: more 'repeating' slogans from **Stationintel.com**, I'll just continue reporting them as they are reported-ye ed).

MEMBER CONTRIBUTION

Dennis Gibson of Santa Barbara CA (via Mike Sanburn of Bellflower CA) passes along the following dated 9/10/16:

According to Dennis Gibson, KMZT 1260 in Beverley Hills is now KBOQ (calls were originally up near bay area and stood for K-Bach which makes me hope they do not plan to go back to classical). (Note: KBOQ calls were in Monterey-ye ed).

Well, lost out on both of my job interviews, despite being FULLY qualified for both jobs, so back to square one and out of work 7 1/2 months. Send me separate Emails if you have any job leads for me (aerospace engineer), very tough to find a job out there in this economy. I never expected I'd be out of work this long but that seems to be the norm when you're old and have gray hair, I'm sure both jobs above went to people who were in their 20's and could afford to only pay 1/3 the salary I wanted. Appropriately Labor Day just passed, but has no meaning for me right now obviously. I had an interview in Dulles VA on Friday 9/9 with Orbital, that job includes a 3-month stint in Abu Dhabi (!), so we'll see where that goes, DX would be interesting there. Hope the rest of September is better, and DX picks up. 73's. **Bob Wien**



CANADIAN RADIO NEWS – Dan Sys
E-mail: sysdan@gmail.com

For **August 2016** (September 1 2016 – next update October 1 2016)

AM TO FM CONVERSIONS ON THE AIR

830 QC La Tuque CBVE-1 Moved to FM on 101.9 MHz with 598 watts.

CALL LETTER DATA

1490 ON Mississauga new Will become CHTO-1

OFF THE AIR

1410 ON London CKSL Went dark on August 14. License voluntarily rescinded.

NEW STATIONS GRANTED

1490 ON Mississauga Commercial. 23 watts (days)/770 watts (nights). Greek. Will simulcast CHTO 1690 Toronto.

OWNERSHIP CHANGES GRANTED

1280 QC Montreal CFMB From CFMB Limited to The Evanov Radio Group.

Canadian updates (via **Jon Peakins**)

1490 ON Mississauga CHTO-1 Commercial. 23 watts (days)/770 watts (nights). Greek. Will simulcast CHTO 1690 Toronto to cover parts of Toronto where night skywave interference is excessive on 1690. 1490 was the only frequency where adequate night-time coverage was possible without a directional pattern. The 23 watts day power is necessary to protect a "vacant allocation" of 1490 in Gravenhurst ON.



WESTERN DX ROUNDUP – Nancy Johnson – 2922 S Olivewood – Mesa AZ 85212-2923
E-mail: NancyJohnson@prodigy.net

WDXR DEADLINES: Sept 23, Sept 30, Oct 7, Oct 14, Oct 21, Oct 28, Nov 4, Nov 11, Nov 18, Nov 25 and Dec 2. Please use Eastern Local Time.

REPORTERS FOR THIS ISSUE:

- (RB) **Rick Barton**-PO Box 5503-Peoria AZ 85385 desertmoon_dxshack@inbox.com
CountyComm GP-5/SSB; Hammarlund HQ-180A and Terk Advantage loop; Panasonic RF-2200, Grundig Satellit 750 with stock antenna
- (BB) **Bill Block**-Prescott Valley AZ billblock@cableone.net
Drake R8
- (JCJ) **John Johnson**-2922 S Olivewood, Mesa AZ 85212 John_Johnson@prodigy.net
Icom IC-R75, 75' N-S longwire
- (JP) **Jon Peakins**-Edmonton AB jon@peakins.com
SPARC SHD-TX2
- (AWP) **Art Peterson**-Richmond CA awpeteronprf@att.net
Sony ICF-2002, Quantum loop

670 KMZQ **NV**, Las Vegas 8/25 0333 "You're listening to AM 6-70 The Score, KMZQ, Las Vegas," good on RF-2200. Nothing like a good BOTTOM of the hour ID, like days of old! (RB-AZ)

- 720 WGN **IL**, Chicago 8/29 0113 very much dominant with call letter ID, marking the first Chicago station I've heard in 30 years, since CHQT moved to 880 and I lost WLS reception. (JP-AB)
- 790 KABC **CA**, Los Angeles 8/29 0600 network newscast, panic at LAX airport, "Frank Sittipani." Excellent local quality signal with no sign of co-channel stations on Radio Shack SW-2000629 looped for E-W reception. (RB-AZ)
- 800 CKLW **ON**, Windsor 8/13 0234 Penticton and the Mexican mostly owning the channel, but a nice clear call ID popped up. Was really fishing for Moose Jaw, but I'll take this! (AWP-CA)
- 830 KLAA **CA**, Los Angeles 9/1 0050 "On ESPN Radio," (RB-AZ)
- 920 KBAD **NV**, Las Vegas 8/25 0320 "Right here on NBC Sports, 9-20, The Game." Good and no IBOC hash from the local on 910. Monitored on Panasonic RF-2200. (RB-AZ)
- 930 KHJ **CA**, Los Angeles 9/1 0030 many mentions "Immaculate Heart Radio" to "St Joseph's Workshop, with Father Mathew Spencer" program. Very good, dominating and steady on frequency, heard on SW-2000629 oriented for E-W reception. (RB-AZ)
- 940 KGMS **AZ**, Tucson heard 8/27 at 0850 with "KGMS The Good News Station." (BB-AZ)
- 990 KTMS **CA**, Santa Barbara 8/13 0400 Coast to Coast, call and city ID, then into Fox news, KATD looped. (AWP-CA)
- 1060 KIJN **TX**, Farwell 9/1 dominating 1060, local KDUS off the air. 0034 with long promo including legal ID "Jesus Radio KIJN Farwell, Texas" in Spanish. Mentioned station website, myjesusradio.com. New for me. (JCJ-AZ)
- CKMX **AB**, Calgary 9/2 briefly on top 1060, local KDUS off the air. 0037 with promo for CTV News at 11PM followed by another promo for station mentioning both CKMX 1060 and CFAC 960 Calgary into a comedy routine. New for me. (JCJ-AZ)
- 1090 KFNQ **WA**, Seattle 8/29 0107-0109 locked into uninterrupted HD, a first for me for any station here, thanks to weaker than usual XEPRS interference. (JP-AB)
- 1110 KFAB **NE**, Omaha 8/23 0735 local banter, discussing City of Omaha digging up streets repaving, then digging up brand new street for more construction (only in Omaha – NOT). Air signal level but alone and steady on channel on SW-2000629. (RB-AZ)
- 1140 KGEM **ID**, Boise 8/13 0425 EWTN network //local KSF8-1260, Sacramento looped. (AWP-CA)
+8/25 0045 man with lecture on creationism vs science mentions of EWTN. Signal rhythmically wavering causing little green eye go on and off on one second intervals. Good to very good on Radio Shack SW-2000629. (RB-AZ)
- CHRB **AB**, High River 8/25 0059 man suddenly covering KGEM just for a moment with "AM 11-40 is CHRB High River." (RB-AZ)
- 1200 KPSF **CA**, Cathedral City 8/21 0300 TOH ID as "Money Radio, 1200, Cathedral City." Earlier had references to Coachella Valley, where they are located, and spot for business on Highway 111. Yesterday early morning carried Red Eye Radio. New log but was hoping for WOAI. (AWP-CA)
- 1230 KATO **AZ**, Safford heard 8/24 at 2100 with "KATO Safford." (BB-AZ)
- 1260 KPOW **WY**, Powell 8/26 0605 man with local weather forecast "on KPOW," then faded out and gone. (RB-AZ)
- 1280 KZNS **UT**, Salt Lake City heard 8/26 at 0830 with "97.5 and 1280 The Zone." (BB-AZ)
- 1330 KCKM **TX**, Monahans 9/1 0820 "KCKM... in sports." Very good over the muddle on Panasonic RF-2200 oriented for E-W reception. (RB-AZ)
- KOVE **WY**, Lander 8/30 0008 "KOVE AM Country 13-30, very good and at times alone on RF-2200. First for me. (RB-AZ)
- 1400 KCYK **AZ**, Yuma heard 8/28 at 2200 with "Outlaw Country 1400 KCYK Yuma." (BB-AZ)
- KRLN **CO**, Canon City 8/24 mixing with others, no sign of local KSUN. 0100 legal ID "AM 1400 KRLN Canon City." New for me. (JCJ-AZ)
- 1580 KBLA **CA**, Santa Monica 8/23 0120 rap music, urban Black music, male in English taking phone calls in between songs. "Da Radio Show Play it or Slay it" slogan. Very strong and steady until right on the hour when (of course) unexpected local static suddenly covered the channel. ID luckily came through the static to promos and into Spanish language programming after the hour. The English program is apparently just one show and not a change in format. (RB-AZ)
- 1590 KELP **TX**, El Paso 8/23 0100 "Here on KELP," choral music, man with religious lecture. Poor at first, then going up to good over the jumble. (RB-AZ)
- 1630 KRND **WY**, Fox Farm 8/13 0630-0745 mostly white noise, but Mexican popular music surfacing intermittently. Was looking for Texas, but no luck. Used to be TX was easy, and WY was tough, now it's the other way around for me. (AWP-CA)
- 1660 KBRE **CA**, Merced 8/13 0425 The Bear with hard rock and The Bear ID's. (AWP-CA)
- 1670 KQMS **CA**, Redding heard 8/31 at 2259 with "KQMS Fox News Radio," was KNRO. (BB-AZ)

Thank you to our WDXR reporters! – Nancy 9/4 1900



CENTRAL DX ROUNDUP – John C Johnson – 2922 S Olivewood – Mesa AZ 85212-2923
E-mail: John_Johnson@prodigy.net CDXR reports ONLY: cdxr@ircanonline.org

RIDING GAIN

[SP-WI] **Sherry Paszkiewicz**, Manitowoc WI spaszdxer@comcast.net
ATS909, barefoot.

DOWN THE DIAL

610 KCSP **MO**, Kansas City. 8-27 not often heard here anymore. 22:30 with Royals post game show. [SP-WI]
810 CKJS **MB**, Winnipeg. 8-27 over WGY. 22:15 with French MOR music. //online stream. New for me. [SP-WI]

FLASHBACK

September 8, 1990 issue of "DX Monitor" ... **Mike Brooker** of Toronto ON mentioned told about CFGM 640 changing from country to heavy-metal "The Hog" as CHOG ... **Bill Townshend** of Washington DC described his city filled with crooked politics. //September 14 1965 issue of "DX Monitor" ... Election results included new President **Paul Kirkpatrick** and new Secretary-Treasurer **Bill Nittler** ... **Rick Evans** listened to two new records rather than DXing ... **Tom Jasinski** visited KBUN-1450.

OPEN MIKE

The new DX season has started, and this year's DX contest has also started. On the first day I logged a new station waiting for an ID of a known station. See my tips in WDXR. This column was typed 9-2-16 early so Nancy and I can attend the Kansas City convention. 73, John



EASTERN DX ROUNDUP – Eric Bueneman (NØUIH) – 631 Coachway Lane – Hazelwood MO 63042-1347
E-mail: n0uiheric@gmail.com DEADLINES: Thursday 2000 EL

TUNING THE DIALS THIS ISSUE:

(KK-VA) **Kraig Krist** (KG4LAC), Manassas VA
Winradio G33DDC software-defined receiver, Wellbrook ALA1530S+ Imperium loop

(JJR-MI) **John J Rieger**, L'Anse MI
Grundig Satellit 750, Terk AM1000 loop

(PS-ON) **Paul Snider**, Welland ON, Canada
ICOM IC-R75, Pixel RF Pro-1B loop, MFJ-1020C tuner

ACROSS THE DIAL

680 WPTF **NC**, Raleigh – 8/21 2358 noted with news and sports, "News Radio" mentions and "WPTF" ID at 0004. A poor to very poor signal was noted under CFTR. (PS-ON)

870 WHCU **NY**, Ithaca – 8/12 1930 noted with "Covering the top stories of the day; we are 870 AM, 95.9 FM, News/Talk WHCU" ID by a male announcer into Mark Levin. The signal was noted mixing with WWL, WPWT, Radio Reloj (Cuba) and unidentified stations with Christian talk, vocal music and a talk program in Spanish. (KK-VA)
+8/19 2155 noted with the end of the Mark Levin program, local ads, "95.9, 870 AM WHCU Ithaca" legal ID at 2200 into CBS News; ad for Zip Recruiter. A fair to very poor signal was noted over WWL (PS-ON)

- 880 WRFD **OH**, Columbus/Worthington – 8/12 1957 noted with “This is Ohio’s Christian Talk Station, AM 880 WRFD” ID by a male announcer. This sign-off was noted at 2029: “WRFD Columbus/Worthington now concludes its broadcasting day” by a female announcer. The signal was noted mixing with WCBS and unidentified stations with Christian music and Oldies. (KK-VA)
- 900 WCPA **PA**, Clearfield – 8/22 1935 noted with mention of “Where Your Favorites Play, WCPA” by a male announcer. The signal was noted mixing with WILC, CHML and an unidentified sports talk station. (KK-VA)
- 920 WYBY **NY**, Cortland – 8/24 2159 noted with choral music, “This is WYBY Cortland” legal ID at 2200 before fading out. A very poor signal was noted, mixing with WHJJ. (PS-ON)
- WURA **VA**, Quantico – 8/21 2240 noted with Christian talk in Spanish by a male and female announcer, talk by a really loud announcer, mentions of “Espiritu Santo” and “El Diablo”, talk by a male announcer and a group of children, mention of Fairfax, telephone talk and prayers from listeners and Christian music in Spanish, confirmed by Internet audio stream. A poor to at times very poor signal was noted over CKNX and WHJJ. (PS-ON)
- 930 WBEN **NY**, Buffalo – 8/22 1959 noted with “The WBEN First Alert forecast at the top and bottom of every hour; News Radio 930 WBEN” mention by a male announcer into the news. The signal was noted mixing with WFMD, WLLL, WDLX, Radio Reloj (Cuba) and an unidentified vocal music station. (KK-VA)
- 940 WKYK **NC**, Burnsville – 8/22 1857 noted with an “AM 940 WKYK Burnsville” legal ID by a male announcer. The signal was noted mixing with WKGM, WMAC and unidentified stations with a baseball game and Spanish language programming. (KK-VA)
- 950 WKDN **PA**, Philadelphia – 9/1 2118 noted with Christian talk and music, definitely heard a “WKDN” ID at 2119. A very poor signal was noted, mixing with WCTN and a dominant WWJ. (PS-ON)
- WBES **WV**, Charleston – 8/28 1959 noted with “WBES Charleston, 95 the Sports Fox” legal ID by a male announcer. The signal was noted mixing with WCTN, Radio Reloj (Cuba) and an unidentified station with a talk program in Spanish. (KK-VA)
- 980 KKMS **MN**, Richfield – 8/31 0756 noted with legal ID and “The Mission” mention. A poor signal was noted, way under WCUB. (JJR-MI)
- WJYK **VA**, Chase City – 8/28 2100 noted with “This is Joy 980 WJYK Chase City, Virginia” legal ID by a male announcer. The signal was noted mixing with WTEM and unidentified stations with Oldies in English and vocal music in Spanish. (KK-VA)
- 990 WLLI **PA**, Somerset – 8/28 1859 noted with “The Laurel Highlands News/Talk/Sports Network is 1490 WNTJ Johnstown and 990 WLLI Somerset” legal ID by a male announcer into Fox News Radio. The signal was noted mixing with WNRV, WEEB and unidentified stations with CBS Sports Radio and Spanish language programming. (KK-VA) (Your CBS Sports Radio station is WNML Knoxville TN – eb)
- WNRV **VA**, Narrows/Pearisburg – 8/28 1959 noted with “This is WNRV Narrows/Pearisburg/Roanoke” legal ID by a male announcer. The signal was noted mixing with WLLI, WEEB, WNML and an unidentified station with Spanish language programming. (KK-VA)
- 1000 WCCD **OH**, Parma – 9/1 1935 noted with mentions of “Radio 1000” and “Radio 1000-dot-org” by a male announcer. “Radio 1000, The Praise-ness station in the Nation” ID; first time heard in Manassas. “Praise-ness” is a new word for me, too. The signal was noted mixing with WMVP, WRQR and an unidentified Country station with a terrible noise, probably digital hash. (KK-VA) (The digital hash comes from WINS 1010 New York – eb)
- WRQR **TN**, Paris – 9/1 2039 noted with “97.5 and AM 1000 WRQR” ID by a male announcer. The signal was noted mixing with WMVP, WCCD and an unidentified Country station with a terrible noise, probably digital hash from WINS. (KK-VA)
- 1070 WCSZ **SC**, Sans Souci – 8/30 2258 noted with Spanish language pop music, “La Jefa” ID at 2302, more music, “Numero Uno... La Jefa” ID at 2310. A fair at times to poor signal, mixing with CHOK. (PS-ON)
- 1120 WPRX **CT**, Bristol – 9/5 2102 noted with Tropical music, announcements, multiple “La Puertorriquenísima” (The Most Puerto Rican) mentions, verified by check of Internet stream. A poor to very poor signal at times over KMOX. (PS-ON)
- 1160 WVNJ **NJ**, Oakland – 8/23 2300 noted with “This is the USA Radio Network” mention at 2304, *Free Talk Live*, ad cluster including “How to Get Rich in Real Estate”, A Place for Mom, nutritional supplements, Portable Solar LLC and Sling Bow-dot-com, *Free Talk* hosts promoting My Pillow product and more ads, verified by Web stream at WVNJ-dot-com. A poor to very poor signal was noted, mixing with WCCS and probables WCXI, WBYN and an ESPN station (WPIE or WODY?). (PS-ON)
- 1230 WCMC **NJ**, Wildwood – 9/6 2255 noted with “Classic Oldies WMID” ID while trying to identify a CBS Sports Radio station (WFAS?), into an Oldies format, including a version of “Moon River”, “Born Too Late” by The Poni-Tails, “Blue Suede Shoes” by Elvis Presley, clear ID at 2313:” Classic Oldies 1230 and 1340 WMID”, followed by “That’ll Be the Day” by Buddy Holly //WMID 1340 Atlantic City. A poor to very poor signal was noted in a mix of stations. (PS-ON)
- 1270 WILE **OH**, Cambridge – 9/5 2202 noted with ESPN promos, *Baseball Tonight* featuring a discussion with Darryl Strawberry, ad cluster including MD Hearing Aid – Air, Fox News Radio, show promo, Community Calendar, weather forecast giving current temperature as 70 degrees, EDT time check at 2216, another show promo, mentions of “ESPN Cambridge”. A poor at times to very poor signal with local WHLD nulled. (PS-ON)
- 1290 WKLJ **WI**, Sparta – 8/31 0826 noted with “ESPN 1290” ID mentioning 102.1 and 105.5 FM and an ad for La Crosse Academy. A poor signal was noted; alone on the channel. (JJR-MI)
- KOWB **WY**, Laramie – 8/30 0722 noted with *America’s First News*, ad for Barracuda, “KOWB News/Sports/Talk” ID. A poor signal was noted with no sign of CFRW. (JJR-MI)
- 1320 WCVG **KY**, Covington – 8/29 2251 noted with Christian talk, Urban Gospel music, “A Great Lakes Station, WCVG Covington/Cincinnati” legal ID at 2258 into more Urban Gospel music. Noted in a mix including probable WATR, WJAS, WOBL and an unidentified Christian station. (PS-ON)
- 1350 WEZS **NH**, Laconia – 8/22 2249 noted with Dennis Prager, “WEZS” ID at 2252, promo for *Savage Nation* with Michael Savage, “1350 WEZS” ID at 2254, into spot cluster including Citizens’ Disability, Obesity Action Coalition and Visiting Angels, “WEZS Laconia” legal ID at 2300 into Fox News Radio. A fair to very poor signal mixing with an unidentified talk station; no sign of WARF or WOYK at this time. (PS-ON)
- 1360 WWOW **OH**, Conneaut – 8/29 2029 noted with “Freebird” by Lynyrd Skynyrd, “1360 Wow” jingle, “No one plays more music than WWOW” mention at 2030, Riverside ad, CNN News, “on WWOW” mention. A poor to very poor signal noted in station mix. (PS-ON)
- 1380 WMJR **KY**, Nicholasville – 9/2 2249 noted with Catholic talk, “Relevant Radio” mention at 2252 before fading out. This station recently adopted the Relevant Radio programming, according to both the Relevant Radio and Real Life Radio Web sites. A very poor signal under WKDM with no sign of WABH. (PS-ON)
- 1390 WPLM **MA**, Plymouth – 8/27 2349 noted with an Adult Contemporary format, including “Island Girl” by Sir Elton John, “Go Home” by Stevie Wonder, “Invisible Touch” by Genesis, ad for Atlantic Subaru in Bourne, promo for the Boston Red Sox, ads for the Unlikely Story bookstore and Home Depot, “1390 WPLM, WPLM 99.1 Plymouth, Massachusetts” legal ID at 2400 into more AC, including “Tainted Love” by Soft Cell and “Carefree Highway” by Gordon Lightfoot. A poor to very poor signal was noted, mixing with WNIO, a possible WFBL and an unidentified rock station. (PS-ON)
- WRIV **NY**, Riverhead – 9/5 2129 noted with Adult Standards format including “The Nearness of You” by Norah Jones and “On The Sunny Side of the Street” by The Count Basie Orchestra, “You’re Listening to The Best Music Ever Made; Hometown (Radio) WRIV” ID at 2133 before fading out. A very poor signal was noted; caught under WRSC and WPLM. (PS-ON)
- 1430 KEZW **CO**, Aurora – 8/30 0714 noted with a promo for the *Doo-Wop Oldies Show*, tagged Cruisin’ 1430-dot-com. A poor signal was noted. (JJR-MI)
- 1450 WPGG **NJ**, Atlantic City – 9/4 0000 noted with mentions of Fox, clear “1450 WPGG” ID at 0002 in Fox News Radio. A very poor signal was noted in a mix of stations. (PS-ON)
- 1460 KLTC **ND**, Dickinson – 8/30 0713 noted with call letters between Classic Country selections. A poor signal was noted with no sign of KXNO. (JJR-MI)
- 1510 WWSM **PA**, Annville/Cleona – 9/3 2303 noted on after sunset with a Classic Country format, “Covering... You’re listening to 1510 WWSM Annville/Cleona” ID at 2322 into more Classic Country. A fair at times to very poor signal, mixing with WLAC. (PS-ON)
- 1550 WEVR **WI**, River Falls – 8/31 0810 noted with local news stories. A poor signal was noted in a fade-up, with no sign of WHIT. (JJR-MI)
- 1570 KAKK **MN**, Walker – 8/30 0808 noted with CBS News and an ad for Purzell Furniture Gallery, five miles south of Walker. A poor signal was noted. (JJR-MI)

UNIDENTIFIED

- 990 8/28 2023 noted with “This is Your Flagship Station for UC Sports at Sports Radio WONO” mention by a male announcer. The signal was noted mixing with WNRV, WEEB, WLLI, WNML and an unidentified Spanish language station. (KK-VA)

EDITOR’S NOTES

Thanks to Kraig, John and Paul for their contributions! Great DX logged this early in the season! 73 and good DX from NØUIH



Next deadline Monday 9/26 1201 PM PLT. All times UTC/GMT.

