



# DX MONITOR

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International Radio Club of America

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Seattle deadline for our next issue (V57\_N15) is Monday 12/09/19 1600 PLT – pb

### 2020 Convention

The 2020 IRCA Convention will be in Anaheim CA on September 10-12 2020. Details will be appearing shortly in the "DX Monitor" and on IRCA website: [www.ircaonline.org](http://www.ircaonline.org). **Mike Sanburn** – Host

### 2019 Convention

The 2019 Seattle DX "Papers" and slides are now uploaded to <http://durenberger.com/dxpage/>. They join papers from other recent conventions. While you're on the NEW site, poke around at some of the other material... with lots more coming.  
Cheers! **Mark Durenberger**

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CHICAGOLAND'S INTERNATIONAL CHOICE  
WPNA 1490 AM



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

DATE OF COLUMN: November 30 Column data span: November 16-30 2019, Data courtesy of [Stationintel.com](http://Stationintel.com), FCC database and member contributions.

### CALL CHANGES

FREQ	OLD CALL	CITY OF LICENSE	NEW CALLS
690	KOAQ	Terrytown, NE	KOLT

### FORMAT, SLOGAN AND SILENT STATUS CHANGES

FREQ	CALL	CITY OF LICENSE	NEW INFORMATION
610	WCEH	Hawkinsville, GA	was ESPN sports, now classic rock, old slogan: "Middle Georgia ESPN", new: "Highway 96"
690	WELD	Fisher, WV	was talk, now Westwood One Classic Hits
710	WUFF	Eastman, GA	adds slogan: "Praise 710"
860	WOAY	Oak Hill, WV	was silent, back on with religious teaching
920	WKVA	Lewistown, PA	old slogan: "WKVA 100.3", new: "Gold Hits WKVA 920AM 100.3FM"
1090	WILD	Boston, MA	now silent
1110	KTEK	Alvin, TX	was business news, now Relevant Radio religious teaching, old slogan: "Business 1110", new: "Relevant Radio"
1150	WWDJ	Boston, MA	was Spanish religion, now Relevant Radio religious teaching, old slogan: "Radio Luz", new: "Relevant Radio"
1160	KRDY	San Antonio, TX	was talk, now Relevant Radio religious teaching, old slogan: "Freedom 1160", new: "Relevant Radio"
1190	WAFS	Atlanta, GA	was business news, now Relevant Radio religious teaching, old slogan: "Biz 1190", new: "Relevant Radio"
1220	WLSD	Big Stone Gap, VA	old slogan: "Where Love Sounds Different", new: "Alive 92.5"
1240	KVSO	Ardmore, OK	old slogan: "1240 AM The Sports Animal", new: "107.5FM 1240AM The Sports Animal"
1260	WSDZ	Belleville, IL	was urban gospel, now Relevant Radio religious teaching, old slogan: "Praise 95.1 and 1260", new: "Relevant Radio"
1290	WRPA	Providence, RI	was silent, now news-talk, adds National Public Radio, adds slogan: "The Public's Radio"
1300	KKOL	Seattle, WA	now silent
1320	KOAQ	Scottsbluff, NE	now silent
1350	WEZS	Laconia, NH	old slogan: "WEZS NewsTalk 1350", new: "NewsTalk 103.3"
1380	KXFN	St Louis, MO	was talk, now Relevant Radio religious teaching, old slogan: "The Answer 105.3 FM and 1380 AM", new: "Relevant Radio"
1400	WIEL	Elizabethtown, KY	old slogan: "ESPN Radio", new: "ESPN 106.1"
	KWON	Bartlesville, OK	old slogan: "KWON 1400AM-93.3 FM", new: "KWON AM 1400 FM 93.3"
1430	WDIC	Clincho, VA	now silent (this was a 1430 regular here at night-ye ed)
1440	WDXQ	Cochran, GA	was country, now classic country, old slogan: "96.7 Cochran Country", new: "96 Country"
	WHKZ	Warren, OH	was Salem-The Word in Praise, now Relevant Radio, old slogan: "The Word", new: "Relevant Radio"
	KEXB	University Park, TX	was unknown format, now Relevant Radio religious teaching, adds slogan: "Relevant Radio"
1480	WMDD	Fajardo, PR	was news/talk, now Spanish news-talk
1500	KPGM	Pawhuska, OK	old slogan: "The Sports Animal", new: "The Sports Animal 1500AM 99.1FM"
1540	WBNL	Boonville, IN	was easy listening, now classic country
1550	KMAD	Madill, OK	was silent, now country, adds slogan: "Texoma Country"
1690	KDMT	Arvada, CO	was business news, now Relevant Radio religious teaching, old slogan: "Money Talk 1690", new: "Relevant Radio"