TRANS-PACIFIC DX ROUNDUP

- 529 **ALASKA**, SQM, Level Island. 9/11. AERO forecasts boxing in the TIS jumble on 530 while a series of semi-audibles took flight on 531. This is one, if not the only, frequency on the AM dial that has a standard channel boxed in on both sides. (RCN-BC)
- 549 **UnID**. Traces of man talking at 1227 9/6. (NP-AB)
- 558 **REP KOREA**, HLQH, Yeong-il, KBS2. More frequently towards LSR and often parallel sounding to the usually louder 603 – on/about 1315 9/11. At times crystal clear with Korean romantic pop. (RCN-BC)
- 567 **JAPAN**, JOIK, Sapporo, NHK1. 1258 9/4 weak signal w/man in Japanese. (DV-WA)
+1314 9/10 very weak signal with Japanese talk. (DV-WA)
+1314 9/9 weak signal w/man in Japanese. (DV-WA)
+Was the boss here the entire session 9/11. Likely one of the top 5 this morning - never inaudible. And if this was a nod to Paul in Galena, Alaska, this would be one of the most likely Japanese stations you are going to hear – a top tier performer. (RCN-BC)
UnID. Asian 1253 9/2. (SR-AZ)
- 576 **UnID**. Bits of instrumental music at 1208 9/4. (NP-AB)
+Traces of talk by a man at 1214 9/6. (NP-AB)
+1315 9/10 music followed by male speaker. DU English? Weak signal. (DV-WA)
+9/11 From time to time burbles of intelligence but nothing that stood out and nothing that got stronger as LSR approached. (RCN-BC)
- 594 **AUSTRALIA**, 3WV, Horsham. Time pips, then very weak ABC news fanfare at 1200 9/4. (NP-AB)
- JAPAN**, JOAK, Tokyo, NHK1. 1253 8/31 very weak signal. Man in Japanese. (DV-WA)
+1316 9/1 weak signal with man in Japanese. (DV-WA)
+1301 9/2 very weak signal w/man in Japanese. (DV-WA)
+1322 9/3 fair signal with men in Japanese. (DV-WA)
+1306 9/4 good signal w/man in Japanese. (DV-WA)
+1329 9/5 very weak signal with Japanese. (DV-WA)
+Caught a few words in Japanese by woman at 1229 9/6. (NP-AB)
+1307 9/7 good signal with man in Japanese. (DV-WA)
+Very good level Japanese female and male speech at 1328 9/8 <https://app.box.com/s/nzdbuxi3bai4ounvbhmf2mbdyiled49p>. (GDB-WA)
+1315 9/9 fair signal with man/woman in Japanese. (DV-WA)
+9/11 unflinching during entire session (Another top 5 most heard Japanese stations) occasionally with something else underneath it. (RCN-BC)
+Weak talk 1309 9/11. (bp-WA)
+1312 9/12 weak signal w/woman in Japanese. (DV-WA)
UnID. Asian 1238 9/2. (SR-AZ)
+Asian 1223 9/4. (SR-AZ)
+1220 9/8 Asian. (SR-AZ)
- 603 **REP KOREA**, HLSA, Seoul, KBS2. 1320 9/1 poor audio with male speaker. (DV-WA)
+Radio Happy FM – 9/11 now among the most heard South Korean that is not "super-powered" with yearning Korean vocals and the occasionally chirpy conversation – here almost entire session. (RCN-BC)
- 612 **AUSTRALIA**, 4QR, Brisbane. Talk by a woman at 1220 9/3. (NP-AB)
+Talk by a man at 1157 9/4, //774, Better, with talk by woman at 1221. (NP-AB)
+Weak, with man talking at 1223 9/6. (NP-AB)
+Rose to armchair heights from 1315 9/11 on through to around 10 minutes pre-LSR (around 1340) with typical docu-commentary style news. For hunters of their first Aussie, this could well be it. (RCN-BC)
- 621 **DPR KOREA**, Chongjin, Pyongyang Bangsong. This brute located in the "somewhat unstable" nation of North Korea is always hammering at 620 and occasionally reveals typical Korean ranting in a style only heard within the confines of this basket state. 1250-1310 9/11. (RCN-BC)
- 639 **UnIDs**. 9/11 in an often unholy jumble of stations some Chinese occasionally rises here – but usually saves itself for sweeter times further into the season. (RCN-BC)
- 657 **DPR KOREA**, Pyongyang, Pyongyang BS. 1317 9/9 briefly with weak signal w/male speaker. (DV-WA)
+1324 9/10 weak signal with military music. (DV-WA)
+Korean male 9/10 shouter reaching a fair level, introducing typical martial music <https://app.box.com/s/wp1eabvqtayio52fbo4iu00p3unw6bv2>. (GDB-WA)
+At an alleged 1500KW (I imagine less than half of that...) this 2nd day in a KW appearance with its stock-in-trade sabre rattling harangues – occasionally 1250-1310 9/11. (RCN-BC)
+Korean male shouter at 1315 9/11; somewhat stronger than yesterday (unfortunately) <https://app.box.com/s/dvjwww49xx36frnqm201xdp0si7lmkkj>. (GDB-WA)
UnID. Asian 1223 9/4. (SR-AZ)
- 666 **JAPAN**, JOBK, Osaka, NHK1. 110 9/4 fair signal w/man in Japanese. (DV-WA)
+1331 9/5 weak signal with man in Japanese. (DV-WA)
+1311 9/7 poor with a lot of splatter. (DV-WA)
+1320 9/9 poor signal with bits of audio. (DV-WA)
+At times in Japanese talk between 1320 and 1325 9/11 when some second tiers started appearing (this is not really one of those at 100kw) but if this one is coming in nicely, lesser powered ones may follow. (RCN-BC)
- 675 **VIETNAM**, Đài Tiếng nói Việt Nam (VOV1), My Van. Frequently between 1250 and 1310 9/11 at numerous passes – often at good levels but suffering from lower than average modulation. Likely the number one picture for those hunting for Vietnam. (RCN-BC)
UnID. 1323 9/1 threshold audio. (DV-WA)
- 693 **JAPAN**, JOAB, Tokyo, NHK2. 1318 8/31 weak signal with man in Japanese. (DV-WA)
+1328 9/3 fair signal briefly w/man in Japanese. (DV-WA)
+1312 9/4 fair signal w/man in Japanese. (DV-WA)
+1313 9/7 weak signal with woman in Japanese. (DV-WA)
+1322 9/9 weak signal //JOUB 774. (DV-WA)
+Just traces of audio, but the NHK time pips at 1200 9/10 were clear. (NP-AB)
+1327 9/10 weak signal w/man in Japanese. (DV-WA)
+Japanese talk 1316 9/11. (bp-WA)
+Very poor/poor 1246 9/12. (SR-AZ)
+1333 9/12 weak signal w/woman in Japanese. (DV-WA)
- 702 **AUSTRALIA**, 2BL, Sydney. Traces of talk by a man at 1215 9/3 through splatter from Calgary on 700. (NP-AB)
+Tough under CJLI splatter, but noted woman speaking at 1228 9/4. (NP-AB)
+1314 9/4 weak signal tentative 2BL w/man in DU English. (DV-WA)
+Heard traces of talk by a man under CJLI splatter at 1214 9/8. (NP-AB)
+9/11 likely the stuffy sounding Aussie man chatting – getting knocked about by CBC 690. I often switch in the Ratzlaff/Misek/Lankford Phaser and knock down 690 so I can catch Japan on 693 and affect better listening on 702 – but not this morning. (RCN-BC)
UnID. A strong carrier was heard from 1156 9/2 until local sunrise at 1204. No audio heard to properly ID source but assume it was 2BL, Sydney NSW. The signal faded away shortly after sun-up. No signal on 774 (3LO). Receiver: C Crane Skywave with 8" FSL. (RA-OK)

- 729 **AUSTRALIA**, 5RN, Adelaide. Presumed the one with end of musical selection, then talk by woman at 1159 9/4. (NP-AB)
- 738 **FRENCH POLYNESIA**, Papeete, Radio Première Polynésie. 1326 9/1 presuming the station with poor audio. (DV-WA)
 +1305 9/2 female speaker, very weak, heavy splatter. Weak at 1322 instrumental music. (DV-WA)
 +1344 9/4, weak signal finally heard after sunrise with music. (DV-WA)
 +1336 9/12 assuming w/weak signal. Woman speaker. (DV-WA)
- p TAIWAN**, Baisha, BEL2. Female vocal music at fair level (matching BEL2's format) at 1326 9/10
<https://app.box.com/s/hdmk5adwy8g4mal73d331hcv4r2pa3li>. (GDB-WA)
+p Instrumental music at fair level at 1326 9/11 (matching BEL2's format); best signal of the new season
<https://app.box.com/s/u5xu12ndwl9j42z163lrnie8inydblte>. (GDB-WA)
 +9/11 often at pretty good levels but getting showered with so many sparks from 730 Vancouver to render this channel useless – again, a PHASER null would open it up – but often nulling the Northerly pests also nulls the DX. (RCN-BC)
- 747 **JAPAN**, JOIB, Sapporo. NHK2. 1310 9/2 woman in Japanese, heavy domestic splatter. (DV-WA)
 +Time pips at 1300 9/6. (bp-WA)
+p Heard several times between 1201 9/9 and 1308, poor/weak on peaks. (SR-AZ)
 +1311 9/9 fair signal with heavy splatter. (DV-WA)
 +9/11 it owns this channel and although often harassed by 750 Portland, this is likely the #3 most heard Japanese medium wave signal next to 774 and 828 – always in Japanese often with English or Chinese lessons. Reliable as gravity and audible all morning. (RCN-BC)
 +Time pips 1200 9/11, then bits of talk //774. (bp-WA)
 +Very poor/poor 1236 9/12. (SR-AZ)
 +1258 9/12 weak/splatter. Woman in Japanese. (DV-WA)
UnID. Asian 1225 9/4. (SR-AZ)
 +1209 9/8 Asian. (SR-AZ)
- 756 **UnID**. traces of audio at 1209 9/8 and at 1229. (NP-AB)
+AUSTRALIA or **NEW ZEALAND**. Well heard at 1317 9/11 with stodgy low modulated English. (RCN-BC)
- 765t **JAPAN**, various. Could have been Japanese but also could have been something else. Quite good at 1314 9/11 and always a good carrier w/near audio. A channel to watch as the season progresses. (RCN-BC)
UnID. 1341 9/12 very weak with music. (DV-WA)
- 774 **AUSTRALIA**, 3LO, Melbourne. Music, man speaking at 1208 9/3. (NP-AB)
 +Man talking at 1157 9/4. (NP-AB)
 +Noted with music at 1157 9/5 prior to news. (NP-AB)
 +Very weak, with man speaking at 1223 9/6. (NP-AB)
 +Time pips and ABC news fanfare at 1200 9/8. (NP-AB)
 +Reached audio in the 1221-1223 9/9 time frame. (NP-AB)
 +Talk by Aussie-accented man during sports commentary at 1227 9/10. (NP-AB)
JAPAN, JOUB, Akita, NHK2. 1301 8/31 good signal with man/woman in Japanese. (DV-WA)
 +1311 9/2 man/women speakers. Fair signal. (DV-WA)
 +1317 9/3 fair signal, English lessons man Japanese, woman English. (DV-WA)
 +1321 9/4 fair signal w/man in Japanese. (DV-WA)
 +1300 9/5 fair signal with pips and tone. (DV-WA)
 +Japanese woman fair in KTTH splatter 1306 9/6. (bp-WA)
 +Heard at 1246 9/7 with man and woman in English good signal. (BB-AZ)
 +1323 9/7 fair signal with man in Japanese. (DV-WA)
 +With English lessons, peaking at medium level, easy copy for 5-10 seconds, 1208-1308 9/9. Talking about a visit to the hospital "is there anyone who can look after him?", "Have you ever been to the hospital?" (SR-AZ)
 +1302-1308 9/9 fair signal with woman in Japanese (DV-WA)
 +NHK pips a 1200 9/10. Much better by 1220 with talk by man, but vanished under Australia a bit later. (NP-AB)
 +With English lessons, weak on peaks 1246 9/10. (SR-AZ)
 +1329 9/10 good signal with man in Japanese. (DV-WA)
 +*Top Performer* at 500kw, 9/11 this monster is never inaudible on the flimsiest of mornings – often S9 armchair pushing whatever is on 770 casually aside – the top Japanese station and easiest to hear inland. All morning. (RCN-BC)
 +Man and woman in Japanese 1201 9/11. (bp-WA)
 +Poor 1236 9/12. (SR-AZ)
 +1302 9/12 good w/woman in Japanese. (DV-WA)
 +Heard at 1303 9/12 with talk. (BB-AZ)
UnID. Asian 1257 9/2. (SR-AZ)
 +Asian 1225 9/4. (SR-AZ)
 +1210 9/8 Asian, best of the bunch with English lessons, weak on peaks. "My brother speaks Spanish" "My mother speaks French". (SR-AZ)
- 792 **AUSTRALIA**, 4RN, Brisbane, ABC National. 1259-1304 9/3 steady weak signal with male speaker w/ABC news at 1300. 1319 with jazz music and fair signal. (DV-WA)
 +ABC news by woman at 1202 9/4. (NP-AB)
 +1323 9/4 weak signal with music. (DV-WA)
 +Traces of talk at 1222 9/5. (NP-AB)
 +Talk by man at 1212 9/6. In/out until 1230. (NP-AB)
 +Had a few minutes of audio around 1234 9/7. (NP-AB)
 +Time pips and ABC news fanfare at 1200 9/8. (NP-AB)
 +t 9/11 most of the session this signal is struggling to get its head above the water – and when 612 and 1116 start to shine, so does it. One of the more common Aussies – and poor/fair audio most of the session. (RCN-BC)
- 819 **DPR KOREA**, Pyongyang, KCBS. 9/11 little audio but worrying 820 constantly with a solid growl. Gets louder as the season progresses. (RCN-BC)
- 828 **AUSTRALIA**, 3GI, Sale. Faint traces of talk at 1211 9/3. (NP-AB)
 +Faint traces of talk at 1211 9/4. (NP-AB)
 +Time pips and ABC news fanfare at 1200 9/5. (NP-AB)
JAPAN, JOBB, Osaka, NHK2. 1322 8/31 poor signal with man talking. (DV-WA)
 +1328 9/1 very weak with man in Japanese. (DV-WA)
 +1312 9/2 //JOUB 774 with fair signal. (DV-WA)
 +1333 9/3 weak signal //774. (DV-WA)
 +1325 9/4 just above threshold signal. (DV-WA)
 +1303 9/5 fair signal with woman in Japanese. (DV-WA)
 +1325 9/7 fair signal with man in Japanese. (DV-WA)
 +Very poor 1208 9/12. (SR-AZ)
 +1318 9/12 fair w/man in Japanese. (DV-WA)
UnID. 1202 9/8 Asian. (SR-AZ)
 +Rather unusually, the strongest of the NHKs with time pips at 1200 9/10. (NP-AB)
 +9/11 at 300kw this is also one of the "always there" on an average morning – no exception today. One of the 1st TP's I heard on the DX150B in 1975 and still a winner on this channel. This is the 2nd most likely Japanese station to be heard well inland. (RCN-BC)
- 837 **UnID**. Very weak 9/10, with a woman speaking (possibly a phone caller) 4RK? (NP-AB)
- 846 **UnID**. 9/11 One of the "jumble channels" just burbles, gurgles and growls this AM – This is something of an NHK and Chinese graveyard channels with dozens of possibilities... but just growls today. (RCN-BC)

- 855 **DPR KOREA**, Sangwon, Pyongyang Bangsong. 9/11 usually home to a growling and often distorted government station – but today just growls and burbles. (RCN-BC)
UnID. Seemed to be ABC news by woman at 1203 9/10, but not 100% certain. (NP-AB)
- 864 **UnID**. On good mornings this is a great place to park for lower powered NHK stations or KBS – this morning was more on the NHK side of the house with a Japanese woman chatting at 1326 9/11 – pretty much the peak moment for LSR enhancement. (RCN-BC)
- 873 **JAPAN**, JOGB, Kumamoto, NHK2. 9/11 most notable by its absence – keep in mind I DX wholly in real time – No SDR in use and no playback and apart from having the NHP Radar running at all times, this is live and seat of your pants. Good carriers when passing by no audio to speak of. (RCN-BC)
- 891 **AUSTRALIA**, 5AN, Adelaide. The best signal of the morning, with vocal by a woman at 1217 9/3, and noted ABC news fanfare at 1230. (NP-AB)
+1336 9/3 weak signal. Woman/man talking in DU English. Music program similar to 4RN 792. (DV-WA)
+Talk by man at 1213 9/4, and noted ABC news fanfare at 1230. (NP-AB)
+Heard ABC news fanfare at 1230 9/5, but very little else. (NP-AB)
+Talk by man at 1249 9/8. (NP-AB)
† **THAILAND**. Likely the SEA Lang at 1309 9/11 – In Hawaii this is, by and far beyond, one of the loudest signals on the dial – not so much here slightly inland. (RCN-BC)
UnID. Sounded Australian, but no pips at 1230 9/10, with man speaking just after, so possibly the TAB station. (NP-AB)
- 936 **AUSTRALIA**, 4PB, Brisbane. Most likely the one with traces of talk by a man at 1218 9/4. (NP-AB)
- 954 **JAPAN**, JOKR, Tokyo, TBS. Almost always JOKR and today no exception 9/11 – higher energy music and talk – and you can tell by the fact that the female on-air personalities sound 16 years old and giggle a lot. (RCN-BC)
- 963 **CHINA**, Huaduan, CRI. 9/11 if you hope to hear Russian on medium wave these days, this will be one of the first – and ironically, it is from China. Come to think of it, Russia on medium-wave is a sad shadow of its former self. As little as 5-7 years ago there were a dozen high powered Russian long wave stations in Siberia that would put bone crushing signals into the North West – truly staggering levels of signals. 279 being one good example. The electric bills got too high. They turned them off. Anyway – at great levels at 1327 9/11 moments before the band started its sunrise death pangs. (RCN-BC)
- 972 **REP KOREA**, HLCA, Dangjin. 1306 9/5 poor signal with music and heavy splatter. (DV-WA)
+1227 9/7 weak signal with heavy splatter. (DV-WA)
+Time pips 1300 9/11. Korean talk 1318. (bp-WA)
+Very poor/poor 1204 9/12. (SR-AZ)
+1306 9/12 weak. Man/woman in Korean. (DV-WA)
UnID. Asian 1259 9/2. (SR-AZ)
+Very poor, occasional words 1256 9/9. (SR-AZ)
+Came up to good level with talk by man in Korean around 1225 9/10. (NP-AB)
+1334 9/10 weak signal with male speaker. (DV-WA)
+9/11 at 1500KW (max) this is easily the first South Korean station you will here. In for the entire morning session with chorale/christian sounding music and talk. (RCN-BC)
- 1017 **JAPAN**, JOLB, Fukuoka, NHK2. What I consider one of the more dominant and easily received Tier-2 NHK2 stations. At a decent level around 1323 9/11. (RCN-BC)
- 1035 **NEW ZEALAND**, Wellington, Newstalk ZB. Talk by a man. Seemed English, so presumed New Zealand 9/4. (NP-AB)
- 1044 **CHINA**, Changzhou, CRI. CRI's Japanese service lady at a fair level at 1317 9/10; first appearance of the new season
<https://app.box.com/s/h76zero6gfowcx26kgb0acd5we4k4ar>. (GDB-WA)
- 1053 **JAPAN**, JOAR, Nagoya. Presumed the one with Japanese intonation in a strong mix with the Korean jammer at 1303 9/8; somewhat unusual here
<https://app.box.com/s/pwud5bd8o2wi2geu6566hfdyyc4xk3zz>. (GDB-WA)
REP KOREA, jammer. 1329 9/1 alone on channel with fair signal. (DV-WA)
+1315 9/2 weak signal. (DV-WA)
+1308 9/5 weak signal. (DV-WA)
+Good jam session at 1310 9/7; best Asian signal of the morning <https://app.box.com/s/sinj2tv18db0a51rcqaf46k0k5718tj0>. (GDB-WA)
+1329 9/7 with fair signal alone on channel. (DV-WA)
+1325 9/9 alone on channel with fair signal. (DV-WA)
+1336 9/10 fair signal. (DV-WA)
+9/11 built for one purpose – to play something that "sounds" like "Ditty ditty ditty ditty..." over and over again with no variation – and much to my surprise, it sometimes fades revealing either Japan underneath or the DPRK station it's trying to flatten. In this morning for the entire shift – but with Japanese coming to the surface every 5-10 minutes or so. (RCN-BC)
+1258 9/11. (bp-WA)
+1309 9/12 fair signal. (DV-WA)
- 1062 **CHINA/REP KOREA?** 1320 9/12 guessing these two. Man in Asian language. Steady weak signal for a few minutes. (DV-WA)
- 1107 **UnID**. Traces of audio at 1219 9/4. (NP-AB)
- 1116 **AUSTRALIA**, 4BC, Brisbane. Bits of talk noted at 1217 9/3. (NP-AB)
+Program promo mentioning "Brisbane's 4BC" at 1218 9/4. (NP-AB)
+In a class by itself this morning 9/6. Faded up/down during the 1200-1230 session, but was up to good level with 100% copy for several minutes at a time. (NP-AB)
+Had a few minutes of audio around 1234 9/7. (NP-AB)
+Usual talk programming at 1214 9/8. (NP-AB)
+Reached audio in the 1221-1223 9/9 time frame. (NP-AB)
+Sports commentary, Melbourne vs North Queensland at 1214 9/10. (NP-AB)
- 1134 **JAPAN**, JOQR, Tokyo, NCB. 1311 8/31 fair with man in Japanese. (DV-WA)
+Energetic Japanese conversation at a temporary good level through Vancouver splatter at 1315 9/7
<https://app.box.com/s/c7g5uz8rw8a08v361ghmajq2wyo377f2>. (GDB-WA)
+1330 9/7 fair signal with fast talking man in Japanese. (DV-WA)
+1328 9/12 weak signal w/man in Japanese. (DV-WA)
- 1143† **CHINA**. With Chinese opera – 9/11 as opposed to more the poppy stuff that Taiwan Fisheries plays – this is a classic battle royale channel. Either one can appear. (RCN-BC)
UnID. Asian 1230 9/4. (SR-AZ)
+1310 9/5 threshold audio with talk. (DV-WA)
- 1179 **UnID**. 1253 9/11 with what sounded like Chinese opera. (RCN-BC)
- 1206 **UnID**. Weak talk 1309 9/11. (bp-WA)
- 1242 **JAPAN**, JOLF, Tokyo. 1335 9/7 very weak in Japanese. (DV-WA)
+One of the top ten Japanese stations to usually appear and top 5 among the "commercial" stations. 12:51 9/11. (RCN-BC)
- 1287 **JAPAN**, JOHR, Sapporo, HBC. 1313 9/5 weak signal w/woman in Japanese. (DV-WA)
+9/11 arguably the best sounding Tier 1 commercial stations in Japan – often at absurdly good levels on the W/NW Flag definitely in the category of "always there when the band is open..." and often among the last to leave when sunrise sets in. (RCN-BC)
UnID. Female talk 1309 9/11. (bp-WA)
- 1323 **UnID**. Talk 1247 9/11, good carrier but much 1320 splatter. (bp-WA)
- 1503 **UnID**. Asian 1302 9/2. (SR-AZ)
- 1548 **AUSTRALIA**, 4QD, Emerald. ABC news fanfare at 1200 9/4, then news by woman. (NP-AB)
+ABC news fanfare at 1200 9/8. (NP-AB)
- 1557 **UnID**. Asian 1242 9/2. (SR-AZ)