### MEMBER CONTRIBUTIONS

**Dennis Gibson** of Salinas CA sends along the following dated 11/16/19 re KLIV-1590 San Jose CA:

If it doesn't return to the air by 1201 AM on January 29, 2020 KLIV's license will expire. Silent STAs aren't extended. An application to move the transmitter to a new site hasn't been filed. Recently an extremely reliable source told me that neither San Jose State University nor the City of San Jose are interested in acquiring the license. Although it would be free there would be a lot of major expenses involved in getting it back on the air and operating it. A new studio would have to be built and a chief operator (what the FCC used to call chief engineer) hired. The transmitter would have to be diplexed. 24/7 programming would have to be decided upon and paid for. There would be a monthly lease expense to operate from the new location. The power bill would be expensive. I predict that it won't happen. Although already quite wealthy Bob Kieve should have taken the \$1 million that was offered.

**Mike Sanburn** of Bellflower CA sends along the following from **Dennis Gibson** via the IRCA IO Groups dated 11/22/19:

Subject: [irca] License cancelled: 11-8-19: WDAB-1580 Travelers Rest, South Carolina

**Mike Sanburn** sends along the following from **Paul Walker, Jr** of Laramie WY via the IRCA IO Groups dated 11/25/19:

KDDD 800 Dumas, TX will cease the "All Ag All Day" farm format on Thanksgiving Day. The producers of the format had been leasing the signal, some new owners bought KDDD AM and FM awhile back and want to do something different with it I assume. (Just heard that announcement over the air in Laramie WY when tuning past AM 800).

Mike Sanburn sends along the following from Radiolnsight.com dated 12/1/19:

\$7.1 Million Land Sale Leads To Sign-Off Of Two South Florida AMs: By Lance Venta On December 1 2019

Beasley Media Group signed-off Business "Money Talk Radio" 740 WSRB Boca Raton and Brokered Haitian 980 WHSR Pompano Beach FL at midnight on Sunday. WSRB's "Money Talk Radio" branding and programming has been merged into Beasley's Brokered Talk 1470 WWNN Pompano Beach/95.3 W237BD Boca Raton. In addition, WSRB's two translators 96.9 W245BC Lauderdale Lakes and 103.9 W280DU Boca Raton are now rebroadcasting WWNN. The stations serve northern Broward County in the Miami market including Fort Lauderdale and southern Palm Beach County around Boca Raton.

The shutdown of WSRB and WHSR comes as Beasley sells the 24.38 acre tower site of the two stations to the city of Parkland FL for \$7.1 million. The city intends to combine the land with an adjacent 12 acre lot to build a new park.

Totalled my car on November 13<sup>th</sup>. I was rear-ended by a Jeep on the DC Beltway while driving back from a business trip at the Pentagon with a fellow coworker. Luckily no one was injured, but the car was not repairable. Bought a new Ford Fusion 2020 model at a local car dealership on the Monday before Thanksgiving. Took a trip up to Elkton MD for a last fling before we move to Albuquerque in January. Monday 12/2 the move guys are coming to give us an estimate on how much it will cost to move. DX has been a bit slow as I'm concentrating on moving and not radio. Went to my ham radio Christmas banquet today 12/1/19 at a local restaurant, was pretty good. All my sports team lost today, however, oh well. Have a good beginning of December. 73's. Bob Wien



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

**WDXR DEADLINES:** December 6, December 13, December 20, December 27, January 3, January 10, January 17, January 24 and January 31.  
Please use Eastern Local Time.

**REPORTERS FOR THIS ISSUE:**

- (RB) **Rick Barton**-9444 W. Newport-Sun City AZ 85351 **desertmoon\_dxshack@inbox.com**  
Mom's (RIP) RS DX-375, and a 1<sup>st</sup> generation CountyComm GP-5 Ultralight
- (GH) **Glen Hansen**-64985 Olson Road-Deer Island, OR 97054 **gbhansen2@outlook.com**  
JRC NRD 545, Hammarlund HQ 180, R-390A, various longwires, Kiwa loop
- (JCJ) **John Johnson**-2922 S Olivewood, Mesa AZ 85212 **John\_Johnson@prodigy.net**  
SDRplay RSPduo, Icom IC-R75, Wellbrook ALA1530LNP
- (GK) **Glen Kippel**-Yucca Valley CA **gkippel@hotmail.com**  
ICOM R-75 with 10 x 7.5 foot shielded loop, Terk AM Advantage loop
- (JP) **Jon Pearkings**-Edmonton AB **jon@pearkings.com**  
Sangean PR-D15 on batteries with internal 200 mm ferrite bar
- (MS) **Mike Sanburn**-PO Box 1256-Bellflower CA 90707-1256 **mikesanburn@hotmail.com**  
Sangean DT 160
- (DS) **Dan Sys**-3073 – 268<sup>th</sup> Street-Aldergrove BC **sysdan@gmail.com**  
Sangean RD-5, CC Radio EP, Terk Advantage loop

- \*\*\*\*\*
- 590 KID **ID**, Idaho Falls 11/24 alone on 590. No sign of KSUB or KTIE. 0800 out of PSA with "From the... Security studio, security solutions for businesses, KID Idaho Falls, KIDJ Sugar City, and KIDG Pocatello, we are KID Newsradio" legal ID into Fox News. First time heard. (JCJ-AZ)
  - 650 KQNT **WA**, Spokane 11/24 0100 ID at TOH and Fox News. Fair above the pack with deep slow fades on R-390A and Kiwa loop. (GH-OR)
  - 670 KBOI **UT**, Manti 11/23 1840 ID on the half, "Right here in Sanpete Country," other local ad spots. Strong well before local sunset. At first, I thought they said "Stampede" County. How "western" that would be! (RB-AZ)
  - 810 KBHB **ID**, Boise 11/23 1830 live p-b-p of Boise State college football, over channel jumble well before local sunset. (RB-AZ)
  - 860 CJOB **SD**, Sturgis 11/24 0845 fair signal in KGO null with country music, weather, and "Big 81" ID. Rare in these parts. (DS-BC)
  - 930 KAFF **MB**, Winnipeg 11/27 2349"C-J-O-B" IDs heard twice in break then back to "Charles Adler Tonight." All alone with no sign of KNBR making me believe rumours that CJOB is not running their normal night pattern which tightly protected the former CHFA here in Edmonton. (JP-AB)
  - 1090 KAAAY **AZ**, Flagstaff 11/26 0858 logged at good level in KHJ null. Slogan "Mornings on Country Legends FM 93.5, AM 930" into country song. Weather noted at 0906. Good to hear them at the home QTH. It was great visiting their tower site at the 2008 IRCA convention. (MS-CA)
  - 1110 KRPA **AR**, Little Rock 11/25 weak under or mixing with XEPRS. 0800 with "AM 1090 KAAAY Little Rock and online at 1090kaay.com" legal ID. First time heard, AR #2 from Mesa. (JCJ-AZ)
  - 1140 CHRB **WA**, Oak Harbor 11/22 1300 has returned to the air after being dark for the past month. South Asian/Punjab programming simulcasting KWLE 1340 Anacortes, Much weaker signal than usual. (DS-BC)
  - 1230 KORT **AB**, High River 11/15 0815 "Another old time classic, on Southern Alberta's Community Radio Station." (RB-AZ)
  - 1240 KSMA **ID**, Grangeville 11/22 0010 man said "Playing all the hits, 1230 K-O-R-T," music. Weak in the sputter on R-390A and E-W wire. (GH-OR)
  - KBUP **CA**, Santa Maria 11/27 0230 call letters noted in mess. (MS-CA)
  - 1260 KPOW **WA**, Olympia 11/22 1100 good signal all alone with Catholic programming. Sacred Hear Radio multiple ID heard listing all stations in the network. Call change, previously logged as KGY. (DS-BC)
  - 1300 KCMY **WY**, Powell 11/21 2200 basketball game. Male gave TOH ID. On top of frequency for over 20 minutes on R-390A and N-S wire. (GH-OR)
  - 1340 KTPI **CA**, Needles 11/27 0304 good with call letters, local news, and weather. (MS-CA)
  - OR**, Enterprise 11/20 1900 male gave ID into news then back down into the mush on R-390A and E-w wire. Seldom heard. (GH-OR)
  - 1350 KTIK **ID**, Nampa 11/22 1955 announcer gave call letter ID during hockey game. Over and under KSRO on R-390A and Kiwa loop. (GH-OR)
  - 1350 XELBL **SON**, San Luis Rio Colorado 11/27 0941-0948 Spanish ballads, "Musica Romantica" slogan. (GK-CA)
  - 1400 ?KCYK? **AZ**, Yuma 11/27 0407 fading up sporadically though hodge podge of stations in tight KLTX 1390 null. Very classic country tunes by Donna Fargo and Eddie Arnold. Have logged in the past as KVOY. (MS-CA)
  - 1420 KMOG **AZ**, Payson 11/29 0902-0925 mentioned "5 inches of snow" and country music; mentions of travel restrictions. Mostly buried under XEXX. (GK-CA)
  - 1430 KCLK **WA**, Asotin 11/19 1700 ID into Colin Cowherd Show choppy atop the frequency. One UnID far under on R-390A and E-W wire. Weak! (GH-OR)
  - 1440 KUHL **CA**, Santa Maria 11/27 0100 in a reversal Murphy's Law, I caught the ID as soon as I hit the power button on the little RS DX-375. The radio used to belong to my mother, whose birthday would be today (RIP). I always try to log a cupla stations on her radio on 11/17 each year, and this was the first log of the day. Strong over the channel jumble. (RB-AZ)
  - 1450 KNOT **AZ**, Prescott 11/25 2157 ending Chuck Swindoll program. (GK-CA)
  - KTZR **AZ**, Tucson 11/25 2141 sports talk, "Fox Sports Radio" slogan. (GK-CA)
  - KZNU **UT**, St George 11/25 2151 Dennis Prager program. (GK-CA)
  - 1480 KQAM **KS**, Wichita 11/25 1920 string of local spots, solid ID by man, "The Big Talker" slogan, all suddenly up over (suspected) KHQN and other UnIDs in the mumble-rumble. (RB-AZ)
  - ?KHQN? **UT**, Spanish Fork 11/25 1000 Indian Bollywood type music, long religious (Hindu) monologue with man in English, all well after local daybreak. Frequently heard with all the evidence there, but no legal ID. (RB-AZ)
  - 1490 ?KYNR? **WA**, Toppenish 11/25 0003-0013 mostly dominant with light classical instrumentals and one choir piece until about 0010 when a carefully spoken quiet male voice spoke off and on over the music, with the music faded up during the pauses in speech. Assuming Yakima or other Native language as the accent and speech pattern were like English but not a single word was recognizable. 11/25 0903 same voice heard briefly without background music, in a jumble of 2-3 stations while nulling CJSN. (JP-AB)
  - 1560 KVAN **WA**, Burbank 11/28 0900 fair signal mixing with KZIZ. Spanish with legal ID heard for both KULE and KVAN. New catch. (DS-BC)
  - 1610 ?CHHA? **ON**, Toronto not positively ID'd 11/23 0436-0501 with strange vocal music sounding vaguely Middle Eastern. Then again 0649-0702 with choir music and just a few words in English at 0702. This tends to correspond to their program schedule. (GK-CA)