- 1566 **REP KOREA**, HLAZ, Jeju, FEBC. 1314 8/31 good/fair signal with music. (DV-WA)
 +1331 9/1 very weak signal with man speaker. (DV-WA)
 +Poor/weak 1303 9/2. (SR-AZ)
 +1232 9/4. (SR-AZ)
 +Heard at 1248 9/5 with talk good signal. (BB-AZ)
 +1322 9/5 good signal with slow talking woman in Japanese. (DV-WA)
 +In audio for a couple of minutes around 1230 9/6 with talk, then Christian music. (NP-AB)
 +Japanese talk and choir fair 1246 9/6. (bp-WA)
 +Heard at 1249 9/7 poor signal. (BB-AZ)
 +"In Christ the Solid Rock I Stand" song at a very good level at 1326 9/8 (mentioned by Steve in his Arizona report)
<https://app.box.com/s/mx1mi6i0m1k23hz2i2s45qf5wxhl3rrc>. (GDB-WA)
 +1326 9/8. Female vocal, hymn "On Christ the Solid Rock", poor/weak. (SR-AZ)
 +Heard at 1255 9/9 with talk. (BB-AZ)
 +Poor on peaks 1247-1310 9/9. (SR-AZ)
 +1329 9/9 weak with man speaker. (DV-WA)
 +Nice signal this morning, with Japanese talk and FEBC ID at 1230 9/10. (NP-AB)
 +Poor/weak on peaks 1249 9/10, barely heard 1323. (SR-AZ)
 +1322 9/10 weak signal with woman talking. (DV-WA)
 +9/11 likely the consistently loudest Asian signal on the band – with a couple of different antenna patterns – and at 250kw packs a wallop and a great "split" for good penetration into the North American continent. When in Hawaii, this appears early and stays late – here on the west coast, it'll hang around regardless of the sun's position in the sky. (RCN-BC)
 +Church service in Japanese 1240 9/11. (bp-WA)
 +Peaking at weak 1241-1330 9/12. (SR-AZ)
 +1248 9/12 fair signal. Woman in Japanese. (DV-WA)
 +Heard at 1307 9/12 with talk. (BB-AZ)
- 1575 **THAILAND**, Ban Phachi, VoA. 1307-1312 9/3 fair to good signal with man/woman in Asian language. (DV-WA)
 +First noted with talk by woman at 1224 9/5, clear VOA English ID at 1230. (NP-AB)
 +1337 9/7 weak signal with male speaker. (DV-WA)
 +9/11 at a million watts, not quite the thumper that you would expect. Almost always second fiddle to 1566 and always with Lao and SEA languages and familiar VOA interval signals on the hour. (RCN-BC)
 +1311 9/12 very weak with talk. (DV-WA)
UnID. Asian 1244 9/2. (SR-AZ)
 +Weak talk 1255 and 1301 9/11. (bp-WA)
- 1593t **CHINA**, Changzhou, CNR1. Likely the chorale music at 1332 9/11 as the band began its shut down. This is a good window for Japan quite often later in the season. (RCN-BC)
- 1611 **UnID**. Non-English talk 1300 9/2. (SR-AZ)
 1629 **UnID**. Very faint, with talk by woman at 1225 9/5. (NP-AB)

THANKS TO THESE REPORTERS

- BB-AZ **BILL BLOCK**, Prescott Valley AZ
 Drake R8
- bp-WA **BRUCE PORTZER**, Seattle WA
 Elad FDM-S2, K9AY antenna
- DV-WA **DENNIS VROOM**, Kalama WA
 JRC NRD 545 + Drake R8B, 1) NW ewe, 2) SW ewe, 3) Long wire, 4) Random wire, 5) Bog NW 280'
- GDB-WA **GARY DeBOCK**, Puyallup WA
 7.5" loopstick C.Crane Skywave + 15" FSL antenna, Stand-alone 3" FSL Tecsun PL-380
- NP-AB **NIGEL PIMBLETT**, Dunmore AB
 Perseus SDR with a Wellbrook Phased Array
- RCN-BC **R COLIN NEWELL**, Victoria BC
 Drake R8/ACR 7030+, W/NW Flag with FLG100 Wellbrook Head and "Newell made" Remote VACTROL and ALA100 (N-S)
- RA-OK **RICHARD ALLEN**, near Perry OK
 Tecsun PL-606 with 8-inch FSL
- SR-AZ **STEVE RATZLAFF**, near Sahuarita AZ
 R75; 140' west DKAZ + FLG-100



DX WORLDWIDE – EAST – Brandon Jordan – PO Box 338 – Rossville TN 38066
E-mail: bdjorda@gmail.com **all times UTC**

Deadline – Sunday Midnight Central Time

*** PAN-AMERICAN DX ***

- 540 **MÉXICO** XETX, Nuevo Casas Grandes, Chih. SEP 8 0545 – ID for BM Radio, Chihuahua, La Ranchera de Paquimé, and FM I thought as 99.5, but listed as 90.5. This Nuevo Casas Grandes station, XETX, continues to put out much more signal than you would expect from listed 250 watts night. [Hauser-OK]
- 660 **MÉXICO** XEEY, Aguascalientes, Agua. SEP 8 0542 – ID mentioning 102.9, first noted with KSKY nulled, leaving a slow SAH, but it's really from the south, XEEY, 50/10 kW. [Hauser-OK]
- 700 **MÉXICO** XEDKR, Guadalajara, Jal. SEP 8 1153 – Radio Red ID, presumed XEDKR Guadalajara, which relays XERED 1110 México DF; thought I heard an FM 92.1 mentioned, but not listed as such in Jalisco, and in the DF it's on 88.1. 700 listed as 10000/150 watts. [Hauser-OK]
- 720 **MÉXICO** XEJCC, Ciudad Juárez, Chih. SEP 5 1202 – Chihuahua state song, 1204 inspirational recitation about amor and "un nuevo día". It's surely XEJCC, listed by IRCA a 25 kW daytimer; WRTH 2016 says only 1 kW. A canned ID appears at 1205, but fading and I can't copy to confirm what slogan they are currently using; 1206, 6:06 timecheck. [Hauser-OK]
- 820 **MÉXICO** XEABCA, Mexicali, BCN. SEP 2 1155 – Spanish romantic music pauses for a woman non-ID, "Canal 800-20" (meaning "ochocientos veinte" not just ocho-veinte). Good with WBAP nulled making slow SAH of 32/minute = 0.533 Hz; 1159 segué instead of any ID or anthem; strong enough to get a good DF on it as slightly CCW of west-east, which fits for Mexicali BCN; and finally at 1202 a more complete non-ID, "Canal 800-20, ABC Radio", more songs. Gone by 1220. So it really is XEABCA as suspected, obscuring its grandiose 6-letter legal call. Getting a SRS boost, LSR here being 1204, but still hard to believe it's only 500 watts night as in IRCA, Cantú and WRTH, or even 3500 watts day from a kilometre away, overcoming 50,000 watt WBAP lately; seemingly a boost from previous nonentity. [Hauser-OK]
- 940 **MÉXICO** XEQ, México DF. SEP 3 0306 – good signal in Spanish on N/S antenna, promo for Centro Educativo, "el espiritualista mejor" with call-in number repeated several times, so I can be sure of 70 rather than 60: 55-70-10-07-47, "descubriendo lo paranormal", and plugging a 9 am sábado event on some Calzada costing 99 pesos. 0309, starts taking call-ins. Has to be XEQ, 50/50 kW. This nonsense is not very good for a station now branding itself a "Ke Buena". It seems that XEQ-940 and XEX-730 are the only major DF stations with reliable reception up here anymore: certainly not XEW-900 nor XEB-1220. [Hauser-OK]

CONTRIBUTOR

[Hauser-OK]

Glenn Hauser, Enid OK, USA
 DX-398 with internal antenna only or PL-880; NRD-545 with ALA-330S inside E-W or inside random wire N-S; ICR-75 with E-W longwire;
 FRG-7 with NW-SE short wire

73, Brandon



TROPICAL BAND DX (1710-5100 kHz) – Brandon Jordan – PO Box 338 – Rossville TN 38066
E-mail: bdjorda@gmail.com
all times UTC

Deadline – Sunday Midnight Central Time

- 2850 **NORTH KOREA** KCBS, Pyongyang. AUG 30 1215 – Very emotional sounding woman in Korean. Fair reception. [Barton-AZ]
 3925 **JAPAN** Radio Nikkei 1, Chiba-Nagara. AUG 27 1120 – Trance music, non-stop. Fair/good, with very good //6055, 9595. [Barton-AZ]
 +AUG 30 0925 – American jazz program. Very good, //6055 fair/good, 9595 very good. [Barton-AZ]
 4765 **CUBA** Radio Progreso, AUG 27 0330. Music of – Sade -?, woman presenter. Very good signal. [Barton-AZ]

CONTRIBUTOR

[Barton-AZ] **Rick Barton**, El Mirage AZ
 Drake R8 and Grundig Satellit 750, slinky, random wire
 73, Brandon



DX WORLDWIDE – II – Bruce Portzer – 6546 19th Ave NE – Seattle WA 98115
E-mail: bportzer@comcast.net
All times UTC unless noted otherwise

ASIA AND PACIFIC

AUSTRALIA: Unique Radio (occasionally heard on shortwave 3210) has gained approval for 1647 from Tamworth NSW with a maximum of 400 watts vertically. An antenna has been ordered from the United States and operator Tim Gaynor is still deliberating on the transmitter. (Glenn Hauser's DXLD Yahoo Group via ADXN Aug16)

INDIA: The current schedule of AIR Chinsurah is:

- 594 0130-0230 Nepali, 0230-0300 News from Delhi, 0700-0800 Nepali.
 1330-1430 Nepali, 1515-1600 News from Delhi.
 1134 1000-1100 GOS-2, 1115-1215 Tamil, 1215-1315 Burmese

DRM is now available with Delhi Rainbow channel at all the transmissions on 604 during analogue broadcast times on 594 and on 1144 during 1134 broadcast times. May vary the timings soon till the run up to inauguration date of new Bangla Service. AWR program was heard yesterday (10 July 2016) in DRM on 1144 at 1015-1030. AWR program in Hindi is scheduled on Fri/Sat/Sun at 1015-1030 on AIR FM Rainbow Network Delhi.

(Alok Das Gupta, Kolkata, via Jose Jacob, dx_india (11/7-2016) via Dr. Hansjoerg Biener mediumwave.info12/7-2016)

The launch of All India Radio's new channel "Akashvani Maitree", which was scheduled in Kolkata on Tuesday (28 June), has been postponed due to "unforeseen reasons," Prasar Bharati officials said today. The channel aims at providing a common platform for participatory content creation for listeners in India and Bangladesh. New dates for the launch would be announced later, the officials said. The Bengali language service channel was to be launched by President Pranab Mukherjee at a function in Kolkata on June 28.

(http://www.business-standard.com/article/pti-stories/launch-of-air-channel-postponed-116062500828_1.html via Sudipta Ghosh, DX India 25 June 2016)

INDONESIA: Radio Freq (AM) Jakarta, Indonesia (21 Juni 2016)

- 630 Radio Samhan (PT Radio Sabana Samhan)
 693 Radio Muara (PT Radio Musik Asik Nusantara)
 792 Radio Assyafiyah (Perkumpulan Radio Siaran As Syafi'iyah)
 999 Radio Republik Indonesia Prog 3
 1026 Swara Khatulistiwa (PT Radio Suara Multazam)
 1062 C Radio (PT Radio Pusat Siaran Cendrawasih)
 1080 Radio Jakarta Islamic Center (PT Radio Suara Mega Asri Indonesia)
 1134 Radio Safari (PT Radio Jawa Jakarta)
 1332 Radio Republik Indonesia Prog 4. (Joe Alexanders, WRTH fb group (21/6-2016))

MARSHALL ISLANDS: V7AB 1098 noted with strong signals since 23 August, indicating inauguration of a new 25kw Nautel transmitter. Variable sign-on around 1808 to 1815, closedown around 1130. (Bryan Clark, dxld)

NORTHERN MARIANAS: KCNM Saipan 1080 has applied for a Special Temporary Authorisation (STA) with U1 500 watts day and night from a temporary antenna; tower was collapsed in Typhoon Soudelor and the station has been silent since 3 January. (NRC)

RUSSIA: Radio Rossii 810 Vladivostok has returned to the air. (dxld)

SOUTH KOREA: 837 Seoul (CBS Radio) is running 22kw, not 50kw as reported. Because most people listen to FM instead, 837, 900, and 792 – all in suburban Goyang – are all running at lower power. No word (yet) on the actual power of 792 and 900, but given the fact that the Chinese station totally erases 792 off its given frequency while listening up on the 20th floor – Shenyang, China effortlessly replaces local 792 (less than 10 miles away) with a 65dBu signal – I'm guessing their power isn't too intense. The info source is a station employee via a DX friend. (Chris Kadlec, WRTH fb group 21/6-2016)

EUROPE, AFRICA, AND THE MIDDLE EAST

FINLAND: 729 Pispalan Radio – A new AM-radio station started in Tampere, Finland, on 16.7.2016 on 729: <http://pispalanradio.fi>. Pispalan Radio is not a pirate but a legal and licensed community station //99,5 MHz FM. Power is now 80 W. Hopes for power increase. On the air 24/7 with music from 1920-60's + short local community inserts. <http://pispalanradio.fi/index.php/yhteystiedot>. (Jorma Mäntylä via ARC)

FRANCE: News about France Inter on 162, which as it looks now, will be closing down on Saturday 31st December 2016, possibly switching off at midnight (European Time) into 2017. (Adam Birchenall via Ydun's Medium Wave Info 13.7.2016)

According to Rémy Friess, TDF plans to start DRM tests on 1071 sometime after 1st August. This is in connection with the project SmartCast for seafarers on the Bretagne (Brittany) coast. (Mauno Ritola, ARC 20.7.2016) The MW transmitter location mentioned for this project is Quimper. (Arctic)

HUNGARY: Antenna Hungaria's two-megawatt transmission facility near Solt, Hungary (540-bp), is getting an upgrade from Nautel. The AM and FM broadcast transmitter manufacture will install an NX2000 medium wave system. The project will include large infrastructure changes as well as a new transmitter. The new Nautel system will incorporate five Nautel NX400 transmitters with a combiner. Working with Porion Digital KFT, the companies will interface with the existing medium voltage supply, coordinate building modifications for the new transmitter, and provide required air handling equipment. The transmitter upgrade is expected to be completed in the fall of 2017 – See more at: <http://www.radioworld.com/article/nautel-to-update-antenna-hungarias-mw-station/279561#sthash.MdrteC1b.dpuf>. (RadioWorld)

ICELAND: 666 is a test station from RÚV, transmitting at 1 kW from Vatnsendi in Reykjavík. (Jari Savolainen, RealDX) Confirmed on air by Nigel Pimblett and Theo Donnelly during vacation trips to Iceland this past summer. All music, no announcements heard. (bp)

IRELAND: 252 RTE County Meath – Politicians in Ireland are backing away from earlier plans by RTE to shut down the 300 kW Longwave transmitter in County Meath. Surveys of parts of the Irish diaspora in Britain are a factor, as is the rather unstable parliamentary arithmetic in the Irish Dail (pronounced Doyle)/House of Representatives. (Dr Derek Lynch, Ireland via DXLD 10.6.2016)

ISRAEL: 1287 In February this year, in an unprecedented move, the government of Israel awarded us a license to relaunch Voice of Hope there, broadcasting mainly in Aramaic to provide encouragement and support to displaced Christians in camps in Lebanon and Jordan, and in Arabic to reach Muslims with the Gospel of Jesus Christ. There will also be a few hours of English in the evenings. The license we received awards us the clear channel of 1287 with an output power of 100 kW! We have been assigned to an existing transmitter site in the Upper Galilee region. The station is now under construction, and we plan to be on the air by the end of the year. Isn't it interesting how things can turn full circle! (Ray Robinson via DXLD)

ITALY: Recently reported Italian local stations:

- 828 30/4 14.00 Z100 Milano – z100milano@ondemedie.am IT ID e MX suff.
- 999 28/4 16.30 RAI Radio 1 – Torino IT NX reg. Piemonte ottimo
- 1323 28/4 22.40 Radio Base 101 – Vigonza IT ID e MX suff.
- 1350 24/4 23.10 Radio Time – Pistoia IT ID e MX suff.
- 1350 26/4 22.00 I AM Radio – info@iamradio.am IT ID e MX buono
- 1377 28/4 22.10 Radio Music Time – adiomusictime@mail.com IT ID MX buono
- 1584 30/4 23.10 Radio Studio X – Momigno IT ID e MX buono. (Roberto Pavanello via Steve Whitt)

RUSSIA: 20th edition of the "Broadcasting in Russian" Handbook, published by St Petersburg DX Club, has been recently released. The handbook features all radio stations transmitting Russian language broadcasts in all AM bands (including long and medium waves) at present, both from Russia and abroad. Station listings include frequency and program schedules, transmitter location and power, target areas, postal addresses, phone/fax numbers, Web sites, social network pages, e-mail addresses as well as QSL policy info. The schedules are generally valid until 29 October 2016 (ie during A16 broadcasting season).

The Handbook is in Russian and distributed as a hard copy only. Volume is 68 pages of A5 size. Please address your purchase requests and questions to St Petersburg DX Club: Alexander Beryozkin, PO Box 463, St Petersburg, 190000, Russia or by e-mail: dxspb@nrec.spb.ru. The price is 5 EUR or 6 USD (including delivery by registered mail). PayPal and Skrill money transfers are accepted. Your comments and suggestions regarding the handbook contents are always welcome. (Alexander Beryozkin via Medium Wave Info 12.6.2016)

Heard on the LW/MW in Russia? The radio station "Mayak" from Makhachkala to 918 continued broadcasting. Last weekend it was heard very well https://youtu.be/-f_B2_PyGHGw <http://vcfm.ru/forum/viewtopic.php?f=6&t=78&start=2340> (Message to the WEB page "Victor City". Victor Rutkowski Editor. Ekaterinburg, Russia). (via RUS-DX # 878, 26 June, 2016. Anatoly Klepov, Moscow, Russia 27/6-2016)

NETHERLANDS:

- 538 Radio 538, Limburg stops its broadcasting on MW. "We are now using DAB+, Internet and cable to be well received in Limburg and therefore MW is no longer needed," said Maud, Citizens spokesman for the radio station. (Dean Denton, Ydun's Medium Wave Info 4.8.2016)
- 675 Radio Maria is still off. The transmitter has had technical problems and the station hopes to restart broadcasts on medium wave. Radio Maria broadcast for several months from the Brabant Aarle-Rixtel after the broadcasting of Radio Maria was dismantled in Lopik. Radio Maria wishes to retain medium wave broadcasts to be able to claim the connected digital capacity via DAB+. (Max van Arnhem 31.7.2016 and Dean Denton, Ydun's Medium Wave Info 4.8.2016)
- 747 Still no transmissions on the frequency, but Radio TPOT made a test some weeks ago (M van Arnhem 31.7.2016) 1008 Groot Nieuws Radio, Zeewolde may be closed soon. <http://radio.nl/810899/middengolfzender-groot-nieuws-radio-wordt-mogelijk-gesloopt>. (Svenn Martinsen, DX-Listeners' Club via Mauno Ritola, ARC 22.7.2016)
- 1251 Memories AM, Oss is a new AM-station on 1251 with "memory music". Their home page <http://memories1251.nl> says they are on 24h. When webstream is on, the transmitter is on. Today 7.8.2017 it is off. (Max van Arnhem and Bengt Ericson, ARC)
- 1395 Radio Atlantis, Grou Fryslan that is well heard in Sweden after Albania's evening sign-off, has only 100W. On the air with oldies from 60's, 70's and 80's. (Bengt Ericson 31.7.2016)
- 1395 Q AM, Waardenburg (between Den Bosch and Utrecht). It's the second low power station on this frequency. (René van Hoof, MWC fb group via Ydun's Medium Wave Info 1.8.2016)

SAUDI ARABIA: On 6 Aug at 2100 Jeddah appeared to be back [1521], but somewhat less powerful than it used to be. (Joost de Groot, medimwave.info)

SWITZERLAND: The demolition of the 558 Cima di Dentro transmitter is starting. The 220 metres main mast is supposed to be destroyed on July 18. <http://www.rsi.ch/play/tv/popupvideoplayer?id=7704806#t=3.462>. In frequency lists 558 has always been shown as "Monte Ceneri", but the current site is another one 6km away that in 1979 replaced the old one from 1931. The Monte Ceneri tower is not affected by the clearing of the newer site. It's a situation identical to Sottens where the 1931 vintage tower has been preserved but the new one, built only in 1989 at some distance from the old one, was detonated in 2014 (the TV report includes footage of this). Some photos: <http://www.giangrandi.ch/electronics/broadcast/ceneri.html>. (Kai Ludwig, mwmasts via DXLD)

UKRAINE: Radio Krym Realii (Crimea Realities) is a joint project of Radio Liberty and Ukrainian Radio 1st Program, broadcasting six days a week on the latter's 549 mediumwave frequency. It's on the air Mon-Fri 0535-0600 and 1530-1600, Sat 1510-1600. Programming appears to be in Russian only. Radio Liberty has info and on-demand audio files on its Russian/Ukrainian/Tatar website at krymr.com. (David Kernick, Interval Signals Online via DXLD 9.6.2016)

UNITED KINGDOM: Ofcom is inviting applications for licences to provide community radio services in localities throughout the UK, excluding London and other areas within the M25 orbital motorway. These are for services operating on the AM (medium wave) band only. They offer applicants guidance on the challenges and advantages of broadcasting on AM, explain the importance of selecting an appropriate transmission site, provide details of the funding restrictions which apply to community radio services, and set out how we will assess applications. The closing date for receipt of applications is 5 pm on Tuesday 25 October 2016. (mwc)

WESTERN HEMISPHERE

ARGENTINA:

- 1630 Radio Unidad, Alejandro Korn – new station. Juan Carlos Molina 830, (B1846BEL), José Mármol. W: <http://radiounidadam1630.com> E: radiounidad941@yahoo.com.ar (GRA)
- 1630 AM Diagonal, La Plata (BA227) – delete (GRA)
- 1650 Radio 20 de Agosto, Longchamps (BA239) – ex 1500 (GRA)
- 1650 Radio Fenix, Temperley (BA195) – delete (GRA)
- 1710 AM Selva, Paretido de La Matanza – new station, W: radioselva1710.blogspot.com. (GRA) (Arctic)

BOLIVIA: Information from ATT Boliva dated

- | | | |
|---------------------------------------|--|--------------------------------------|
| 1250 Radio Amoboro, Santa Cruz (SC52) | 1350 Radio TV Salesiana, Yapacani (SC49) | 1450 Radio Em. Bolivia, Oruro (OR13) |
| 1250 Radio Sararenda, Camiri (SC54) | 1370 Cadena Coral, Oruro (OR32) | 1600 LV del Campesino, Cochabamba |
- Delete:
- | | |
|---|--|
| 1180 Radio Independencia, Quillacollo (CO09) | 1360 Radio Em. Tunupa, Tiawanaku (LP103) |
| 1200 Radio Carlos Palenque, La Paz (LP115) | 1400 Radio Tricolor, Villa Tunari (CO71) |
| 1200 Radio María de la Candelaria, Copacabana (LP117) | 1470 Radio Morochata (RPO), Morochata (CO44) |
| 1200 Radio San Simón, Cochabamba (CO81) | 1500 Radio Jacinto Rodríguez, Ciudad |
| 1270 Radio Comunitaria Norte, Puerto Acosta (LP125) | 1500 Radio Chuquisaca, El Alto LP31) |
| 1300 Radio Fides, Potosí (PO38) | 1520 Radio Universidad Juan Misael Saracho, Sucre (CH38) |
| 1340 Radio Grigotá, Santa Cruz (SC17) | 1530 Radio Em. Ballivián, San Borja (BE07) |
| 1360 Radio Cordiale, El Alto (LP161) | 1600 Radio La Voz del Espíritu Santo, El Alto (LP63) |



DX FORUM – Richard C Evans – 3908 Grand Oak Ave Apt 4 – Indianapolis IN 46237
E-mail: REvans5435@yahoo.com DEADLINES: Saturdays

Deadlines: 9/24, 10/1, 10/8, 10/15, 10/22, 10/29, 11/5 and 11/12

Art Peterson, 851 31st St, Richmond CA 94804 awpetersonprf@att.net

I used to tune in ham traffic from Antarctica on the 20 meter band, but I have lost the frequency. It seems like it was 14,2xx. Can anybody tell me the exact freq? I would like to tune that in again sometime. A few days ago I noticed that LW beacons were awakening from their summer slumber, hearing POA on 332, Pahoa, and LLD on 353, Lanai, both in Hawaii in for the first time which means that the new BCB season is upon us. Actually, the summer has brought a good collection of domestic DX to me, but Alaska will have to come out of near 24 hour daylight before the Asians will appear. Although my Sony 2002 has done surprisingly well, the bandwidth is a bit wide for digging out splits. I am still looking for an SDR that is blind accessible. That means that it needs to be operable with keyboard commands only since I cannot use a mouse anymore – I can't see where it's pointing. I tried a Winradio, but it proved to be insufficiently keyboard controllable, so I gave up on that model. Thanks to Nick Hall-Patch for giving me some other leads.

The Sony has been with me for 30 years and has proved itself to be a real workhorse portable, and I never traveled without it. Thanks to the keypad for entering frequencies and a good step switch, the Sony has worked well for me. At least I have built a good library of station references in digital form that I can use effectively. 73.

Jon Pearkins, PO Box 99900, GV 318 495, RPO Windermere, Edmonton, Alberta T6W 2Z5 jon@pearkins.com

The new Sangean HDR-18 has instantly become my DX receiver of choice, replacing my CCRadio 2E. First station I Dded was WCCO-830 beside local CFCW on 840. IRCA member Ted Wendland added a TERK Advantage to his HDR-18, placing the loop near a window in his apartment, for great results in his RFI-filled environment. Since my last report in the Anniversary issue, better DX has inspired me to spend more time at it this summer, most notably the border Mexicans XERF, XEG, XEPRS and XEPE, plus a tentative on 880 watt KVNS-1700 in the Southern tip of Texas. Another new receiver I'm watching is the Titus II, due out before the end of the year for less than \$100, but with RFI concerns given its "Balanced tuned ferrite antenna" so close to its "Quad-core ARM A53 processor" and "7 inch TFT" display. I'm also in the annual IRCA DX Contest for the first time ever.

SPORTCHANNELS IRCA – Compiled by: Eric Bueneman (NØUIH)

E-mail: n0uiheric@gmail.com

Welcome to another edition of SportChannels! Baseball season is now into the pennant races, which means we present the rest of Major League Baseball. Flagship stations are in **boldface** type, Spanish flagships are in **boldface italics** and Spanish language affiliates *in italics*.

AMERICAN LEAGUE – EASTERN DIVISION

BOSTON RED SOX English: Joe Castiglione, Tim Neverett, Spanish: Uri Berenguer, Oscar Baez, Web: redsox.com

AM	1280 WPKZ Fitchburg, MA	1480 WCFR Springfield, VT	96.3 WEII Dennis, MA
550 WDEV Waterbury, VT	1300 WPNH Plymouth, NH	1490 WGCH Greenwich, CT	96.3 WFYX Walpole, NH
620 WZON Bangor, ME	1310 WLOB Portland, ME	1490 WCEC Haverhill, MA	99.3 WKTJ Farmington, ME
800 WLAD Danbury, CT	1320 WCVR Randolph, VT	1490 WMRC Milford, MA	99.7 WNTK New London, NH
830 WCRN Worcester, MA	1340 WSTJ Saint Johnsbury, VT	1490 WIKE Newport, VT	100.1 WHOU Houlton, ME
860 WSBS Great Barrington, MA	1350 WINY Putnam, CT	FM	101.3 WCPV Essex, NY
900 WGHM Nashua, NH	1370 WDEA Ellsworth, ME	92.7 WQDY Calais, ME	101.5 WZEI Meredith, NH
1010 WCNL Newport, NH	1380 WSYB Rutland, VT	93.5 WEEY Swanzey, ME	103.1 WZLO Dover-Foxcroft, ME
1080 WTCI Hartford, CT	1390 WEGP Presque Isle, ME	93.7 WEEI-FM Lawrence, MA	103.7 WVEI-FM Westerlo, RI
1110 WCCM Salem, NH	1400 WILI Willimantic, CT	93.9 WLVB Morrisville, VT	104.9 WBOQ Gloucester, MA
1230 WNAW North Adams, MA	1400 WLTN Littleton, NH	93.9 WWOD Woodstock, VT	105.5 WBYA Rockland, ME
1230 WMOU Berlin, NH	1400 WTSL Hanover, NH	95.3 WALZ Machias, ME	105.5 WWEI Easthampton, MA
1240 WSYI Millinocket, ME	1420 WBEC Pittsfield, MA	95.9 WPEI Saco, ME	107.7 WTPH Hillsboro, NH
1240 WFTN Franklin, NH	1440 WVEI Worcester, MA	96.1 WDEV-FM Warren, VT	
1250 WGAM Manchester, NH	1480 WSAR Fall River, MA	96.3 WJJB Portland, ME	

TAMPA BAY RAYS English: Dave Willis, Andy Freed, Neil Solondz, Spanish: Enrique Oliu, Ricardo Taveras, Web: raysbaseball.com

AM	1070 WKII Solana, FL	1430 WLTG Panama City, FL	98.9 W255CC Bradenton, FL (3)
620 WDAE Saint Petersburg, FL	1220 WSRQ Sarasota, FL	1450 WWJB Brooksville, FL	99.9 WXJB Homosassa, FL
660 WORL Altamonte Springs, FL	1240 WFWN Fort Myers, FL	1520 WBZW Apopka, FL	101.1 W266AI Spring Hill, FL (4)
680 WGES Saint Petersburg, FL	1250 WHNZ Tampa, FL	1550 WAMA Tampa, FL	103.9 W280DK Spring Hill, FL (4)
790 WLBE Leesburg, FL	1270 WNOG Naples, FL	FM	104.3 WYKE Inglis, FL
850 WRUF Gainesville, FL	1350 WDCF Dade City, FL	92.5 WJXL-FM Jacksonville Beach, FL	105.5 W288CJ Oviedo, FL (5)
1010 WJXL Jacksonville Beach, FL	1400 WZHR Zephyrhills, FL	95.3 W237CW Pinellas Park, FL (1)	106.9 W295BH Sarasota, FL (3)
1060 WMEI Titusville, FL	1410 WQJR Prattville, AL	95.3 W237EJ Gainesville, FL (2)	

Relays: 1) WDAE 620, 2) WRUF 850, 3) WSRQ 1220, 4) WWJB 1450, 5) WORL 660

TORONTO BLUE JAYS Jerry Howarth, Joe Siddall, Mike Wilner, Web: bluejays.com

AM	920 CKNX Wingham, ON	1190 CFSL Weyburn, SK	FM
570 CKGL Kitchener, ON	960 CFAC Calgary, AB	1240 CJCS Stratford, ON**	90.5 CJMB Peterborough, ON
590 CJCL Toronto, ON	980 CFPL London, ON	1290 CFRW Winnipeg, MB	95.7 CJNI Halifax, NS
600 CKAT North Bay, ON	1070 CHOK Sarnia, ON	1310 CIWW Ottawa, ON	
690 CKGM Montreal, QC	1150 CJSJ Estevan, SK*	1410 CFTE Vancouver, BC***	

Notes: * denotes listed on old frequency 1280, ** denotes holds CP for FM, *** denotes listed as CKST, the calls on 1040

NATIONAL LEAGUE – EASTERN DIVISION

ATLANTA BRAVES Jim Powell, Don Sutton, Web: braves.com

AM	1150 WJEM Valdosta, GA	1450 WCON Cornelia, GA	93.7 W229AG Atlanta, GA (3)
540 WRGC Sylva, NC	1230 WAUD Auburn, AL	1450 WGPC Albany, GA	93.7 W229AJ Claxton, GA (4)
560 WNSR Brentwood, TN	1230 WBLJ Dalton, GA	1450 WKEU Griffin, GA	93.9 WYTK Rogersville, AL
580 WACQ Tuskegee, AL	1230 WJUL Hiawassee, GA	1450 WMVG Milledgeville, GA	94.3 W232CI Fayetteville, NC (5)
590 WCAB Rutherfordton, NC	1240 WGGG Gainesville, GA	1450 WQNT Charleston, SC	94.5 WJOX-FM Birmingham, AL
600 WCVP Murphy, NC	1240 WPAX Thomasville, GA	1450 WGNS Murfreesboro, TN	95.1 WCDZ Dresden, TN
620 WTRP La Grange, GA	1270 WLIK Newport, TN	1460 WBCU Union, SC	95.5 WJDB-FM Thomasville, AL
630 WJDB Thomasville, AL	1300 WMTM Moultrie, GA	1470 WCLA Claxton, GA	95.9 WTWX Guntersville, AL
630 WNEG Toccoa, GA	1300 WJBB Winder, GA	1480 WVOV Bridgeport, AL	95.9 W240CA Brentwood, TN (6)
680 WCNN North Atlanta, GA	1310 WHEP Foley, AL	1490 WKUN Monroe, GA	96.1 W241BG Valdosta, GA (7)
690 WJOX Birmingham, AL	1310 WISE Asheville, NC	1490 WAZZ Fayetteville, NC	96.3 WRBN-HD2 Clayton, GA
730 WUMP Madison, AL	1320 WISW Columbia, SC	1500 WAYS Macon, GA	96.9 W245BT Dublin, GA (8)
730 WLIL Lenoir City, TN	1320 WMSR Manchester, TN	1570 WCLE Cleveland, TN	97.7 W249DB Hiawassee, GA (9)
740 WMSP Montgomery, AL	1330 WLBB Carrollton, GA	1580 WVOK Oxford, AL	97.9 WDMG-FM Ambrose, GA
780 WPTN Cookeville, TN	1330 WMLT Dublin, GA	1580 WPGY Ellijay, GA	98.7 WISK-FM Americus, GA
790 WSNF Brunswick, GA	1340 WGAU Athens, GA	1580 WPMO Pascagoula, MS	98.7 W254CJ Athens, GA (10)
800 WJAT Swainsboro, GA	1350 WFNS Blackshear, GA	1590 WTGA Thomaston, GA	98.9 WWIK Georgetown, SC
900 WJTH Calhoun, GA	1370 WLOP Jesup, GA	1590 WCAM Camden, SC	99.3 WCON-FM Cornelia, GA
920 WHJD Hazlehurst, GA	1370 WDEF Chattanooga, TN	1630 WRDW Augusta, GA	99.7 W259AK Swainsboro, GA (11)
940 WMAC Macon, GA	1390 WOHS Shelby, NC	FM	99.9 WSNT-FM Sandersville, GA
950 WNZZ Montgomery, AL	1400 WSEG Savannah, GA	92.1 WKUL Cullman, AL	100.3 W262CD Cartersville, GA (12)
950 WHSY Hattiesburg, MS	1400 WJZM Clarksville, TN	92.1 WBTR Carrollton, GA	100.3 W262CE Clayton, GA (13)
970 WVOP Vidalia, GA	1410 WLAQ Rome, GA	92.1 WPEH-FM Louisville, GA	100.5 W263BW Collinsville, AL (14)
970 WYSE Canton, NC	1420 WKWN Trenton, GA	92.3 WQLI Meigs, GA	100.5 W263AI Murfreesboro, TN (15)
990 WEIS Centre, AL	1420 WPEH Louisville, GA	92.5 W223AX Foley, AL (1)	101.1 WLJA Ellijay, GA
1050 WJSB Crestview, FL	1450 WBSR Pensacola, FL	93.1 W226BY Toccoa, GA (2)	101.1 WTGA-FM Thomaston, GA
1050 WLON Lincolnton, NC	1450 WBHF Cartersville, GA		101.1 W266BJ Tallassee, AL (16)

101.1 W266AL Pensacola, FL (17) 103.5 W278BE Union, SC (20) 104.5 WYU Dalton, GA 106.1 W291CA Cookeville, TN (29)
 101.3 W267BC Blairsville, GA (18) 103.7 W279BC Brunswick, GA (21) 104.7 WAAZ Crestview, FL 106.3 WKNU Brewton, AL
 101.7 WYUM Mount Vernon, GA 103.7 W279BD Thomasville, GA (22) 105.1 W286BO New Elm, GA (25) 106.3 WGMK Donalsonville, GA
 101.7 W269CC Adairsville, GA (19) 103.7 WLTC-HD2 Cusseta, GA 105.5 WIFO Jesup, GA **106.7 WYAY Gainesville, GA**
 101.9 W270AF Murfreesboro, TN (15) 103.9 WDDK Greensboro, GA 105.5 WROK-FM Macon, GA 107.1 W296CX Winder, GA (30)
 102.3 WKZR Milledgeville, GA 103.9 W280BA Madison, AL (23) 105.5 W288CV Columbus, GA (26) 107.9 W300BL Manchester, TN (31)
 102.7 WCNG Murphy, NC 104.1 WCLE-FM Cleveland, TN 105.9 W290BR Hazlehurst, GA (27)
 102.7 WPUB Lugoff, SC 104.3 W282AR Savannah, GA (24) 106.1 W291CF Trenton, GA (28)

Relays: 1) WHEP 1310, 2) WNEG 630, 3) WCNN 680, 4) WCLA 1470, 5) WAZZ 1490, 6) WNSR 560, 7) WJEM 1150, 8) WMLT 1330, 9) WJUL 1230, 10) WGAI 1340, 11) WJAT 800, 12) WBHF 1450, 13) WRBN-HD2 96.3, 14) WEIS 990, 15) WGN 1450, 16) WACQ 580, 17) WBSR 1450, 18) WCNG 102.7, 19) WJTH 900, 20) WBCU 1460, 21) WFSN 790, 22) WPAX 1240, 23) WUMP 730, 24) WSEG 1400, 25) WMTM 1300, 26) WLTC-HD2 103.7, 27) WHJD 920, 28) WKWN 1420, 29) WPTN 780, 30) WJBB 1300, 31) WMSR 1320

MIAMI MARLINS English: Dave Van Horne, Glenn Geffner, Spanish: Rafael Ramirez, Luis Quintana, Web: marlins.com

610 WIOD Miami, FL (English-backup) **710 WAQI Miami, FL** (Spanish) **940 WINZ Miami, FL** (English-primary)

PHILADELPHIA PHILLIES English: Larry Andersen, Tom McCarthy, Scott Franzke, no Spanish PBP info available, Web: phillies.com

AM 1150 WDEL Wilmington, DE 1360 WPPA Pottsville, PA **FM**
 630 WEJL Scranton, PA **1210 WPHT Philadelphia, PA** **1400 WEST Easton, PA** 92.7 WONN Starview, PA
 830 WEEU Reading, PA 1230 WCMC Wildwood, NJ 1400 WRAC Williamsport, PA 93.1 WEZW Wildwood Crest, NJ
 930 WHLM Bloomsburg, PA 1240 WBAX Wilkes-Barre, PA 1440 WNPV Lansdale, PA **94.1 WIP Philadelphia, PA**
 1020 *WIBG Ocean City/Somers Point, NJ* 1270 WLBR Lebanon, PA 1490 WBCB Levittown, PA 100.7 WZXL Wildwood, NJ
 1070 WKOK Sunbury, PA 1320 WGET Gettysburg, PA **1680 WTTM Lindenwold, NJ** 101.7 WDEL-FM Canton, NJ

AMERICAN LEAGUE – CENTRAL DIVISION

CLEVELAND INDIANS Tom Hamilton, Jim Rosenhaus, Web: indians.com

AM 1330 WFIN Findlay, OH 1490 WMRN Marion, OH 93.5 WBNV Barnesville, OH
 570 WKBN Youngstown, OH 1370 WSPD Toledo, OH 1540 WBTC Uhrichsville, OH 95.3 WLKR Norwalk, OH
 930 WEOL Elyria, OH 1390 WBLL Bellefontaine, OH 1550 WDLR Delaware, OH 98.3 WMAN-FM Fredericktown, OH
 970 WFUN Ashtabula, OH 1430 WCLT Newark, OH 1590 WAKR Akron, OH **100.7 WMMs Cleveland, OH**
1100 WTAM Cleveland, OH 1430 WFOB Fostoria, OH **FM** 100.9 WBNV Bryan, OH
 1260 WRIE Erie, PA 1450 WJER Dover, OH 92.7 WQEL Bucyrus, OH 100.9 WJAW McConnellsville, OH
 1300 WMVO Mount Vernon, OH 1450 WLEC Sandusky, OH 92.9 W225CM Delaware, OH (1) 104.5 WYKT Wooster, OH
 1320 WLOH Lancaster, OH 1480 WHBC Canton, OH 93.1 WWSR Lima, OH

Relay: 1) WDLR 1550

DETROIT TIGERS Jim Price, Dan Dickerson, Web: tigers.com

AM 1310 WCCW Traverse City, MI 1460 WBRN Big Rapids, MI 97.7 WTV Sandusky, MI
 590 WKZO Kalamazoo, MI 1320 WDMJ Marquette, MI 1470 WLQR Toledo, OH 98.7 WLDN Ludington, MI
 680 WDBC Escanaba, MI 1330 WTRX Flint, MI **FM** 99.3 W257CZ Houghton, MI (3)
 790 WSGW Saginaw, MI 1340 WMBN Petoskey, MI 92.1 WCSR Hillsdale, MI 100.7 WWTW Oscoda, MI
 1050 WTKA Ann Arbor, MI 1360 WKYO Karo, MI 92.7 WLKI Angola, IN 101.1 WGRY-FM Grayling, MI
 1090 WKBZ Muskegon, MI 1370 WGHN Grand Haven, MI 93.7 WKAD Harrietta, MI 101.9 W270CJ Jackson, MI (4)
 1230 WBT STurgis, MI 1380 WPHM Port Huron, MI 95.1 W236BR Roscommon, MI (1) 102.3 W272CR Petoskey, MI (5)
 1230 WSOO Sault Sainte Marie, MI 1400 WCCY Houghton, MI 95.3 WBCB Battle Creek, MI 103.7 WCSY South Haven, MI
 1240 WIAN Ishpeming, MI 1400 WSJM Saint Joseph, MI 95.7 W240CZ Benton Harbor, MI (2) 104.9 WQBX Alma, MI
 1240 WJIM Lansing, MI 1450 WHTC Holland, MI 96.1 WMAX Holland, MI 106.9 WOOD-FM Muskegon, MI
 1270 WMKT Charlevoix, MI 1450 WIBM Jackson, MI 96.7 WRGZ Rogers City, MI 107.5 WCCW-FM Traverse City, MI
1270 WXYT Detroit, MI 1450 WMIQ Iron Mountain, MI **97.1 WXYT-FM Detroit, MI** 107.7 W299BE Big Rapids, MI (1)
 1300 WOOD Grand Rapids, MI 1450 WNBY Newberry, MI 97.7 WMLQ Manistee, MI

Relays: 1) WBRN 1460, 2) WSJM 1400, 3) WCCY 1400, 4) WIBM 1450, 5) WMKT 1270

KANSAS CITY ROYALS Denny Matthews, Steve Physioc, Ryan Lefebvre, Steve Stewart, Web: royals.com