1690 KFSG CA, Roseville 11/22 1000 late in the morning with religious lecture in Spanish to female vocal music, ID by man "Roseville-Sacramento." Programming then went into Asian language (sounded like Chinese dialect). (RB-AZ)

#### UnID

1170 UnID 11/26 0930 through KCBQ with classic country hit "He's Got You." Most likely Arizona. No sign of KLOK this morning. (MS-CA)

Thank you all for the WDXR reports this week! – Nancy 11/29 1800



**CENTRAL DX ROUNDUP – John C Johnson – 2922 S Olivewood – Mesa AZ 85212-2923**  
Email: [John\\_Johnson@prodigy.net](mailto:John_Johnson@prodigy.net) CDXR reports ONLY: [cdxr@ircaonline.org](mailto:cdxr@ircaonline.org)

#### RIDING GAIN

- [EB-MO] **Eric Bueneman**, Hazelwood MO [N0UIHEric@gmail.com](mailto:N0UIHEric@gmail.com)  
National NC-60 Special, Apex 303WA-2 LW/AM/SW vertical, Yaesu FRG-7, Worcester Space Magnet II
- [GH-IL] **Gregory Harris** [wdx8khy@sbcglobal.net](mailto:wdx8khy@sbcglobal.net)  
FRG-100, Quantum Loop
- [JN-TX] **James Niven**, Austin TX [jniven@austin.rr.com](mailto:jniven@austin.rr.com)  
ELAD S2, Perseus SDR, Drake R8, DKAZ (East-South), 140' x 23' high.
- [TN-WI] **Tim Noonan**, Oak Creek WI [DXing2@aol.com](mailto:DXing2@aol.com)  
Kenwood R-1000, Radio West Loop