AM 1310 KGMT Fairbury, NE 1580 KNIM Maryville, MO 98.3 KQZQ Kiowa, KS
 580 WIBW Topeka, KS 1320 KLWN Lawrence, KS 1600 KMDO Fort Scott, KS 98.5 K253BP Nickerson, KS (7)
610 KCSP Kansas City, MO 1340 KGGG Garden City, KS 1600 KTTN Trenton, MO 98.7 KFH-FM Clearwater, KS
 680 KFEQ Saint Joseph, MO 1340 KICK Springfield, MO 1620 KOZN Bellevue, NE 99.1 KDWD Marceline, MO
 690 KGGF Coffeyville, KS 1350 KMAN Manhattan, KS **FM** 100.1 KKWK Cameron, MO
 780 WJAG Norfolk, NE 1370 KWRT Boonville, MO 92.1 KMZA Seneca, KS 100.9 KESA Eureka Springs, AR
 860 KKOW Pittsburg, KS 1370 KAWL York, NE 92.1 KKOZ-FM Ava, MO 101.3 KLZA Falls City, NE
 960 KMA Shenandoah, IA 1400 KAYS Hays, KS 92.3 KTTN-FM Trenton, MO 102.3 KOZQ Waynesville, MO
 990 KRSL Russell, KS 1400 KVOE Emporia, KS 92.3 K222BD Lebanon, MO (1) 102.5 KSTZ-HD2 Des Moines, IA
 1150 KSAL Salina, KS 1410 KOOQ North Platte, NE 92.5 KWIX-FM Cairo, MO 102.9 KMMO-FM Marshall, MO
 1150 KRMS Osage Beach, MO 1420 KJCK Junction City, KS 93.3 K227CX Manhattan, KS (2) 103.3 K277CK Arkansas City, KS (8)
 1180 KZOT Bellevue, NE 1420 KULY Ulysses, KS 93.7 K229CC Des Moines, IA (3) 103.5 K278CI York, NE (9)
 1190 KVSU Beloit, KS 1420 KROLL California, MO 93.7 K229CC Des Moines, IA (3) 103.9 KOMB Fort Scott, KS
 1220 KOFO Ottawa, KS 1430 KKOZ Ava, MO 93.7 KNTK Firth, NE 104.1 KZJF Jefferson City, MO
 1240 KFHW Wichita, KS 1440 KCHE Cherokee, IA 94.5 KLIQ Hastings, NE 104.9 KXEA Lowry City, MO
 1270 KSCB Liberal, KS 1450 KWBW Hutchinson, KS 96.7 KBBE McPherson, KS 105.9 K290AT Norfolk, NE (10)
 1270 KRXO Claremore, OK 1450 KOKO Warrensburg, MO 96.9 K245BQ Emporia, KS (4) 106.7 KQNK-FM Newton, KS
 1280 KSOK Arkansas City, KS 1460 KKOY Chanute, KS 97.1 KNIM-FM Maryville, MO 107.1 KDSN-FM Denison, IA
 1280 KDCK Clinton, MO 1530 KDSN Denison, IA 97.3 K247AT Chanute, KS (5) 107.3 KLPW-FM Steelville, MO
 1300 KMMO Marshall, MO 1530 KQNK Norton, KS 97.3 KBLR Blair, NE 107.9 K300CY Broken Arrow, OK (11)
 1300 KBRL McCook, NE 1540 KLKC Parsons, KS 97.5 K248BP Osage Beach, MO (6)
 97.7 KHBT Humboldt, IA

Relays: 1) KICK 1340, 2) KMAN 1350, 3) KSTZ HD2 102.5, 4) KVOE 1400, 5) KKOY 1460, 6) KRMS 1150, 7) KWBW 1450, 8) KSOK 1280, 9) KAWL 1370, 10) WJAG 780, 11) KRXO 1270

MINNESOTA TWINS English: Cory Provus, Dan Gladden, Jack Morris, Kris Atteberry, Spanish: Alfonso Hernandez, Tony Oliva, Web: twinsbaseball.com

AM 730 KWOA Worthington, MN 910 WHSM Hayward, WI 1060 KGFX Pierre, SD
 570 WNAX Yankton, SD 790 KFGO Fargo, ND 920 KDHL Faribault, MN 1080 KYMN Northfield, MN
 610 KDAL Duluth, MN 860 KNUJ New Ulm, MN 920 KWAD Wadena, MN 1140 KSOO Sioux Falls, SD
 620 KMSR Sioux City, IA 870 KPRM Park Rapids, MN 950 KWAT Watertown, SD 1190 WBHA Wabasha, MN
 710 KXMR Bismarck, ND 910 KCJB Minot, ND 1020 KJKJ Fergus Falls, MN 1210 KOKK Huron, SD

1220 KDDR Oakes, ND
1230 KMRS Morris, MN
1230 KTRF Thief River Falls, MN
1240 KWNO Winona, MN
1240 KICD Spencer, IA
1240 WJON Saint Cloud, MN
1240 WMFG Hibbing, MN
1240 KDLR Devils Lake, ND
1250 KCFI Cedar Falls, IA
1260 KROX Crookston, MN
1290 KBMO Benson, MN
1300 KGLO Mason City, IA
1310 KGLB Glencoe, MN
1310 KNOX Grand Forks, ND
1320 KOZY Grand Rapids, MN
1340 KDLM Detroit Lakes, MN
1340 KRBT Eveleth, MN
1340 KROC Rochester, MN
1350 KCHC New Prague, MN
1350 KDIO Ortonville, MN
1390 KRFO Owatonna, MN

1400 KMHL Marshall, MN
1400 KMNV Saint Paul, MN
1400 KQDJ Jamestown, ND
1400 WBIZ Eau Claire, WI
1410 KRWB Roseau, MN
1420 KTOE Mankato, MN
1420 KGIM Aberdeen, SD
1430 KNSP Staples, MN
1450 KATE Albert Lea, MN
1450 KBMW Breckenridge, MN
1450 KBUN Bemidji, MN
1450 WELY Ely, MN
1460 KLTC Dickinson, ND
1470 KMNQ Brooklyn Park, MN
1480 KAUS Austin, MN
1490 KNDC Hettinger, ND
1490 KOVC Valley City, ND
1510 KIFG Iowa Falls, IA
1570 KAKK Walker, MN
1580 KDOM Windom, MN
1590 KDJS Willmar, MN

1650 KCNZ Cedar Falls, IA
FM
92.1 WYRQ Little Falls, MN
93.1 K226CA Detroit Lakes, MN (1)
94.3 KDOM-FM Windom, MN
94.3 KKIN-FM Aitkin, MN
94.3 KULO Alexandria, MN
94.5 WELY-FM Ely, MN
94.9 K235BP Bemidji, MN (2)
95.3 KIFG-FM Iowa Falls, IA
95.9 K240CJ Oakes, ND (3)
96.3 KTWN-FM Edina, MN
96.3 K242AY Walker, MN (4)
97.1 K246AM Jamestown, ND (5)
97.3 KRZY Starbuck, MN
98.3 K252EX Spencer, IA (6)
99.7 W259CG Alma, WI (7)
99.9 K260BO Yankton, SD (8)
100.9 WCMP-FM Pine City, MN
102.7 K274AL Mankato, MN (9)

102.9 KZIA-HD2 Cedar Rapids, IA
102.9 K275BB Roseau, MN (10)
103.1 KFIL-FM Preston, MN
103.3 K277AI Russell, MN (11)
103.5 KUAL Brainerd, MN
104.1 KSDM International Falls, MN
104.5 KBUN-FM Blackduck, MN
104.9 WLMX Balsam Lake, WI
105.5 KMGH Montevideo, MN
105.7 K289CE Grand Forks, ND (12)
105.9 KWNG Red Wing, MN
106.9 KARP Dassel, MN
106.9 WMOZ Moose Lake, MN
107.1 KMGK Glenwood, MN
107.1 K296FI Pierre, SD (13)
107.3 KNUJ-FM Sleepy Eye, MN
107.5 K296FW Aberdeen, SD (14)
107.5 K298BM Cedar Rapids, IA (15)
107.9 K300BG Grand Forks, ND (16)

Relays: 1) KDLM 1340, 2) KBUN 1450, 3) KDDR 1220, 4) KAKK 1570, 5) KQDJ 1400, 6) KICD 1240, 7) WBHA 1190, 8) WNAX 570, 9) KTOE 1420, 10) KRWB 1410, 11) KMHL 1400, 12) KROX 1260, 13) KGFX 1060, 14) KGIM 1420, 15) KZIA-HD2 102.9, 16) KNOX 1310

NATIONAL LEAGUE – CENTRAL DIVISION

CINCINNATI REDS Marty Brennaman, Thom Brennaman, Jeff Brantley, Web: reds.com

AM
580 WCHS Charleston, WV
600 WKYH Paintsville, KY
680 WHBE Newburg, KY
700 WLW Cincinnati, OH
800 WVHU Huntington, WV
870 WPWT Colonial Heights, TN
900 WLSI Pikeville, KY
920 WTCW Whitesburg, KY
970 WATH Athens, OH
990 WTIG Canton, OH
1130 WFNF Brazil, IN
1150 WLOC Munfordville, KY
1150 WIMA Lima, OH
1220 WSLM Salem, IN
1230 WCDS Glasgow, KY
1230 WHOP Hopkinsville, KY
1230 WIRO Ironton, OH
1230 WYTS Columbus, OH
1240 WFTM Maysville, KY
1240 WPKE Pikeville, KY
1240 WSFC Somerset, KY
1240 WHIZ Zanesville, OH
1250 WCHO Washington Court House, OH
1260 WNXT Portsmouth, OH

1270 WXGO Madison, IN
1270 WAIN Columbia, KY
1270 WILE Cambridge, OH
1270 WQTT Marysville, OH
1290 WVOW Logan, WV
1330 WVHI Evansville, IN
1340 WXFN Muncie, IN
1340 WEKY Richmond, KY
1360 WMOV Ravenswood, WV
1370 WGCL Bloomington, IN
1370 WGOH Grayson, KY
1390 WMPO Middleport, OH
1400 WCYN Cynthiana, KY
1400 WFTG London, KY
1400 WIEL Elizabethtown, KY
1400 WBTH Williamson, WV
1410 WING Dayton, OH
1420 WTCR Kenova, WV
1430 WFOB Fostoria, OH
1440 WPGW Portland, IN
1450 WTCO Campbellsville, KY
1450 WWKU Bowling Green, KY
1450 WWXL Manchester, KY
1450 WNOS New Bern, NC
1460 WEKB Elkhorn City, KY
1490 WKBV Richmond, IN

1490 WBEX Chillicothe, OH
1490 WMOA Marietta, OH
1490 WSWW Charleston, WV
1550 WCVL Crawfordsville, IN
1580 WAMW Washington, IN
1580 WLPK Connersville, IN
1590 WSRW Hillsboro, OH
1600 WZZW Milton, WV

FM
92.7 W224BR Chillicothe, OH (1)
93.5 WAIN-FM Columbia, KY
94.3 WKIK Celina, OH
94.5 WYDB Englewood, OH*
95.3 WNDI-FM Sullivan, IN
95.3 W237BV Hopkinsville, KY (2)
95.9 WAMW-FM Washington, IN
95.9 W293BP Pikeville, KY (3)
96.1 W241CD Bloomington, IN (4)
96.7 WBVI Fostoria, OH
97.1 W246CJ Jacksonville, NC (5)
97.1 W246CE Athens, OH (6)
97.9 WSLM-FM Salem, IN
99.1 WHSX Edmonton, KY
99.5 W258BA Terre Haute, IN (7)
99.7 WUGO Grayson, KY

100.1 WMDJ Allen, KY
100.5 WSJD Princeton, IN
100.7 W264BY Kingsport, TN (8)
100.9 WPGW-FM Portland, IN
100.9 W266CE Richmond, IN (9)
100.9 W265CH Grayson, KY (10)
101.5 WVKB Vine Grove, KY**
101.5 W268CC Hillsboro, OH (11)
101.9 WVOW-FM Logan, WV
102.3 WCYN-FM Cynthiana, KY
102.3 WMTD Hinton, WV
102.5 W273BC Williamson, WV (12)
102.7 W274BQ Bowling Green, KY (13)
102.9 W275AJ Muncie, IN (14)
103.7 W279CE Middleport, OH (15)
104.3 W282BZ Elkhorn City, KY (16)
104.5 W283AQ Cross Lanes, WV (17)
105.5 WMVR Sidney, OH
105.7 WHBE-FM Eminence, KY
106.1 WMOR-FM Morehead, KY
106.7 W294AF Ripley, WV*** (18)
106.9 W295BT Connersville, IN (19)
107.1 WLRX Ironton, OH
107.9 W300CB Cambridge, OH (20)

Relays: 1) WBEX 1490, 2) WHOP 1230, 3) WLSI 900, 4) WGCL 1370, 5) WNOS 1450, 6) WATH 970, 7) WFNF 1130, 8) WPWT 870, 9) WKBV 1490, 10) WGOH 1370, 11) WSRW 1590, 12) WBTH 1400, 13) WWKU 1450, 14) WXFN 1340, 15) WMPO 1390, 16) WEKB 1460, 17) WSWW 1490, 18) WMOV 1360, 19) WLPK 1580, 20) WILE 1270, * denotes Reds list has old calls WKFS, ** denotes Reds list has old calls WTHX, *** notes this listed as 106.5

MILWAUKEE BREWERS Bob Uecker, Jeff Levering, Lane Grindle, Web: brewers.com

AM
550 WSAU Wausau, WI
570 WMAM Marinette, WI
580 WKTY La Crosse, WI
590 WJMS Ironwood, MI
620 WTMJ Milwaukee, WI
940 WFAW Fort Atkinson, WI
960 WTCH Shawano, WI
1100 WISS Berlin, WI
1150 WHBY Kimberly, WI

1230 WCLO Janesville, WI
1240 WJMC Rice Lake, WI
1240 WOMT Manitowoc, WI
1260 WXCE Amery, WI
1310 WIBA Madison, WI
1330 WHBL Sheboygan, WI
1350 WPDR Portage, WI
1360 WTAQ Green Bay, WI
1400 WRDB Reedsburg, WI
1430 WBEV Beaver Dam, WI

1450 KFIZ Fond du Lac, WI
1450 WRCO Richland Center, WI
1490 WIGM Medford, WI
1550 WEVER River Falls, WI
1590 WPVL Platteville, WI

FM
92.3 WRLS Hayward, WI
92.7 WDUX-FM Waupaca, WI
93.9 WDOR-FM Sturgeon Bay, WI
94.3 WQPC Prairie du Chien, WI

96.5 WHOH Rhinelander, WI
97.5 WTAQ-FM Glenmore, WI
98.3 WCQM Park Falls, WI
99.7 WWIS-FM Black River Falls, WI
99.9 WSAU-FM Rudolph, WI
106.1 WACD Antigo, WI
106.3 WEVER-FM River Falls, WI
106.7 WATQ Chetek, WI
107.3 WNXR Iron River, WI

PITTSBURGH PIRATES Joe Block, Bob Walk, Steve Blass, Web: pirates.com

AM
590 WMBS Uniontown, PA
600 WFRM Coudersport, PA
630 WJAW Saint Mary's, WV
680 WISR Butler, PA
680 WKAZ Charleston, WV
850 WNTJ Johnstown, PA
930 WRTV Huntington, WV
1050 WLYC Williamsport, PA*
1150 WHUN Huntingdon, PA
1160 WCCS Homer City, PA

1230 WBVP Beaver Falls, PA
1230 WTIV Titusville, PA
1270 WCBC Cumberland, MD
1280 WJST New Castle, PA
1290 WFBG Altoona, PA
1310 WNAE Warren, PA
1330 WETZ New Martinsville, WV
1340 WTRN Tyrone, PA
1390 WNIO Youngstown, OH
1390 WKLP Keyser, WV
1400 WJET Erie, PA

1400 WBBB Wheeling, WV
1420 WCED Du Bois, PA
1430 WEIR Weirton, WV
1440 WAJR Morgantown, WV
1450 WFRF Franklin, PA
1450 WJPA Washington, PA
1450 WQWK State College, PA
1460 WMBA Ambridge, PA
1480 WCNS Latrobe, PA
1490 WESB Bradford, PA
1490 WMGW Meadville, PA

1490 WTCS Fairmont, WV
FM
93.7 KDKA-FM Pittsburgh, PA
96.7 WLLF Mercer, PA
97.5 WDDH Saint Mary's, PA
104.1 WPXZ-FM Punxsutawney, PA
104.1 WETT Clarksburg, WV
106.3 WCDK Cadiz, OH

Note: * denotes frequency listed as 92.7 MHz

SAINT LOUIS CARDINALS John Rooney, Mike Shannon, Rick Horton, Web: cardinals.com

AM
540 WKFN Clarksville, TN
680 WMFS Memphis, TN
690 KAFN Benton, AR

730 WFMW Madisonville, KY
740 WVLN Olney, IL
790 KKON Kealahou, Hawaii, HI
790 WMC Memphis, TN

800 KAGH Crossett, AR
800 KVOM Morrilton, AR
850 KHLO Hilo, Hawaii, HI
860 WSON Henderson, KY

870 WTIM Assumption, IL
870 KAAH Bethany, MO
980 KSGM Chester, IL
990 KRMO Cassville, MO

1050 K SIS Sedalia, MO
1070 KMO Hannibal, MO
1120 KMOX Saint Louis, MO
1220 WLPO LaSalle, IL
1220 KJAN Atlantic, IA
1230 WHCO Sparta, IL
1230 WJBC Bloomington, IL
1230 KZYM Joplin, MO
1230 WBBZ Ponca City, OK
1240 KTLO Mountain Home, AR
1240 KWAK Stuttgart, AR
1240 WTAX Springfield, IL
1240 KNEM Nevada, MO
1250 KBCT Houston, MO
1280 KCOB Newton, IA
1290 WIRL Peoria, IL
1310 WDXI Jackson, TN
1330 KUKU Willow Springs, MO
1340 KBTA Batesville, AR
1340 WJPF Herrin, IL
1340 WSOY Decatur, IL
1340 WNBS Murray, KY
1340 KSMO Salem, MO
1340 KXEO Mexico, MO
1390 KCRN Enid, OK
1400 WGIL Galesburg, IL
1400 KREF Norman, OK
1400 KTMC McAlester, OK
1420 WINI Murphysboro, IL
1430 WKMC Mayfield, KY
1450 WKEI Kewanee, IL
1450 WAOV Vincennes, IN
1450 KIRX Kirksville, MO
1450 KWPM West Plains, MO

1450 KGFF Shawnee, OK
1450 WTRO Dyersburg, TN
1460 WROY Carmi, IL
1460 KXNO Des Moines, IA
1470 KGND Vinita, OK
1490 WDAN Danville, IL
1490 WTUP Tupelo, MS
1490 WVVG Vicksburg, MS
1500 KPGM Pawhuska, OK
1520 WLUV Loves Park, IL
1540 WSMI Litchfield, IL
1550 KESJ Saint Joseph, MO
1560 WBYS Canton, IL
1570 WTAY Robinson, IL
1570 WTRB Ripley, TN
1580 KTGR Columbia, MO

FM
92.3 KSAR Salem, AR
92.5 KPPL Poplar Bluff, MO
92.7 KASR Villonia, AR
92.9 WSEI Olney, IL
92.9 WMFS-FM Bartlett, TN
93.3 WQTY Linton, IN
93.3 K227CQ Bartlesville, OK (1)
93.5 WSJK Tuscola, IL
93.5 W228DC Carbondale, IL (2)
93.7 W229BO Galesburg, IL (3)
93.7 W229BZ Canton, IL (4)
93.9 WCEZ Carthage, IL
93.9 W230BQ Bruceville, IN (5)
93.9 W230BN Mayfield, KY (6)
93.9 KSSZ Fayette, MO
94.1 WMIX-FM Mount Vernon, IL
94.3 KATI California, MO

94.9 W235AC Madisonville, KY (7)
95.1 KMAQ-FM Maquoketa, IA
95.5 KAAAN-FM Bethany, MO
95.7 WSEY Oregon, IL
95.9 KWHF Harrisburg, AR
95.9 KCOB-FM Newton, IA
95.9 WGKY Wickliffe, KY
95.9 KKBL Monett, MO
96.1 KITO Vinita, OK
96.3 W242BZ Taylorville, IL (8)
96.5 W243CU Henderson, KY (9)
97.1 KYAL-FM Muskogee, OK
97.3 KYRX Marble Hill, MO
97.5 KNMO Nevada, MO
97.5 KOEA Doniphan, MO
97.7 KOTM Ottumwa, IA
97.9 KBXB Sikeston, MO
97.9 KFBD Waynesville, MO
98.5 WQKZ Ferdinand, IN
98.5 KWKJ Windsor, MO
98.5 K253AY Norman, OK (10)
98.9 WHQZ Neoga, IL
99.1 KMA-FM Clarinda, IA
99.1 WCBL-FM Grand Rivers, KY
99.3 KHUC Pine Bluff, AR
99.3 WZLT Lexington, TN
99.7 KWPS Caddo Valley, AR
99.7 KTTR-FM Saint James, MO
99.7 K259BF Kirksville, MO (11)
99.9 KIRK Macon, MO
100.3 KURM-FM Gravette, AR
100.3 W262BI Robinson, IL (12)
100.3 KUKU-FM Willow Springs, MO
100.5 KMEM Memphis, MO

100.7 W264CK Clarksville, TN (13)
101.1 K266AN Atlantic, IA (14)
101.3 WMSK-FM Sturgis, KY
101.3 KTXR Springfield, MO
101.7 W269CE Dyersburg, TN (15)
102.1 KJFM Louisiana, MO
102.1 KTUI-FM Sullivan, MO
102.3 WEBQ-FM El Dorado, IL
102.3 WRMJ Aledo, IL
102.5 KEZK-HD3 Saint Louis, MO
102.7 W274BM Peoria, IL (16)
103.1 KFFA Helena, AR
103.1 KHGG-FM Waldron, AR
103.5 WXLT Christopher, IL
103.7 KJEL Lebanon, MO
103.9 W280EG Peru, IL (17)
104.3 W282AL Kewanee, IL (18)
104.3 KDBB Bonne Terre, MO
104.7 KRES Moberly, MO
104.7 WMUF-FM Paris, TN
104.9 KAGH-FM Crossett, AR
104.9 KYTN Union City, TN *
105.1 WGEM-FM Quincy, IL
105.3 WJLT Evansville, IN
105.5 KYEL Danville, AR
105.5 WREZ Metropolis, IL
105.9 WOKZ Fairfield, IL
106.5 KTMO New Madrid, MO
106.7 WYFX Mount Vernon, IN
106.9 W295BQ Litchfield, IL (19)
107.5 W298AP Springfield, IL (20)
107.5 W298CD Shelbyville, IL (8)

Relays: 1) KWON 1400, 2) WINI 1420, 3) WGIL 1400, 4) WBYS 1560, 5) WAOV 1450, 6) WYMC 1430, 7) WFMW 730, 8) WTIM 870, 9) WSON 860, 10) KREF 1400, 11) KIRX 1450, 12) WTAY 1570, 13) WKFN 540, 14) KJAN 1220, 15) WTRO 1450, 16) WIRL 1290, 17) WLPO 1220, 18) WKEI 1450, 19) WSMI 1540, 20) WTAX 1240, * denotes Cardinals list has calls as WYVY

AMERICAN LEAGUE – WESTERN DIVISION

HOUSTON ASTROS English: Robert Ford, Steve Sparks, Spanish: Francisco Romero, Alex Trevino, Web: astros.com

AM
760 KTKR San Antonio, TX
790 KBME Houston, TX
910 KNAF Fredericksburg, TX
910 WUBR Baton Rouge, LA
1010 KBBW Waco, TX
1220 KMVL Madisonville, TX
1220 KM2XVL Huntsville, TX (1)
1230 KSIX Corpus Christi, TX
1260 KSML Diboll, TX

1280 KWHI Brenham, TX
1300 KSYB Shreveport, LA
1300 KVET Austin, TX
1310 KEZM Sulphur, LA
1340 KKAM Lubbock, TX
1340 KVVN Victoria, TX
1400 KBYG Big Spring, TX
1400 KTEM Temple, TX
1440 KETX Livingston, TX
1450 KIKR Beaumont, TX

1450 KMHT Marshall, TX
1460 KTKC Springhill, LA
1470 KWRD Henderson, TX
1560 WSLA Slidell, LA
1590 KGAS Carthage, TX
1600 KOGT Orange, TX

FM
92.7 KASR Villonia, AR
94.1 KQXY Beaumont, TX

98.1 KTLT Anson, TX
98.3 KULM-FM Columbus, TX
98.9 K255AR Trinity, TX (1)
103.7 KLWB Carencro, LA
103.9 KMHT-FM Marshall, TX
105.3 KTWL Todd Mission, TX
105.7 K289BU Waco, TX (2)
106.3 K292FE Big Spring, TX (3)

Relays: 1) KMVL 1220, 2) KBBW 1010, 3) KBYG 1400

SEATTLE MARINERS Rick Rizzs, Aaron Goldsmith, Web: mariners.com

AM
550 KTTN Anchorage, AK
630 KJNO Juneau, AK
690 KRCO Prineville, OR
710 KIRO Seattle, WA (primary)
770 KTHH Seattle, WA (backup)
800 KINY Juneau, AK
840 KMAX Colfax, WA
900 KKRT Wenatchee, WA

910 KMTT Vancouver, WA
920 KXLY Spokane, WA
930 KTKN Ketchikan, AK
1020 KWIQ Moses Lake, WA
1030 KMAS Shelton, WA
1040 CKST Vancouver, BC
1170 KPUG Bellingham, WA
1230 KIFW Sitka, AK
1240 KEJO Corvallis, OR

1240 KTIK Pendleton, OR
1240 KXLE Ellensburg, WA
1300 KLER Orofino, ID
1320 KXDC Walla Walla, WA
1320 KROCR Aberdeen, WA
1340 KTHH Corvallis, OR
1340 KJOX Kennewick, WA
1350 KRCL Lewiston, ID
1390 KBBO Yakima, WA

1430 KBRK Mount Vernon, WA
1450 KONP Port Angeles, WA
1470 KELA Centralia/Chehalis, WA
1490 KFKB Forks, WA
1490 KLOG Longview, WA

FM
92.1 KCRK-FM Colville, WA
104.5 K283BX Wapato, WA (1)

Relay: 1) KBBO 1390

TEXAS RANGERS English: Matt Hicks, Eric Nadel, Spanish: Eleno Ornelas, Jose Guzman, Web: texastrangers.com

AM
670 KHGZ Glenwood, AR
690 KPET La Mesa, TX
710 KGNC Amarillo, TX
900 KCLW Hamilton, TX
900 KPNY Atlanta, TX
960 KGKL San Angelo, TX
990 KFCD Farmersville, TX (backup)
1080 KRLD Dallas, TX (backup)
1090 KVOP Plainview, TX
1150 KZNE College Station, TX
1230 KSEY Seymour, TX
1230 KSST Sulphur Springs, TX
1240 KVLV Alpine, TX
1250 KXDC San Antonio, TX
1260 KBHC Nashville, AR
1260 KLGO Elgin, TX
1290 KUOA Siloam Springs, AR
1290 KIVY Crockett, TX
1300 KSYB Shreveport, LA
1310 KZYP Malvern, AR

1320 KNCB Vivian, LA
1330 KTON Cameron, TX
1350 KCAR Clarksville, TX
1380 KBWD Brownwood, TX
1380 KHEY El Paso, TX
1390 KDQN DeQueen, AR
1400 KKTK Texarkana, TX
1410 KNNTX Bowie, TX
1450 KSNY Snyder, TX
1470 KGND Vinita, OK
1490 KRUI Ruidoso, NM
1490 KBIX Muskogee, OK
1490 KKB Broken Bow, OK
1490 KNEL Brady, TX
1490 KPLT Paris, TX
1490 KYZS Tyler, TX
1540 KZMP University Park, TX (primary)
1550 KYAL Sapulpa, OK
1550 KNSH Canyon, TX
1560 KEBC Del City, OK

1560 KZQQ Abilene, TX
1580 KGAF Gainesville, TX
1590 KLRK Mexia, TX
1660 KRZI Waco, TX

FM
92.1 KRWR Tyler, TX
92.7 KASR Villonia, AR
92.7 KBEU Bearden, AR
92.7 KJVC Mansfield, LA
92.7 KALP Alpine, TX
94.3 KSEY-FM Seymour, TX
94.5 K233DB San Antonio, TX (1)
95.5 KXPN Scotland, TX
95.5 K238BF Atlanta, TX (2)
96.1 KITO Vinita, OK
96.3 K242BC Paris, TX (3)
97.1 KYAL-FM Muskogee, OK
97.3 KTTU New Deal, TX
97.9 K250AX Siloam Springs, AR (4)
98.5 KBXJ Los Ybanez, TX

98.9 K255BH Glenwood, AR (5)
99.1 K256BW Waco, TX (6)
99.5 KAKS Goshen, AR
100.7 KEAZ Kensett, AR*
100.7 KPXI Overton, TX
100.9 K265DV Temple, TX (7)
101.3 K267AI Moody, TX (8)
102.7 K274CM College Station, TX (9)
102.9 K275AS Trinity, TX (10)
103.1 KHHL Karnes City, TX
103.9 KMHT-FM Marshall, TX
104.3 KGAS-FM Carthage, TX
104.5 KBEF Gibsland, LA
105.1 KWMW Maljamar, NM
105.3 KRLD-FM Dallas, TX (primary)
105.5 KNAS Nashville, AR
106.9 KYXK Gurdon, AR
107.7 KRXO-FM Oklahoma City, OK

Relays: 1) KZDC 1250, 2) KPNY 900, 3) KPLT 1490, 4) KUOA 1290, 5) KHGZ 670, 6) KRZI 1660, 7) KTON 1330, 8) KLRK 1590, 9) KZNE 1150, 10) KIVY 1290,
Note: * denotes listed as KZYP-FM Malvern, AR on the Rangers' list

NATIONAL LEAGUE – WESTERN DIVISION

ARIZONA DIAMONDBACKS English: Greg Schulte, Tom Candiotti, Spanish: Oscar Soria, Rodrigo Lopez, Web: dbacks.com

AM	1230 KINO Winslow, AZ	FM	100.5 K263BM Riviera, AZ (1)
600 KVNA Flagstaff, AZ	1340 KIKO Apache Junction, AZ	90.7 XHLDC Magdalena, SO	101.1 XHVSS Hermosillo, SO
620 KTAR Phoenix, AZ	1400 KCYK Yuma, AZ	92.1 KZUA Holbrook, AZ	102.5 XHIQ Ciudad Obregon, SO
780 KAZM Sedona, AZ	1400 KRVZ Springerville, AZ	94.3 KDDL Chino Valley, AZ	103.3 KZKE Seligman, AZ
980 KNTR Lake Havasu City, AZ	1400 KSUN Phoenix, AZ	94.3 K232EI Lake Havasu City, AZ (1)	103.7 KNMZ Alamogordo, NM
1130 KQNA Prescott Valley, AZ	1490 KFFN Tucson, AZ	95.1 K236BH Kingman, AZ (2)	104.7 XHCNE Cananea, SO
1130 XEHN Nogales, SO		98.7 KMVP-FM Phoenix, AZ	104.9 K285DL Tucson, AZ (4)
1230 KATO Safford, AZ		99.9 K260BL Prescott, AZ (3)	

Relays: 1) KNTR 980, 2) KHKE 103.3, 3) KQNA 1130, 4) KFFN 1490

COLORADO ROCKIES English: Jack Corrigan, Jerry Schemmel, Spanish: Javier Olivas, Salvador Hernandez, Carlos Valdez, Web: rockies.com

AM	1240 KFBC Cheyenne, WY	1450 KVOW Riverton, WY	101.7 KSKE Eagle, CO
610 KCSR Chadron, NE	1260 KPOW Powell, WY	1470 KKTY Douglas, WY	101.9 K270AL Granby, CO (2)
630 KHOW Denver, CO (backup)	1290 KOWB Laramie, WY	FM	102.3 KSPK Walsenburg, CO
730 KLOE Goodland, KS	1320 KFNZ Salt Lake City, UT	87.7 KSHW-LP Sheridan, WY	103.1 KYDT Sundance, WY
850 KOA Denver, CO (primary)	1340 KTMM Grand Junction, CO	94.5 KCGC Merino, CO*	106.1 KNFO Basalt, CO
930 KRKY Granby, CO	1350 KCCY Pueblo, CO	95.5 K238AB Steamboat Springs, CO	107.3 KQZR Hayden, CO
1010 KSIR Brush, CO	1440 KRDZ Wray, CO	(1)	
1150 KNRV Westminster, CO	1450 KLMX Clayton, NM	97.5 KLMX-FM Clayton, NM	
1240 KEAU Elko, NV	1450 KBFS Belle Fourche, SD		

Relays: 1) KQZR 107.3, 2) KRKY 930, * denotes list has calls as KRFD

SAN DIEGO PADRES English: Ted Leitner, Don Orsillo, Jesse Agler, Spanish: Eduardo Ortega, Web: padres.com

860 XEMO Tijuana, BCN (Spanish)

1090 XEPRS Rosarito, BCN (English)

In the next edition, we'll get started on the NFL network lists. 73 and play hard!



ULTRALIGHT NEWS – Phil Bytheway – 9705 Mary NW – Seattle WA 98117-2334
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August 2016 Rockwork 4 DXpedition Loggings and MP3's Gary DeBock

From August 5-8 a solo DXpedition was conducted from the Rockwork 4 ocean cliff near Manzanita, Oregon. Since this was supposedly a "family vacation" the hours of DXing were limited, and only a couple of large FSL antennas (17" and 15") could be fit inside our crammed Toyota Corolla. Despite this the DU-DXing propagation was very favorable to both New Zealand and other areas, providing results superior in certain aspects to those observed during the 7-day July DXpedition conducted with Tom, Nick and the Japanese visitors.

High points were a breakout session from the rare low-band Kiwi 531-More FM, which had the usual regular 531-PI on the run for 90 minutes on August 5th. 558-Fiji made a surprise appearance at a good level on August 8th, while a 558 DU English station was received during long-range Australian conditions on August 6th (after 558-6WA was received by Chuck, Tom and I last year, at this site). The 2 kW Kiwi station 1026-Newstalk ZB was received for the first time on FSL antennas at this cliff, while the big gun Kiwis on 657, 702 and 1035 pounded in at legendary levels when NZ propagation was enhanced. Not everything was perfect, however – although the low-powered Kiwi stations on 531, 936 and 1026 were logged the ones on 576, 585 and 828 ended up MIA – most likely because of the lack of time to track them down on a single FSL during exceptional Kiwi propagation. The absence of the Perseus-SDR DXers was also keenly felt as mysteries like the 558 station were tough to solve without multiple parallel network recordings. Overall the trip was highly enjoyable, though, and the early August propagation was every bit as thrilling as what we enjoyed together a year ago at this plunging cliff site.

The following stations were all received on a 7.5" loopstick CCrane Skywave Ultralight portable inductively coupled to a tuned 17" FSL antenna, with the exception of the 531 stations and 558-Fiji (which were received on a 15" FSL antenna). Stations which reached an S9 level during the MP3 recording are identified with a double asterisk (**).

- 531 **AUSTRALIA**, 4KZ, Innisfail, 5 kW. Presumed the one with classic pop format at 1220 and mention of Australia during Rio Olympic report at 1241 on 8/8. Only dominant on this one day <https://app.box.com/s/jxtn7jbremaounjwyw6m8tmqdpxm108>
<https://app.box.com/s/76ggqtlmruka5izerwaxi0860evt9ceu>
- NEW ZEALAND**, 531 PI, Auckland, 5 kW. Samoan language broadcaster struggled against Kiwi co-channel More FM for most of the trip, but was fairly healthy with female Samoan speech at 1212 on 8/6 <https://app.box.com/s/vzst8cfxel3v7jiieun93qc7ipmbylsi>
- NEW ZEALAND**, More FM, Alexandra, 2 kW. Rare Kiwi urban rock broadcaster with typically short male-voiced ID at 1248 (first MP3), then very short female voiced ID at 7 seconds into the second MP3 at 1259 on 8/5 – followed by the station's typical hip-hop rock which builds up to a pretty strong level. Dominant over Kiwi co-channel PI for most of the DXpedition <https://app.box.com/s/mhcl5y83cchzd5ko8nd4azzhrptfbg92>
<https://app.box.com/s/au14qacc2juzbybnlokcecywmgwnwpp9i>
- 558 **FIJI**, Radio Fiji One, Naulu, 10 kW. Faded in to a pretty good level at the end of the last (rain-soaked) session at 1312 on 8/8. Stuck around for about 10 minutes on the backup 15" FSL <https://app.box.com/s/gc97814rh1pcgl085imqqa95omeh71ot>
<https://app.box.com/s/srj6r0hh0m2hp9kt72b9l691svvwyrvy>
- UnID-DU**. ABC-sounding DU English station received during exceptional Australian conditions at 1251 on 8/7. As the sole ABC station 6WA in Western Australia is a strong possibility (received here last year at this site, with the same equipment). <https://app.box.com/s/jt652eltg5564enerq1rsxsgtj2k084u>
Although not a concurrent parallel recording, this MP3 of 594-3WV (another ABC LR network station) recorded eight minutes earlier apparently features the same male announcer with the same speaking style <https://app.box.com/s/gwotnojnaxay901sd78yi3zxunvqqv1p>
- 567 **NEW ZEALAND**, Wellington, Radio NZ National, 50 kW. Usually audible at an anemic level on most mornings, it rarely matched the signal level of either the 675 or 756 RNZ parallel stations. The new antenna seems to be somewhat of a transoceanic dud
<https://app.box.com/s/ft8ck75x5zg3f4h6drnfav4olx31as4d>
- 576 **AUSTRALIA**, 2RN, Sydney, 50 kW. Heard on all four days (even during exceptional Kiwi conditions), although usually at modest strength with its varied music programs <https://app.box.com/s/wyn99vt0jtu1c2xer9dijgt7n5r2vh5w>
- 585 **AUSTRALIA**, 7RN, Hobart, 10 kW. Pretty good signals from this Tasmanian RN network station on two out of four days, identified by the parallel with 792-4RN at 1305 on 8/6 <https://app.box.com/s/6wabltmvjz92bxijyq8bnlnpp6epej3>
- UnID-DU**. Weak DU English station not parallel with 576 (ie not 7RN) nor 603 (ie not Radio Ngati Porou) at 1254 on 8/6. Most likely 2WEB in Bourke
<https://app.box.com/s/s4ircnczej3rijxg7r7v0q1vchd3khs3>
- 594 **AUSTRALIA**, 3WV, Horsham, 50 kW. Dominating the Kiwi co-channel Star network during favorable Australian propagation, this recording at 1243 on 8/7 features some Star music accompaniment (and apparently the same male ABC LR network announcer as the 558 UnID listed above)
<https://app.box.com/s/2p7lnkt7cpbd2aqifhi2tqfegi2awxcr>
- NEW ZEALAND**, Star, Timaru/Wanganui, 5/2 kW. All alone with modest level Christian music //657 at 1325 on 8/5. Oddly enough it seemed to get a boost whenever co-channel 3WV was on the frequency <https://app.box.com/s/zumo4umpmxti1gozcxkrnh8u1nqcih4>
- 603 **NEW ZEALAND**, Manukau, Radio Waatea, 5 kW. Maori language station generally had decent signals, but not up to the level of its 2.5 kW parallel 765-Kahungunu <https://app.box.com/s/tlqnmjsqj3ks992mds97ihl9s8x84nc3>
- 639 **AUSTRALIA**, 5CK, Port Pirie, 10 kW. Female-voiced LR network announcer (//891) prevailing over apparent commercial co-channel (2HC?) and mystery electrical noise at 1312 on 8/6 <https://app.box.com/s/abcc0crvz6idkhdmd29gyxtlzkpeill2n>
- 657** **NEW ZEALAND**, Star, Wellington/Tauranga, 50/10 kW. Christian hymn broadcasting network had excellent signals during Kiwi-enhanced propagation (such as at 1246 on 8/7), and was a convenient parallel signal for network stations on 594 and 963
<https://app.box.com/s/l4gzyq89yg5o127hhaompq756e9gq4xz>

- 675 **NEW ZEALAND**, RNZ National, Christchurch, 10 kW. Usually stronger than its 50 kW parallel 567-RNZ signal on all four days, it was occasionally joined by a weak co-channel during favorable Australian propagation. This good-level signal was at 1320 on 8/7 <https://app.box.com/s/8fcq8e1g7jq5fru62vpiemzgtujp13x>
- 684 **NEW ZEALAND**, Gisborne, Radio Rhema, 5 kW. The discontinued Gisborne location transmitter has apparently been moved to Eastland, and is now somewhat stronger than before. This Kiwi weather report and Bible reading at 1303 on 8/7 was typical <https://app.box.com/s/i8o561cza8myntqlq4psdp1iy9s9tmro>
- 702 **AUSTRALIA**, 2BL, Sydney, 50 kW. Usually getting plastered by the Kiwi big gun Magic, the Oz big gun rarely had a clear frequency. One such unusual time was at 1237 on 8/6 <https://app.box.com/s/89xk6k2terhtnlia92vkqinvvthrrcus7>
- ** **NEW ZEALAND**, Magic, Auckland, 10 kW. Pounding in with monster signals during enhanced Kiwi propagation, this oldies broadcaster had the Oz big gun 2BL on the run all four days. This Motown classic (with a thunderous ID) seriously tested the crunch resistance of my Ultralight radio <https://app.box.com/s/1kmy738awm8pl70ht0vmsm6rrvswijb6>
- 738 **FRENCH POLYNESIA**, Papeete, Radio Première Polynésie, 20 kW. Not quite as overpowering as during the July DXpedition, but still pretty potent. This typical R&B music was received at 1317 on 8/6 <https://app.box.com/s/01jinpj8ug23cou0fypsnu4k5orjfr6p>
- 756 **NEW ZEALAND**, RNZ National, Auckland, 10 kW. Surprisingly strong despite being only 70 miles (and 6 kHz) away from the 50 kW pest 750-Portland, this RNZ outlet obviously got a major boost from the splatter-reducing cliff, ending up as the strongest overall RNZ frequency during the four days. This potent signal at 1315 on 8/7 was typical <https://app.box.com/s/jdii2zbb0m6w5fvb7mn6m48r9o42hyx>
- 765 **NEW ZEALAND**, Radio Kahungunu, Napier-Hastings, 2.5 kW. The strongest of the Maori network stations overall, this low-powered overachiever was usually fairly potent with its mix of Maori and Motown music, such as at 1243 on 8/5 <https://app.box.com/s/fdzx6r6x4aoz50nv0h2t40613hbnqlaq>
- 774 **AUSTRALIA**, 3LO, Melbourne, 50 kW. Oz big gun dominated the frequency on most days, with the Kiwi Radio Sport a poor second. This strong sports broadcast at 1227 on 8/6 includes a weak female-voiced foreign language co-channel at the end of the recording – maybe the Philippines? <https://app.box.com/s/qjjiqpnfcne0qu03ul9pgmb9a521rr38>
- NEW ZEALAND**, Radio Sport, New Plymouth, 5 kW. Not much of a factor during this DXpedition, typically with weak relays of Fox Sports Network way under 3LO.
- 792 **AUSTRALIA**, 4RN, Brisbane, ABC National, 25 kW. Fighting it out with the Kiwi Radio Sport on most mornings, it occasionally had a clear frequency, such as during this 585-7RN parallel recording at 1305 on 8/6 <https://app.box.com/s/o8f3tzrrni3g5ma518jh2d2qf2nb4btb>
- NEW ZEALAND**, Radio Sport, Hamilton, 5 kW. Usually having the edge over 4RN with its Yankee-accented relays of Fox Sports Network, as at 1315 on 8/5 <https://app.box.com/s/d20n837fry6e8th43pq70pf4dtonxuhu>
- 891 **AUSTRALIA**, 5AN, Adelaide, 50 kW. Missing in action for most of the trip except for exceptional Australian propagation on 8/6, when it was weak at best.
- 936 **NEW ZEALAND**, Chinese Voice, Waiulu, 1 kW. A prime target during exceptional Kiwi propagation, this low-powered ethnic station came through with male Chinese speech at 1302 on 8/5 <https://app.box.com/s/cu28ghvb4f91htkvr6sqkl006zxdbjlb>
- 963 **NEW ZEALAND**, Star, Christchurch, 10 kW. Not one of the stronger Star frequencies, but strong enough to confirm the 657 parallel with its Christian music at 1250 on 8/5 <https://app.box.com/s/xbzft5pu7rhuza6sr2a8z2uu9gr0hn>
- 1008 **NEW ZEALAND**, Newstalk ZB, Tauranga, 10 kW. Usually buried in 1010 Spanish splatter, its signals were the weakest in recent memory.
- 1017 **UniD-DU**. A determined search for Tonga at 1058 on 8/6 resulted in only a few ghostly seconds of female foreign language speech before an early (for late Saturday night) sign off. Although the voice apparently matches that in other Tonga recordings it's way too weak to claim a logging <https://app.box.com/s/f6zr86ke7312qdm26hvx1wg1mrv92mv6>
- 1026 **NEW ZEALAND**, Newstalk ZB, Kaitiā, 2 kW. Heard for the first time with an FSL antenna, this low-powered Kiwi network station was a big surprise //1035 at 1330 on 8/7 <https://app.box.com/s/oaaml2btsettnqu6u9eetrewwt4pithf>
- 1035** **NEW ZEALAND**, Newstalk ZB, Wellington, 20 kW. Along with 702-Magic, this was overall the strongest DU station during the DXpedition. This blistering-level Kiwi ad string was received at 1317 on 8/5 <https://app.box.com/s/qdvv5d0adtclylvyny0igs2gccalerb>
- 1044 **NEW ZEALAND**, Newstalk ZB, Dunedin, 10 kW. Usually fairly strong throughout the trip, although never up to the level of its 1035 parallel. This signal was received during exceptional Kiwi propagation at 1235 on 8/5 <https://app.box.com/s/e3e3zmj0zzberxgkqnjiznba13jeagcr>
- 1386 **NEW ZEALAND**, Radio Tarana, Auckland, 10 kW. Hindu language broadcaster came through with moderate-level speech and music at 1303 on the last day of 8/8, but generally had a rough time with domestic splatter <https://app.box.com/s/t7q3h54qq9a6t7pldnimekha4dmn3mwj>

73 and Good DX, **Gary DeBock** (DXing at the Rockwork 4 ocean cliff near Manzanita, Oregon, USA)



DXPEDITIONS – Compiled by: Phil Bytheway
E-mail: phil_tekno@yahoo.com

ROCKWORKS 4 REPORT
June 26-27-28, 2016
Chuck Hutton

On Saturday the 25th, I picked up Jim Renfrew who was in Portland for a convention. After a week of committee meetings, he needed an escape to the coast. After the usual beautiful drive over the Coastal Range to Nehalem Bay (even more beautiful), we had 3 days of conditions that ended up being average, although signal levels were never as good as they should have been. It took a lot of paralleling of weak signals to establish IDs.