#### DOWN THE DIAL

- 570 WNAX SD, Yankton. 11/24 noted briefly with fair to poor signal under KLIF. 0558 with "WNAX Weather" read by a male announcer. Relog. [JN-TX]
- 600 KROD TX, El Paso. 11/23 fair signal on top of jumble. 1900 with "ESPN El Paso" slogan. Relog. [JN-TX]
- 680 CJOB MB, Winnipeg. 11/27 good signal over WMFS. 0221 noted with "Six-80 CJOB" ID in promo, local spots and sports show promo. [EB-MO]
- 800 CKLW ON, Windsor. 11/27 good over KQCV, WVAL. 0131 with weather forecast predicting winds of 80 kilometers per hour into local spots. [EB-MO]
- 960 KMA IA, Shenandoah. 11/27 good to fair signal over KZIM. 0215 noted with *The Jim Bohannon Show* and local spots. [EB-MO]
- 980 WRNE FL, Gulf Breeze. 11/24 fair signal over WYFN and other stations. 2154 noted with Urban Adult Contemporary format, "WRNE" ID. [EB-MO]
- 1150 KNED OK, McAlester. 11/17 equal signal to KSAL. 0700 with call letters. Relog. Last heard in 2005, not heard very often. [JN-TX]
- 1250 KCFI IA, Cedar Falls. 11/27 fair signal, mixing with WSSP. 0341 noted with Oldies format, "Cruisin' Oldies KCFI" ID. [EB-MO]
- KRRD AR, Fayetteville. 11/17 fair to poor under KDEI. 0701 with "KRRD Fayetteville" ID by male announcer into country music. [JN-TX]
- 1280 WNAM WI, Neenah. 11/27 fair to poor signal, mixing with other stations. 0258 noted with Adult Standards format, legal ID at 0300. [EB-MO]
- 1340 WJOL IL, Joliet. 11/27 fair to poor signal, mixing with other stations. 0200 noted with "AM 13-40 WJOL Joliet" legal ID into ABC News. [EB-MO]
- 1370 KWTL ND, Grand Forks. 11/21 fair to good signal. 2000 with legal ID and mention of "an affiliate of Real Presence Radio." New. [TN-WI]
- 1550 WDLR OH, Delaware. 11/23 briefly strong then gone into noise. 2300 with "WDLR Delaware" ID by male announcer. New. [GH-IL]

#### FLASHBACK

**50 Years Ago – December 6 1969** issue of "DX Monitor" ... New member **Frank Wheeler** of Erie PA mentioned his totals were 2626 heard with 1602 verified ... **Ernest J Wesolowski** of Omaha NE told about his trip to Oklahoma City OK to try to get KOMA to verify ... **Rick Evans** of Gary IN said his verie from WCAZ included a local newspaper for his collection. // **25 Years Ago – December 3 1994** issue of "DX Monitor" ... **Lee J Freshwater** of Ocala FL rejoined IRCA after being out of the DX hobby for 10 years ... **Eric Bueneman** of Hazelwood MO noticed only one Missouri station listed in the new expanded band ... **Gary Jackson** of Sacramento CA thanked **Art Peterson** and **Peter Taylor** for their help with the CalTrans survey ... **John C Johnson** of Billings MT received a KPIX T-shirt along with a verification. John noticed there were no Montana stations in the new expanded band.

#### OPEN MIKE

In a recent CDXR I incorrectly gave credit to **Tim Noonan** for a logging of KTWO 1030. Credit belongs to **James Niven**. Thanks to Eric, Gregory, James, and Tim for reporting this week. This column was typed 11-29-19. 73, John



**EASTERN DX ROUNDUP – Eric Bueneman (N0UIH) – 631 Coachway Lane – Hazelwood MO 63042-1347**  
Email: [n0uiheric@gmail.com](mailto:n0uiheric@gmail.com) DEADLINES: Friday 2359 ELT

#### TUNING THE DIALS THIS ISSUE:

- (KK-VA) **Kraig Krist** (KG4LAC), Manassas VA  
Winradio G33DDC software-defined receiver, Wellbrook ALA1530S+ Imperium loop
- (PS-ON) **Paul Snider**, London ON, Canada [paulisnider@yahoo.ca](mailto:paulisnider@yahoo.ca)  
Elad FDM-S2 software-defined receiver, Pixel RF Pro-1B loop, MFJ-1020C as a tuner