Antenna: 18' x 18' flag with 21 dB preamp.

Receivers: Perseus x 2.

AUSTRALIA

Just a few logs of Australians were written – the big guns and regular guys don't need more logs.

26 June

- 594 3WV, ABC Western Victoria, Horsham. Poor with ABC pips 1200 under Japan.
- 603 2CH or 4RN, Charleville or Nowra. 1200 no pips but poor ABC fanfare.
- 630 4QN, ABC North Queensland, Townsville. 1200 poor with ABC fanfare dominant on the channel over strong Oregon station.
- 639 4MS, ABC Far North, Mossman. Poor 1232 //ABC 774.
- 5CK, ABC North and West, Port Pine. Poor 1230 with ABC fanfare on the half hour.
- 675 2CO, ABC NSW Regional Radio, Corowa. Poor with ABC fanfare 1200.
- 684 2KP, ABC Mid-North Coast, Kempsey. 1244-1246 poor man //ABC 774.
- 738 2NR, ABC North Coast, Grafton. 1234 poor with ABC //774.
- 747 4QS, ABC Southern Queensland, Toowoomba. 1209 poor man //774.
- 774 3LO, ABC Melbourne, Melbourne. 1224 mixing with Japan.
- 864 4GR, Toowoomba. Has to be the poor source of music 1232. Newstalk ZB and Radio Print Handicapped wouldn't have music.
- 891 5AN, ABC Adelaide, Adelaide. 1230 ABC fanfare and news.
- 999 2NB, ABC Broken Hill, Broken Hill. 1235 poor with singing //891 ABC in SA.
- 1017 2KY, Racing Radio, Sydney. 1241 poor, man talking. 1247 man. 1314.
- 1044 t 5CS, Port Pirie. Seems the only candidate 1242 poor or better with man talking not //ZB nor ABC, leaving 5CS.
- 1161 7FG, ABC Northern Tasmania, Fingal. 1227-1228, 1230 and 1245 poor to almost fair with ABC //774.
- 1305 t 5RN, ABC National, Renmark. 1220-1224 very poor bits of a man talking. Seems to be the same man as ABC 891 but I m not 100% sure as they were not both up at the same time.
- 1314 3KY Racing Radio, Wollongong. 1246-1247 poor man talking, //1017 2KY.
- 1512 2RN, ABC National, Newcastle. 1200 poor ABC fanfare, 1214 almost fair with operatic music, 1236 above fair with classical music.
- 1539 Radio Tab, Adelaide. 1225-1228 seems //to horse racing on 1008.
- 1566 3NE, Wangaratta. Apparently the one with woman in English 1241 and Abba 1243

27 June

- 630 4QN, ABC North Queensland, Townsville. Briefly on top 1200 with ABC fanfare.
- 639 4MS, ABC Far North, Mossman. Poor with man talking //ABC but not ABC National so has to be Mossman, 1201. 5CK, ABC North and West, Port Pine. With poor ABC fanfare at 1230 so can only be SA.
- 729 5RN, ABC National, Adelaide. 1230 fair with ABC fanfare.
- 738 2NR, ABC North Coast, Grafton. 1216 poor //ABC 1548.
- 747 4QS, ABC Southern Queensland, Toowoomba. 1226 very poor man //774.
- 837 4RK, ABC Capricornia, Rockhampton. Very poor 1223 never much signal.
- 927 4CC, Zinc 927, Gladstone. 1238 poor music must be Zinc as the other choices are Newstalk ZB and Racing Sport.
- 1062 4TI, ABC Far North, Thursday Island. Fair with woman //ABC 702 at 1230.
- 1521 2QN, Deliniquin. The only candidate for Bee Gees at 1234 and Jefferson Starship at 1241 – not a match with Radio Sport.

28 June

- 639 2HC, Coffs Harbour. 1230 poor with music //531 so this must be 2HC with the SRN network.
- 936 4PB, ABC NewsRadio, Brisbane. 1236 almost fair with ABC Newsradio ID.
- 1125 1228 and 1234 music during a Sport fade, only candidate is 5MU Murray Bridge SA.
- 1314 3KY Racing Radio, Wollongong. 1223-1224 with racing results.

NEW ZEALAND

New stuff! There are a few new stations and a few that had only been heard once over 10 years ago. New: 549 Trackside, 630 RNZ, 693 Sport, 711 Trackside, 873 Newstalk ZB, 945 Newstalk ZB, 954 Coast (I think), 1134 RNZ and 1377 Star.

Heard once before: 720 RNZ, 810 RNZ.

My NZ total to date is either 108 stations or 116 depending on whether you assume both stations in parallel on a frequency were heard, or not. 28 remain unheard, with 14 of them at 1 kW or below.

26 June

- 603 Radio Waatea, Auckland. In every night, sometimes to fair peaks with island/soul music a la 1209.
- 675 RNZ National, Christchurch. 1217 fair music //567.
- 684 Rhema, Gisborne. 1214 poor with man talking //1251. Rhema, Gisborne. 1216-1222 almost fair on peaks.
- 693 Radio Sport, Dunedin. 1224 poor, //792. A new log for me.
- 702 Magic, Auckland. 1220 poor music //738 and 891.
- 711 Wellington, TAB Trackside Radio. New! Poor in some KIRO slop although way less than normal. Musical interlude of My Sweet Lord with same song on 828. 1227.
- 756 RNZ National, Auckland. 1222 poor music //675.
- 765 Radio Kahungunu, Napier-Hastings. 1209 man in Maori parallel to 603.
- 783 Access Radio, Wellington. 1228-1229 poor with talk and music not //ABC so is NZ.
- 792 Radio Sport, Hamilton. Fair man with US accent (Fox Sports) //1503 1216.
- 801 Rhema, Nelson. Poor with religious music //684 1238.
- 819 RNZ National, Tauranga. Poor 1216 and 1228 //675.
- 828 TAB Trackside Radio, Palmerston North. 1223 musical interlude with Green Tambourine, 1229 My Sweet Lord, fair.
- 873 TAB Trackside Radio, Tauranga. 1225 very poor Green Tambourine //the network. New, no sign of Sydney.
- 891 Magic, Wellington. Fair with pop rock 1208.
- 900 Star, Dunedin. 1233 between poor and fair with music //909, and almost as good.
- 909 Star, Napier. 1232 poor+ with modern religious music.
- 918 RNZ National, New Plymouth or Timaru. 1225 poor, //675.
- 927 Newstalk ZB, Palmerston North. 1216 poor, //ZB 1035. Newstalk ZB, Palmerston North. 1227 and 1237 poor with talk //ZB 1035.
- 945 Newstalk ZB, Gisborne. 1241-1242 poor man and woman //1035.
- 954 TAB Trackside Radio, Hamilton. 1224 poor with Green Tambourine musical interlude //828.
- 963 Star, Christchurch. 1238 almost fair //Star network.
- 972 Rhema, Wellington. 1238 poor, //801.
- 1008 Newstalk ZB, Tauranga. 1227 poor //1035.
- 1026 Newstalk ZB Kaitiaki and Whangarei. 1237 and 1242 fair with ads, slight echo.
- 1035 Newstalk ZB Wellington. Fair or better 1229.
- 1044 Newstalk ZB, Dunedin. 1232 fair //ZB net.
- 1053 Newstalk ZB, New Plymouth. Poor 1232-1234 //1035.
- 1062 Radio Sport, Wanganui. 1230 poor with sports talk in American English (Fox Sports).
- 1071 RNZ National, Masterton. 1209 poor //RNZ net.
- 1089 Radio Sport, Palmerston North. Poor 1231 giveaway American accent, //1503.
- 1098 Newstalk ZB, Christchurch. 1241-1243 fair or better with big peak //ZB net.
- 1107 Radio Live, Tauranga. 1223 with poor/fair ID. Only 1 kW.
- 1116 RNZ National, Nelson. 1242 fair mix of music //RNZ net and Australia.
- 1143 RNZ National, Hamilton. Poor 1223 music //RNZ.
- 1152 Newstalk ZB, Timaru. 1228 poor, woman talking //ZB net.
- 1161 Te Reo Irirangi o te Upoko o te Ika, Wellington. Poor 1229 now parallel to 765.
- 1179 Radio Ake, Auckland. 1228 poor/fair old US R&B.
- 1206 TAB Trackside Radio, Dunedin. 1226 poor with My Sweet Lord musical interlude //828 et al.
- 1215 Newstalk ZB, Kaikohe. 1234 poor+, //ZB net.
- 1224 TAB Trackside Radio, Invercargill. 1224 poor with Green Tambourine interlude //828.
- 1251 Rhema, Auckland. 1217 poor, //684.
- 1287 Newstalk ZB, Greymouth. 1211 poor, //ZB 1035.
- 1296 Newstalk ZB, Hamilton. 1219 and 1227 poor, //ZB net.
- 1377 Radio Sport, Levin. 1250 poor-fair with man talking in American English //1503. Star, Dunedin. 1238 very poor music seems //Star.
- 1386 Radio Tarana, Auckland. 1243-1244 fair with Indian music.
- 1458 RNZ National, Westport. 1213 poor music //RNZ 756.
- 1503 Radio Sport, Wellington. 1234 and 1242 rising above a fair level with usual Fox Sports.

27 June

- 549 TAB Trackside Radio, Napier-Hastings. 2322 poor musical interlude //828.
- 567 RNZ National, Wellington. Above fair 1211.
- 630 RNZ National, Napier-Hastings. A surprise 1213 when I noticed (easily) a woman singing with guitar, easily paralleled to 567.
- 657 Star, Wellington. 1218 and 1226 fair+ with religious music.
- 711 TAB Trackside Radio, Wellington. 1211 in non-murderous KIRO slop (unusual) with musical interlude //828. New.
- 720 RNZ National, Invercargill. 1212 same song as heard on 630 was poor but sure on 720. Back at 1228 with semi-reggae. New, NZ station 100 in the last 2 DXpeditions (2014 + this one) I have analyzed.
- 738 Magic, Christchurch. 1218 poor pop music mixing with Tahiti, //891.

765 Radio Kahungunu, Napier-Hastings. 1208 and 1214-1216 better than fair with Maori music.
774 Radio Sport, New Plymouth. Poor 1223 //792.
792 Radio Sport, Hamilton. Fair or better 1238 with US sports (Fox) //1503. Again at 1245.
801 Rhema, Nelson. 1208 poor. //684.
810 RNZ National, Dunedin. 1211 27 poor under KGO //675, same woman singing with guitar as heard on other RNZ stations.
819 RNZ National, Tauranga. Poor+ 1210 same woman and guitar as 810.
828 TAB Trackside Radio, Palmerston North. 1219 fair or better with horse race news. Again 1242.
846 Newstalk ZB, Masterton. Maybe. 1219 Very poor man maybe //ZB but can't be sure.
855 Rhema, Hamilton. Poor 1222 //684.
864 Newstalk ZB, Invercargill. 1231-1232 poor with man //ZB net.
891 Magic, Wellington. Fair 1214-1216 Spooky followed by Bobby Darin. Even better 1225.
900 Star, Dunedin. Poor, almost fair on top of Maui, //909 1218.
909 Star, Napier. 1222 fair+, best Star on the band.
918 RNZ National, New Plymouth or Timaru. 1242-1243 //RNZ net.
927 Newstalk ZB, Palmerston North. 1244 a little better than poor, //ZB net.
936 Chinese Voice, Waiuku. 1238-1239 fair Chinese and modern pop Chinese music.
945 Newstalk ZB, Gisborne. 1239 poor and difficult to //with ZB net.
954 Coast, Dunedin. 1210-1213, 1224 and 1239 poor music under TAB Trackside. Can't be the one Aussie with its talk format. New. TAB Trackside Radio, Hamilton. 1242 poor+ with horse talk.
981 RNZ National, Kaikohe. 1222 poor+, //567 with woman singing.
Star, Timaru. 1238 poor bit of man //star 909.
1017 Newstalk ZB, Christchurch. 1209 and 1214 poor, man talking //ZB 1035.
1035 Newstalk ZB, Wellington. Leader of the pack and best DU 1205-1206, 1216, 1243 and 146 fair+ or good-. Local ads at 1246.
1044 Newstalk ZB, Dunedin. 1203 fair, //ZB net.
1053 Newstalk ZB, New Plymouth. 1245 fair ZB ads.
1071 TAB Trackside Radio, Ashburton. 1240 and 1242 poor man //828.
1089 Radio Sport, Palmerston North. 1230 poor, //1503.
1098 Newstalk ZB, Christchurch. Fair 1234.
1107 Radio Live, Tauranga. 1234 and 1241-1242 with teletalk.
1125 Radio Sport, Napier-Hastings. 1243 fair with man //1503, only 1 kW.
1134 RNZ National, Queenstown. 1236 poor, //567.
1143 RNZ National, Hamilton. 1213 almost fair. //567.
1152 Newstalk ZB, Timaru. 1237-1238 man at poor level //ZB net.
1161 Te Reo Irirangi o te Upoko o te Ika, Wellington. 1211 p and 1221 almost fair with Maori program //765.
1197 Newstalk ZB, Wanganui. 1224 and 1239 poor, //1035.
1206 TAB Trackside Radio, Dunedin. Not quite fair 1234 with musical interlude //828.
1215 Newstalk ZB, Kaikohe. 1232 poor+, //ZB net.
1224 TAB Trackside Radio, Invercargill. 1211 and 1235 poor musical interludes //828.
1251 Rhema, Auckland. 12133 poor with man //684.
1278 Newstalk ZB, Napier-Hastings. 1237 poor woman //ZB net.
1323 t Coast, Hawera. 1226 and 1229 poor music seems Coast style (light).
1332 Radio Sport, Auckland. 1229 poor with man talking //1503.
1368 Radio Live, Napier-Hastings. 1250 poor man and woman //1107. Only a tiny 1 kW.
1377 Radio Sport, Levin. Poor //1503 1235 //1503.
1458 RNZ National, Westport. 1246-1247 poor //RNZ net.
1476 TAB Trackside Radio, Auckland. 1241 poor with horse race //828.
1494 Star, Hamilton. 1249 and 1251 talk and music poor+, //909.

28 June

531 531 PI, Auckland. 1241-1245 fair with woman in Pacific language.
540 Rhema, Christchurch/New Plymouth. 1233 poor music under CBC is Rhema //1251.
549 TAB Trackside Radio, Napier-Hastings. 1232 poor with woman hitting a high note that punched through, //828.
585 Radio Ngati Porou, Ruatoria. 2327 and 1220-1221 poor, //603.
594 Star, Timaru/Wanganui. 1215-1217 poor, woman singing //909.
684 Rhema, Gisborne. 1248-1249 fair.
693 Radio Sport, Dunedin. 1218 poor, man //792.
711 TAB Trackside Radio, Wellington. 1211 poor. //TAB net.
774 Radio Sport, New Plymouth. 1243 almost fair with Fox Sports.
801 Rhema, Nelson. 1245 poor with sermon-like talk //684.
837 RNZ National, Kaitaia or Whangarei. 1236 and 1238 very poor, seems //918 and 675.
855 Rhema, Hamilton. 1222 poor, man //684.
864 Newstalk ZB, Invercargill. 1235 poor with woman //ZB 1044.
873 Newstalk ZB, Ashburton. 1224 poor with man //ZB 1026.
882 Star, Auckland. 1201 poor with woman //909.
900 Star, Dunedin. 1242 almost equal with Maui with music //909.
909 Star, Napier. 1231-1234 and 1239 fair to almost good, perhaps best DU in the band.
918 RNZ National, New Plymouth or Timaru. 1225 fair to almost good, incredible for a station that almost always is poor.
936 Chinese Voice, Waiuku. 1234-1235 and 1237 fair or better with Chinese pop music.
954 TAB Trackside Radio, Hamilton. 1235-1236 poor with horse talk.
963 Star, Christchurch. Almost good 1232 and fair 1236 //909.
972 Rhema, Wellington. 1232 poor with talk //684.
981 RNZ National, Kaikohe. 1211 poor with woman singing //RNZ net.
1008 Newstalk ZB, Tauranga. Better than fair 1232 with teletalk //ZB net.
1017 Newstalk ZB, Christchurch. 1232 not quite fair, //ZB net.
1026 Newstalk ZB Kaitaia and Whangarei. 1227 and 1235-1236 fair to almost good, sometimes with echo.
1044 Newstalk ZB, Dunedin. 1238-1240 better than fair //ZB net.
1053 Newstalk ZB, New Plymouth. 1226 better than fair //ZB net.
1071 RNZ National, Masterton. 1227 poor+ singing //675.
1098 Newstalk ZB, Christchurch. 1233 and 1239 almost good, //ZB net.
1116 RNZ National, Nelson. 1213 underneath Australia with woman singing who was //RNZ net.
1125 Radio Sport, Napier-Hastings. 1216 poor with man //1503.
Radio Sport, Napier-Hastings 1227 almost fair with American sports talk.
1134 RNZ National, Queenstown. 1227 poor music //675.
1143 RNZ National, Hamilton. 1214 poor with woman singing //RNZ net.
1152 Newstalk ZB, Timaru. 1240 poor with woman //ZB net.
1188 1228-1229 and 1233 poor with man singing not //RNZ nor ABC. That leaves 2NZ Inverell as the only candidate.
1206 TAB Trackside Radio, Dunedin. 1230 and 1236-1237 poor+ with a bit of music then horse results.
1215 Newstalk ZB, Kaikohe. 1240 fair. //ZB net.

- 1224 TAB Trackside Radio, Invercargill. 1213 poor with horse race. 1224 poor+ poor with music //828. 1 kW from the bottom of the South Island.
- 1251 Rhema, Auckland. 1232 fair with music //684.
- 1287 Newstalk ZB, Greymouth. 1243 fair+, //ZB 1035.
- 1296 Newstalk ZB, Hamilton. 1243 poor, //1035.
- 1323 Coast, Hawera. 1241-1242 poor with Coast style music (light).
- 1332 Radio Sport, Auckland. 1241 poor+ sports talk //792.
- 1386 Radio Tirana, Auckland. 1241 better than fair with man talking in Hindi.
- 1458 RNZ National, Westport. 1440 almost fair woman //RNZ net.
- 1494 Star, Hamilton. 1214 poor with man talking //909.

FIJI/HAWAII/NEW CALEDONIA/UNID

- 558 **FIJI**, Radio Fiji One, Domoiviti, Naulu. 1152-1201 6/26 poor with island-ish music. 1200-1232 6/28 Polynesian sounding chanting and island music.
- 670 **HAWAII**, KPUA, Hilo. Good with ID, all alone 1259 6/26. 1159 6/28 good with ID.
- 740 **HAWAII**, KCIK, Kihei. Excellent 1240-1248 6/26 perhaps the easiest Hawaiian.
- 760 **HAWAII**, KGU, Honolulu. 1256 6/26 good with Bloomberg IDs.
- 900 **HAWAII**, KMVI, Maui. Fair with ID 1200 6/26 and good 1230. Dominant.
- 940 **HAWAII**, KKNE, Waipahu. 1246 6/26 very good ID, all alone.
- 1040 **HAWAII**, KLHT, Honolulu. Huge, way on top 1240-1248 6/26. Fair+ ID at 1200 6/27.
- 1110 **HAWAII**, KAOI, Maui. Better than fair with ID at 1300 6/27.
- 1240 **HAWAII**, KEWE, Kahului. Continues to be one of the dominants on the channel: 1240-1248 6/26. 1244 6/26 fair 95.5 FM ID then more church music. 1245:20 mentions of Maui. 1246 back to modern Christian music.
- 1500 **HAWAII**, KHKA, Honolulu. 1259:53 6/26 almost fair with ID.
- 1540 **HAWAII**, KREA, Honolulu. 1239-1240 6/27 seeming Korean, fair.
- 1570 **HAWAII**, KUAAU, Haiku. Almost good with ID 1300 6/26.
- 729 **NEW CALEDONIA**, Radio Nouvelle Calédonie Première, Touho-Popome. No ID but fair in French 1223-1228 6/27.
- 873 **UnID**. Music 1226 6/27 not //TAB Trackside, can't be Sydney's talk or ZB so who?
- 972 **UnID**. 972.043 1226 6/26.
- 1125 **UnID**. Poor music sounds island-ish 1239 6/26, not Sport so maybe Hauraki although they've recently been on 1120 and have classic rock. Or perhaps Nibi-Nibi.
- 1359 **UnID**. Poor music 1233 6/28 that could be adcon or EZL.
- 1368 **UnID**. 1240 6/26 who's on 1368.015?
- 1557 **UnID**. 1234 6/26 on 1557.014.
- 1611 **UnID**. On 1610.913 6/26.

I have prepared a by-frequency version of this report. If you want a copy, please email me at phil_tekno@yahoo.com. Phil B



GEOMAGNETIC INDICES – *Compiled by: Phil Bytheway*
 E-mail: phil_tekno@yahoo.com

Geomagnetic Summary August 1 2016 through August 31 2016

Tabulated from email status daily (K @ 0000 UTC.)

Date	Flux	A	K	Space Wx										
8/ 1	72	3	1	no storms	8/12	95	11	1	no storms	8/23	81	18	5	minor, G1
2	75	16	5	minor, G1	13	91	5	1	no storms	24	78	19	3	minor, G1
3	75	33	3	minor, G1	14	87	4	1	no storms	25	79	11	3	no storms
4	76	18	2	no storms	15	88	4	1	no storms	26	82	6	2	no storms
5	80	16	4	no storms	16	87	6	3	no storms	27	84	5	0	no storms
6	83	14	3	no storms	17	83	9	3	no storms	28	85	3	0	no storms
7	93	12	3	minor, R1	18	82	7	2	no storms	29	88	6	3	no storms
8	96	12	1	no storms	19	81	5	1	no storms	30	100	16	4	no storms
9	92	14	3	no storms	20	78	4	1	no storms	8/31	98	8	3	no storms
10	95	16	3	no storms	21	77	10	3	no storms					
8/11	95	9	3	no storms	8/22	80	5	1	no storms					

Gx – Geomagnetic Storm Level

Rx – Radio Blackouts Level

Sx – Solar Radiation Storm Level



IRCA COUNTRIES LIST – *Bruce Portzer* – 6546 19th Ave NE – Seattle WA 98115
 E-mail: bpportzer@gmail.com
 All times UTC unless noted otherwise

THE 2016 IRCA COUNTRIES LIST
 Compiled by Bruce Portzer, Countries List Chairman

Here is the latest version of the IRCA Countries List. This list was originally developed in the 1960's as a guide for club members in their quest for foreign medium wave targets. It has since been updated periodically. The list is organized into three sections: active, inactive, and deleted countries. For each country, I've listed its continent in brackets, and noted any former or alternate names. Any date restrictions are also noted (such as when the country was formed or ceased to exist). There are also a few instances where I've added comments clarifying a country's status.

A place qualifies for inclusion on the list if it meets one or more of the following criteria:

1. It is internationally recognized as independent, either because it is a member of the United Nations or International Telecommunications Union (ITU), or has diplomatic relations with multiple countries.
2. It has a high degree of internal autonomy. This characteristic can be for historical reasons, such as the various parts of the UK, or established through formal agreement, such as Hong Kong or Macao. A portion of a country may also qualify based on de facto autonomy, even if the parent country does not recognize it as such. Taiwan, for example. This qualification is largely a judgment call based on the amount of self-rule and political stability.
3. It is separated from the rest of the country by at least 200 km of open water (no other islands between it and the mainland), such as Hawaii, or 100 km of land, such as Alaska.
4. It is a colony, dependency, protectorate, or other overseas territory, such as Guam or Gibraltar. These places will only be listed if they currently have a MW radio station, have had one or more stations in the past, or have sufficient residents (permanent or temporary) to justify broadcast facilities. As a result, this list doesn't include most of the small islands and other uninhabited territories that appear on the ARRL list.
5. It is under international or other special administrative control, such as Antarctica.
6. It has historically been considered a separate DX "country", even though it doesn't seem to meet any of the above criteria ("We do it that way because that's the way it's always been done").

Country list junkies are welcome to examine the following four lists. Each has its own set of criteria, resulting in some interesting differences and similarities.

- The **ARRL Country List**: This list is used mainly for issuing DX Century Club awards. The criteria are well-thought out, but hotly debated in the ham community. It includes a large number of obscure uninhabited specks of land that are otherwise unnoticed.
- The **NASWA Radio Country List**: This is a list of countries with active shortwave broadcasters, past and present.
- The **Travelers' Century Club List**: This organization gives certificates to those who have visited at least 100 countries. The most recent list has 350 places listed.
- **How many countries are there?** This list analyzes several sources, including the ARRL/DXCC and TCC lists, and concludes that there could be anywhere from 191 to 493 countries, depending on what you count.

Any comments or questions on the list should be addressed to portzerbt@gmail.com.

ACTIVE COUNTRIES

The following countries currently have or are believed to have active medium or long wave broadcast stations.

Afghanistan [AS]
Alaska [NA]
Albania [EU]
Algeria [AF]
Andaman and Nicobar Islands (part of India) [AS]
Angola [AF]
Anguilla [NA]
Antigua and Barbuda [NA]
Argentina [SA]
Armenia [AS]
Australia [OC]
Azerbaijan [AS]
Azores [EU]
Bahamas [NA]
Bahrain [AS]
Balearic Islands (part of Spain) [EU] – includes Majorca
Bangladesh (formerly East Pakistan) [AS]
Barbados [NA]
Belgium [EU]
Benin (formerly Dahomey) [AF] – after 8-1-60
Bermuda [NA]
Bolivia [SA]
Bonaire [SA] – became a separate "country" 10-10-10.
Bosnia-Herzegovina [EU] – receptions before 10-15-91 count as Yugoslavia
Botswana (formerly Bechuanaland) [AF]
Brazil [SA]
British Virgin Islands [NA]
Bulgaria [EU]
Cambodia (formerly Kampuchea) [AS] – MW reactivated early 2016
Canada [NA]
Canary Islands [AF]
Ceuta (part of Spain, located in Morocco) [AF]
Chad [AF] – One AM, operates sporadically
Chile [SA]
China [AS]
Christmas Island (located in Indian Ocean) [OC]
Colombia [SA]
Cook Islands [OC] – The North Cook Islands are far enough from South Cooks to qualify as a separate country, but there are no known stations there
Corsica [EU]
Costa Rica [NA]
Crete (part of Greece) [EU]
Croatia [EU] – after 6-26-91
Cuba [NA]
Curacao [SA] – after 10-10-10. Earlier logs count as Netherlands Antilles
Cyprus [AS]
Czech Republic [EU] – after 1-1-93, earlier loggings count as Czechoslovakia
Denmark [EU] – Inactive on MW as of 6-30-11, but still active on LW
Djibouti (formerly French Somaliland, Afar and Issas) [AF]
Dodecanese Islands (part of Greece, includes Rhodes) [EU]
Dominican Republic [NA]
Ecuador [SA]
Egypt [AF]
El Salvador [NA]
England [EU]
Eritrea [AF] – became part of Ethiopia 11-14-62, then gained independence 9-15-93
Estonia [EU]
Ethiopia [AF]
Faroe Islands [EU]
Fiji [OC]
France [EU]
French Polynesia (aka Society Islands, includes Tahiti) [OC]
Gabon [AF] – after 8-17-60
Georgia [AS]
Germany [EU] – Formerly German Federal Republic (West Germany). GDR and West Berlin were added in 1990. MW may cease soon.
Gibraltar [EU]
Greece [EU]
Greenland (aka Kalaallit Nunaata) [NA] – MW reactivated Fall 2014
Guadeloupe [NA]
Guam [OC]
Guantanamo Bay Naval Base [NA]
Guatemala [NA]
Guernsey (British Crown Dependency) [EU]
Guinea [AF]
Guyana (formerly British Guiana) [SA]
Haiti [NA]
Hawaii [OC]

Honduras [NA]
 Hong Kong [AS] – Special Administrative Region of China with a high degree of autonomy
 Hungary [EU]
 Iceland [EU] – No regular MW operations at present but has two longwave transmitters
 India [AS]
 Indonesia [AS]
 Iran [AS]
 Iraq [AS]
 Ireland [EU]
 Isle of Man (self-governing British Crown Dependency) [EU]
 Israel [AS]
 Italy [EU]
 Japan [AS]
 Jersey (British Crown Dependency) [EU]
 Jordan [AS]
 Kaliningrad (noncontiguous part of Russia) [EU]
 Kazakhstan [AS]
 Kenya [AF]
 Kiribati (formerly Gilbert Islands) [OC]
 Korea, North (Democratic People's Republic of Korea, DPRK) [AS] – loggings from before the Korean War in the early 1950s count as South Korea.
 Korea, South (Republic of Korea) [AS]
 Kuwait [AS]
 Kyrgyzstan (formerly Kirghiz SSR, Kirgizia) [AS]
 Lakshadweep (aka Laccadive Islands) (part of India) [AS]
 Laos [AS]
 Latvia [EU]
 Lebanon [AS]
 Lesotho (formerly Basutoland) [AF]
 Libya [AF]
 Lithuania [EU]
 Luxembourg [EU] – MW ceased at end of 2015. LW still active?
 Macedonia [EU] – after 9-8-91, earlier loggings count as Yugoslavia
 Madagascar (aka Malagasy Republic) [AF] – may be inactive on MW
 Madeira [AF]
 Malawi (formerly Nyassaland) [AF]
 Malaysia, East [AS] – after 9-16-63, consists of Sabah and Sarawak
 Malaysia, West [AS] – after 9-16-63, consists of peninsular Malaysia
 Maldives [AS]
 Malta [EU]
 Mauritania [AF] – after 6-20-60
 Marshall Islands [OC]
 Mayotte (aka Mahore) [AF]
 Melilla (part of Spain, located in Morocco) [AF] – See Morocco listing in WRTH
 México [NA]
 Micronesia, Federated States of (formerly Eastern Caroline Islands) [OC]
 Moldova (formerly Moldavia) [EU]
 Mongolia [AS]
 Morocco [AF]
 Mozambique [AF]
 Myanmar (formerly Burma) [AS]
 Nepal [AS]
 Netherlands [EU]
 New Caledonia [OC]
 New Zealand [OC]
 Nicaragua [NA]
 Nigeria [AF]
 Norfolk Island [OC]
 Northern Ireland (part of UK) [EU]
 Northern Mariana Islands [OC]
 Norway [EU] – Still active on LW, but no more MW
 Oman [AS] – includes Masirah Island and Musandam Peninsula
 Pakistan (formerly West Pakistan) [AS]
 Palau (aka Belau, formerly Western Caroline Islands) [OC]
 Panamá [NA]
 Papua New Guinea [OC]
 Paraguay [SA]
 Péru [SA]
 Philippines [AS]
 Poland [EU]
 Portugal [EU]
 Pridnestrovia (aka Transnistria, Trans-Dniester) [EU] – A self-governing independent region of Moldova. Considers itself an independent country though not recognized as such by the Moldovan government or most international organizations
 Puerto Rico [NA]
 Qatar [AS]
 Réunion [AF]
 Rodrigues Island [AF] – Part of Mauritius, separated by 500+ km of ocean
 Romania [EU]
 Russia, Asiatic [AS]
 Russia, European [EU] – the Ural Mountains are the dividing line between Asia and Europe
 Samoa (Formerly Western Samoa) [OC]
 San Andres and Providencia (part of Colombia) [NA]
 Sao Tome and Principe [AF]
 Sardinia (part of Italy) [EU]
 Saudi Arabia [AS]
 Scotland [EU]
 Serbia [EU] – Montenegro declared independence from Serbia/Yugoslavia 6-3-06. Earlier loggings of Serb stations count as Yugoslavia
 Seychelles [AF]
 Slovakia (aka Slovak Republic) [EU] – after 1-1-93, earlier loggings count as Czechoslovakia

Slovenia [EU] – after 6-26-91, earlier loggings count as Yugoslavia
 Solomon Islands [OC]
 South Africa [AF] – includes the homeland republics
 South Sudan [AF] – split off from Sudan and became independent as of 7-9-11
 Spain [EU]
 Sri Lanka (formerly Ceylon) [AS]
 Sudan [AF]
 Svalbard (Spitzbergen) [EU]
 Syria [AS]
 Taiwan (Republic of China) [AS] – includes Quemoy and Matsu
 Tajikistan [AS]
 Tanzania (formerly Tanganyika) [AF]
 Thailand [AS]
 Tonga [OC]
 Trinidad and Tobago [SA]
 Tunisia [AF]
 Turkey [AS]
 Turkmenistan (formerly Turkmen SSR) [AS]
 Turks and Caicos Islands [NA] – may be inactive
 Tuvalu (formerly Ellice Islands) [OC] – after 1-1-76
 Uganda [AF]
 Ukraine [EU] – The Crimean Peninsula is still considered part of Ukraine
 United Arab Emirates [AS] – Includes Abu Dhabi, Dubai, Sharjah, et al
 United States of America [NA]
 Uruguay [SA]
 Vanuatu (formerly New Hebrides) [OC]
 Vatican City [EU] – Vatican Radio's transmitter site is an extraterritorial part of The Vatican
 Venezuela [SA]
 Vietnam [AS] – includes pre-unification receptions of North Vietnam
 Virgin Islands (US) [NA]
 Wales [EU]
 Yemen [AS] – after 6-22-90, formed when Yemen Arab Republic merged with People's Democratic Republic of Yemen

INACTIVE COUNTRIES

The following countries currently do not have medium wave stations, based on information in the World Radio-TV Handbook (WRTH), Euro-African Medium Wave Guide (EMWG), and/or Pacific Asian Log (PAL). Some have had MW stations which are no longer on the air. A few have never, to the best of my knowledge, had a MW station but are listed because they have sufficient permanent or transient population to justify a MW station. The list does not include places with little or no permanent population that have never had a broadcast station.

Abkhazia [AS] – break away region of Georgia, has diplomatic relations with several countries
 Aland Islands [EU] – An autonomous region of Finland. A MW station has been planned for many years but is not currently on the air
 Andorra [EU] – Two high powered MW stations operated here until early 1980s
 Antarctica (and nearby island groups) [OC] – SW/FM only, has had MW in the past
 Aruba [SA] – Now FM only. Receptions before 1-1-86 count as Netherlands Antilles
 Ascension Island [AF] – now FM/SW only
 Austria [EU] – MW operations ended 2009
 Belarus (formerly Byelorussia) [EU] – LW/MW operation ceased 3/31/16
 Belize (formerly Br Honduras) [NA] – FM only
 Bhutan [AS] – SW/FM only
 British Indian Ocean Territory (aka Chagos Islands, includes Diego Garcia) [AS]
 Brunei Darussalam [AS] – now FM only, MW went inactive in 2011
 Burkina Faso (formerly Upper Volta) [AF] – after 8-5-60 – FM only
 Burundi [AF] – FM/SW only
 Cameroon [AF] – FM only
 Cape Verde [AF] – FM only
 Cayman Islands [NA] – FM only
 Central African Republic [AF] – after 8-13-60, has plans to reactivate MW/SW
 Chatham Islands [OC] – FM only
 Christmas Island (Part of Kiribati) [OC]
 Cocos-Keeling Islands [OC] – FM only
 Comoros [AF] – FM only
 Congo, Democratic Republic of the (formerly Zaire, Belgian Congo) [AF] – FM/SW only
 Congo, Republic of [AF] – after 8-15-60, now only FM/SW
 Cyprus, British Sovereign Bases on [EU] – now FM only, includes Akrotiri and Dhekelia
 Cyprus, Turkish Federated State [AS] – a portion of northern Cyprus
 Dominica [NA] – Currently FM only
 Easter Island (aka Isla de Pascua, Rapa Nui) [OC] – MW operation ended 2006, FM only
 Equatorial Guinea (Rio Muni, mainland portion) [AF] – SW/FM only
 Equatorial Guinea (Bioko, offshore island) [AF] – FM only
 Falkland Islands (aka Islas Malvinas) [SA] – MW ceased circa 2013
 Fernando de Noronha [SA] – Island group in Atlantic, part of Brazil, FM only
 Finland [EU]
 French Guiana [SA] – no known MW operations at the moment
 Galapagos Islands (part of Ecuador) [SA] – MW/SW ceased some time ago, now FM only
 Gambia, The [AF] – FM only
 Ghana (formerly Gold Coast) [AF] – FM only
 Grenada [NA]
 Guinea-Bissau (ex-Portuguese Guinea) [AF]
 International Waters [OC] – Stations have operated aboard ships near Western Europe (many), Israel (Voice of Peace, 1973-1993), New Zealand (Radio Hauraki, late 1960's) and the Northeastern US (Radio Newyork International, late 1980's). Currently there are no known regular operations from International Waters.
 However, the US government has the ability to broadcast from aircraft over international waters.
 Ivory Coast (Côte d'Ivoire) [AF] – after 8-7-60 – FM only
 Jamaica [NA] – FM only
 Johnston Island [OC] – inactive after 1977
 Kosovo [EU] – Former Serbian province, under UN-supervised administration 1999-2008. Independent country since 17 Feb 2008
 Lampedusa [EU] – Italian island near Tunisia. No known MW, possibly some FM
 Liberia [AF] – SW/FM only
 Lord Howe Island [OC] – now FM only
 Liechtenstein [EU] – FM only
 Macao [AS] – now FM only, MW went silent circa 2014

Mali [AF] – after 6-20-60 – FM/SW only
 Martinique [NA] – Very likely inactive, but MW station still listed on 1310
 Midway Island [OC] – FM only, MW has been inactive for many years
 Monaco [EU] – MW transmitters are actually in France
 Montenegro [EU] – after 6-3-06. Earlier loggings count as Yugoslavia. FM only.
 Montserrat [NA] – FM Only. All MW transmitters were destroyed by volcanic activity in the 1990s.
 Namibia (formerly SW Africa) [AF] – FM only
 Nauru [OC] – FM only
 Niger [AF] – after 8-3-60
 Niue [OC] – FM only
 Ogasawara (aka Bonin and Volcano Is, includes Iwo Jima) [AS] – no known MW outlets but had them in the distant past
 Palestine [AS] – after 2/1/99. Includes West Bank and Gaza. Earlier logs count as Israel. FM only.
 Phoenix Islands (part of Kiribati) [OC] – WXLE operated on Canton Island in 1970s
 Pitcairn Island – has FM transmitters, believe it or not
 Rwanda [AF] – SW/FM only
 Saba and Saint Eustasius [NA] – separate country after 10-10-10, FM only
 Saint Barthelémy [NA] – French island near Guadeloupe, FM only
 Saint Martin (French, next to Sint Maarten) [NA] – FM only
 Saharan Arab Republic (aka Western Sahara) (formerly Spanish Sahara, Rio de Oro) [AF] – all known MW transmitters are located in Algeria
 Serbia [EU] – Montenegro declared independence from Serbia/Yugoslavia 6-3-06. Earlier loggings of Serb stations count as Yugoslavia. All MW stations reported silent in early 2016 for financial reasons.
 Sierra Leone [AF] – FM only
 St Helena [AF] – AM was shut down 12/2012, now FM only
 St Kitts and Nevis [NA] – FM only
 St Lucia [NA] – no more MW stations
 Saint Maarten [NA] – after 10-10-10
 St Pierre and Miquelon [NA] – now FM only, MW was eliminated several years ago
 St Vincent and the Grenadines [NA] – MW station currently inactive but may return some day
 Samoa, American [OC] – no more MW Stations
 San Marino [EU] – FM only
 Senegal [AF] – after 6-20-60, now FM only
 Singapore [AS] – eliminated all MW services in mid-1990's
 Somalia [AF] – SW/FM only
 South Ossetia [AS] – breakaway region of Georgia, has diplomatic relations with several countries. No known MW outlets.
 Suriname (formerly Dutch Guiana) [SA] – all MW stations believed to be inactive
 Swaziland [AF] – Currently FM/SW only
 Sweden [EU] – FM only
 Switzerland [EU] – FM only
 Timor Leste (aka East Timor) [AS] – Originally called Portuguese Timor, annexed by Indonesia 12-31-61. Became independent 3-1-00. Both MW stations are inactive.
 Togo [AF] – FM only
 Tokelau [OC] – FM only
 Tristan da Cunha [AF] – FM only
 United Nations HQ [NA] – universally recognized as "neutral" territory, but has no MW activity
 Uzbekistan (formerly Uzbek SSR) [AS] – no known active MW outlets
 Wake Island [OC] – AFRTS station closed down many years ago
 Wallis and Futuna [OC] – FM only, MW operation ended circa 2000
 Zambia (formerly Northern Rhodesia) [AF] – FM/SW only
 Zimbabwe (formerly Rhodesia) [AF] – FM/SW only

DELETED COUNTRIES

The following countries no longer exist, but had or may have had medium wave stations. Some are places that merged with a neighboring country. Others were split into two or more separate countries. The listed dates are when the country ceased to be a separate DX country. Some countries existed between two dates.

Biafra [AF] – 5-30-67 to 1-15-70, otherwise part of Nigeria
 British North Borneo [OC] – 9-15-63 (now part of Malaysia)
 Canal Zone [NA] – 9-30-79 (now part of Panama)
 Czechoslovakia [EU] – 12-31-92 (now Czech and Slovak Republics)
 Danzig [EU] – 9-1-39
 French Equatorial Africa [AF] – 8-16-60 (now Chad, Central African Republic, Gabon, Congo)
 French Indo-China [AS] – 12-20-50 (now Laos, Vietnam, Cambodia)
 French West Africa [AF] – 8-6-60 (now Niger, Ivory Coast, Burkina Faso, Benin, Mauritania, Mali, Senegal, Guinea)
 German Democratic Republic [EU] – 10-3-90 (now part of Germany)
 Goa (Portuguese India) [AS] – 12-19-61 (now part of India)
 Guangdong Peninsula [AS] – 8-14-45 (now part of China)
 Jammu and Kashmir [AS] – 2-24-75 (Northernmost state of India, subject to a border dispute with Pakistan)
 Karelo-Finnish SSR [EU] – 7-15-56 (now part of Russia)
 Leeward Islands [NA] – 2-27-67 (now various island nations)
 Malaya [AS] – 9-15-63 (now part of Malaysia)
 Manchuria (Manchuguo) [AS] – 9-16-63 (now part of China)
 Newfoundland and Labrador [NA] – 3-31-49 (now part of Canada)
 Netherlands Antilles [SA] – Bonaire and Curacao split into separate "countries" 10-10-10
 Okinawa (Ryukyu Islands) [AS] – 5-14-72 (now part of Japan)
 Peoples Dem Rep of Yemen (Aden) [AS] – 5-21-90 (now part of Yemen)
 Ruanda-Urundi [AF] – 7-60 to 6-30-62
 Saar [EU] – 1-3-48 to 12-31-56 (now part of Germany)
 Sarawak [OC] – 9-15-63 (now part of East Malaysia)
 Sikkim [AS] – became part of India 5-16-75
 South Vietnam (Republic of Vietnam) [AS] – 7-1-76 (now part of Vietnam)
 Swan Island [NA] – 8-31-72 (now part of Honduras, home of Radio Americas in mid-1960s)
 Tangier [AF] – 6-30-60 (now part of Morocco)
 Tibet [AS] – 5-30-74 (now part of China)
 Trieste [EU] – 2-10-47 to 5-19-54 (now part of Slovenia and Italy)
 Walvis Bay [AF] – 9-1-94 (former part of South Africa, now part of Namibia)
 West Berlin [EU] – 10-3-90 (now part of Germany)
 Windward Islands [NA] – 6-1-67 (now various island nations)
 Yemen Arab Republic [AS] – 5-21-90 (now part of Yemen)
 Yugoslavia [EU] – Former Yugoslav republics became independent 1991-2006 (see individual country listings for dates).
 Zanzibar [AF] – 6-30-64 (now part of Tanzania)

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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.

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