#### ACROSS THE DIAL

- 650 CKOM SK, Saskatoon – 11/26 0019 noted with local ads, two "650 CKOM" IDs, almost in a row, into *The Green Zone* show. A fair signal at times over WSM to very poor under. (PS-ON)
- 690 KFXN MN, Minneapolis – 11/26 0039 on day power with vocal music, assumed in the Hmong language, unable to get a legal ID at 0100. Did not match the XEW W Radio Web stream nor WNZK's Web stream. This has been confirmed by DXers in Minneapolis that they were on day power; this is the only station on 690 broadcasting Asian programming that I know of. (PS-ON) (WNZK operates on 680 at night. The Mexico City station on 690 is XEN; XEW is on 900. Hmong is one of several languages widely spoken in Laos – eb)
- 1080 WALD SC, Johnsonville – 11/28 2205 on for the second night in a row after sunset. Heard the previous night with Bible verses, the Lamplighter Moment and I thought I heard a list of stations in one of the IDs at the :00 mark; two Columbia SC stations were mentioned. This evening, more Bible verses, mention of Potter's Christian Life Center in Columbia SC, local ads, *Walk of Faith*, promos and ads including one for the American Association of Retired Persons, PSA, "The Word Network" mentions, what sounded like the same list of stations mentioned at 2300, but caught one for WKCL 91.5 MHz Ladson SC. A good signal was noted until near the :00 mark of the hour when it faded to poor to very poor until a few minutes after 2300. (PS-ON)
- 1330 WTRX MI, Flint – 11/29 2354 noted with a sports talk format, national ads, promos, caught "and on WTRX Sports-dot-com" in legal ID at 2400. A poor to very poor signal was noted, mixing with other stations; first time heard in London. (PS-ON)
- 1450 WWHK SC, Myrtle Beach – 11/22 0540 noted with a Country format, "Number One Country station playing... 105.5" mention by a male announcer. "105.5 Hank FM" ID (W288DK Myrtle Beach – eb) at 0633 by a male announcer. The signal was noted mixing with WMRV and an unidentified talk station. (KK-VA)
- 1470 WJDY MD, Salisbury – 11/22 0600 noted with "News Radio 1470 WJDY Salisbury" legal ID by a male announcer. The signal was noted mixing with WLMC, WQXL, WSAN, WWNN and unidentified stations with vocal music and Spanish language programming. (KK-VA)
- WQXL SC, Columbia – 11/22 2351 noted with local ads, PSAs for the South Carolina National Guard and I Made It SC dot com, high school sports show, "100.7 the Point" (W264DF Columbia – eb) mention in legal ID at 2400 into ABC News. A fair to very poor signal was noted, mixing with WVOL and other stations. (PS-ON)
- WLMC SC, Georgetown – 11/22 0533 noted with Oldies format and mention of "101.1 FM" (W266DG Georgetown – eb) by a male announcer. The signal was noted mixing with WJDY, WQXL, WSAN, WWNN and unidentified stations with vocal music and Spanish language programming. (KK-VA)
- 1480 WDJO OH, Cincinnati – 11/22 0525 noted with an Oldies format, "Oldies Network... WDJO" ID by a male announcer. The signal was noted mixing with WPWC and an unidentified Spanish language station. (KK-VA)
- 1490 WRCE NY, Watkins Glen – 11/22 0539 noted with Country format, "AM 1490 WRCE" ID by a male announcer. The signal was noted mixing with WNTJ and unidentified stations with a Classic Hits (emphasizing the 1980s) format and Ethnic programming (Greek or Indian vocal music). A new station in the logbook. (KK-VA)



## EDITOR'S NOTES

Thanks to Kraig and Paul for their logs this week. I hope you had a great Thanksgiving; Hanukkah and Christmas are just around the corner. 73 and good DX from NØUIH, the Florissant Valley Dial Twister.



**DX WORLDWIDE/TROPICAL BAND DX** – Brandon Jordan – PO Box 338 – Rossville TN 38066  
Email: dxww.irca@gmail.com

all times UTC

**New Deadline** – Monday 0000 UTC.

### \*\*\* PAN-AMERICAN DX \*\*\*

830 **MÉXICO** XEITE, Ciudad de México, DF. NOV 28 0415 - Spanish language slower/tropical ballad style music. No ID heard, but definitely//Tune In stream (ballad at about 2339 sung by female singer really cut through). Poor to very poor under WCCO. [PS-ON]

### CONTRIBUTOR

PS-ON **PAUL SNIDER**, London ON  
EladFDM-S2, Pixel Pro 1B loop, MFJ-1020C as tuner

73 and Good DX, Brandon



**DXpeditions** – Phil Bytheway – 9705 Mary NW – Seattle WA 98117-2334  
Email: DXM.EIC@gmail.com

### DX at Sandy Neck Beach, Barnstable MA (Ray Barstow via IRCA eGroup)

11/23-24/19. 10 foot x 16 foot loop w/G-33 and outboard amp. Sunset at 2116. At tune in things were hopping.

2030 – 100°

- 531 **ALGERIA** Talk with 530 absent.
- 540 **NL** Making mincemeat out of WLIIE NY. Normal the other way around.
- 570 **NL** VOXM. Wiping out WMCA.
- 576 **SPAIN** RNE Radio 5. Stations had opera.
- 585 **SPAIN** RNE. Radio Nacional. With a soccer game.
- 590 **NL** VOXM. Under Boston.
- 620 **NL** CKCM/VOXM. ID but prior music not //570.
- 640 **NL** CBN. "You're listening to, The Next Chapter on CBC Radio 1". All alone.
- 650 **NL** CKGA/VOXM. //590 under WSRO.
- 693 **UNITED KINGDOM** with Spain under with soccer.
- 711 **SPAIN** COPE. With soccer game with Morocco.
- 720 **SPAIN** With opera //576 in the mix.
- 740 **NL** CHCM/VOXM. A news update. On top.
- 750 **NL** CBGY. Strong and all alone.
- 756 **ROMANIA** Talk in fair.
- 765 **UnID** Man and a woman talking but too weak to catch the language. Maybe Mozambique as also music near the end of file with drumming. No // found.
- 810 **SPAIN** SER. With game in the mix.
- 819 **EGYPT** Woman in song. Fair w/slop.
- 801 **SPAIN**
- 918 **SPAIN**
- 936 **SPAIN** On top with opera.
- 981 **ALGERIA** Music.
- 990 **NL** CBY. On top w/Spain w/game.
- 1008 **SPAIN** With soccer to S 6 peak.
- 1010 **UnID** Dolly Parton singing a song. Equal to WINS at one point.
- 1080 **SPAIN** Soccer mixing with WTIC.
- 1206t **ISRAEL** Talk.
- 1210 **NL** VOAR. Good and all alone.
- 1575, 1584, and 1602 **SPAIN** SER. with soccer.

Sometimes with Spain prolific I will write down what they have for each network and use that when checking out the many Spanish stations I pick up at a beach.

2045 – 100°

- 702 **ALGERIA** Quran with noise.
- 770 **NY** at S 4-5 using AMS.
- 783 **SPAIN** Game. Syria also along with them.
- 864 **SPAIN** Soccer and all over Egypt.
- 880 **NY** at S 8 on AMS.
- 890 **UnID** S 9 carrier.
- 1089 **UNITED KINGDOM** Plus unknown under with talk.
- 1143 **SPAIN** COPE. Soccer at S 5-6.
- 1161 **EGYPT** Talk at S 5 w/slop.
- 1179 **SPAIN** Holding down that channel at the time with soccer.
- 1188 **IRAN** Mideast music + a carrier on 1188.225 weak audio or imaginary.
- 1197 **UnID** Weak with a woman talking.
- 1287 **SPAIN** with game at S 5.
- 1332 **ROMANIA** With talk to a fair peak.
- 1341 **UNITED KINGDOM** and Spain with its game.
- 1377t **ARMENIA** Talk but weak.
- 1422 **ALGERIA** Woman singing a Mideast song. S 7.

2100 – 100°

- 630 **PORTUGAL** Talk with late pips into news. Under WPRO.
- 720 **PORTUGAL** and Spain mixing.
- 774 Interesting with 3 stations. Usual Spain and Egypt mixing with another station with music. I would think Iran.
- 819 **EGYPT** Talk.
- 864 **EGYPT** now in good with 5 pips with the last one with higher pitch.
- 936 **SPAIN** mixing with Morocco.
- 1062 **ITALY** Talk, fair.

2130 – 100°

- 765 **SAUDI ARABIA** Quran to a fair peak. And possibly a soccer game underneath.
- 963t **TUNIS** A jazz selection.
- 1206 **ISRAEL** Fair with Hebrew talk by a woman. Note: Many times in the past I have heard this station with a woman talking. You go girl.
- 1413 **SPAIN** RNE Radio 5. A series of songs, maybe an opera. Many songs with a guitar accompaniment.

2200 – 130°

- 666 **PORTUGAL** Soccer in fair at S 5-6. With Spain.
- 917 **NIGERIA** At S 5 with festive music.
- 1179 **ROMANIA** Now on top w/pips. Spain under with its pips and a bad sync.
- 1660 **WWRU** on top. Then a Spanish station with a man saying Hallelujah many times along with Cristo. Maybe Cristo a common word in Spanish but my Spanish sucks. Also at ToH. WQLR heard.

2300 – 130°

- 900 **UnID** 5 pips pause and 1 more pip at ToH. Maybe Venezuela or Cuba. Cuba more or less on top.
- 999 **SPAIN** And also Morse code heard at times. Code to fast for me to decode.
- 1431 **DJIBUTI** Music in fair.
- 1521 **SPAIN** Talk to a fair peak.

0000 – 130°

- 1521 **CHINA** Urumqi. Asian music to IS and talk. In fair and a surprise. Thanks to, Russ Edmunds, Jim Renfrew, and Julius Hermans. I wonder how far from East Falmouth?

0015 – NW

- 770 **WABC** plus 2 others. One with talk and the other with slow old tunes.

## Some NDB Beacons on 11/24/19 At Sandy Neck beach

0012 – NW

201.4 **QC** GL. New.

208.4 **NU** YSK.

258.4 **ON** ZSJ. 1,322 miles.

284.4 **NU** RT. 1,712 miles – Weak. NEW

317/1020 **ON** ZZR. NEW

328.4 **ON** YTL. 1,228 miles in fair.

396.4 **YPH**. Must be new. In strong.

Have not tried for NDB for many years. My start date, January 9 08. And it seems many beacons were coming in around December of 09. Total about 460. A nice night. Take care and good DX to all.

**Roy Barstow** – Falmouth MA. OLD CAPE COD

### DXpedition #10 – Babler State Park, Wildwood MO Eric Bueneman (NØUIH)

One year and one day after my first DXpedition, I returned to the site of that DXpedition, Babler State Park in Wildwood MO. As a review, the park is operated by the Missouri Department of Natural Resources, located about 25 miles west of downtown Saint Louis in western Saint Louis County. This time, I set up in a large parking lot near the Guy Park Trailhead, roughly half a mile north of the November 24 2018 DXpedition site (which is south of the trailhead). Temperatures were in the mid-60s Fahrenheit under mostly sunny skies.

Once again, I took the General Electric Superadio III for AM (MW) broadcast band DX, with the Tecsun PL-600 used for Tropical Band DX. I brought my homebrew 30-foot portable longwire, which I built for DXpeditions after the first DXpedition, for Tropical Band DX. It was also the first time I took along my new Whistler WS1040 handheld digital scanner for a DXpedition; I used this to check the NOAA Weather Radio bands and monitor VHF and UHF Public Service bands in analog and digital formats.

I was monitoring from 1415 to 1745 ELT (1915-2245 UTC). Conditions on the AM broadcast band were typical daytime conditions prior to 1500 ELT (2000 UTC) before stations to the east started to be heard. By 1600 ELT (2100 UTC), stations from Ohio and Pennsylvania were being heard; after 1600, I was hearing stations as far east as Virginia and as far west as Oklahoma. I even heard one station from my old Georgia stomping grounds before 1700 ELT (2200 UTC). After 1700 ELT (2200 UTC), I was hearing Nebraska AM stations; KRVN was taking out WIJR and burying WCBS. On the Tropical bands, Cuba on 5025 kHz was in weak after 1900 UTC; signal strength increased after 2000 UTC. Even Brazil on 4885 kHz was in after 2200 UTC. Above the tropical bands, conditions favored African and South American stations before 2000 UTC, Europeans came through after 2000 UTC and Asians were heard after 2130 UTC. I wrapped up monitoring around 1745 ELT (2245 UTC), packed up and faced the Monday afternoon rush hour traffic along Missouri 109, some of Chesterfield's main drags and Interstate 64 in western Saint Louis County.

All times for AM broadcast band logs are ELT; all times for Tropical Band logs are in UTC.

#### DOMESTIC DX (US and CANADA)

- 570 WKBN **OH**, Youngstown – 11/25 1731 noted with local ads, promo for *The Sean Hannity Show*, “News/Talk 570” ID into a weather forecast. A fair to poor signal was noted, mixing with WNAX.
- 750 WNDZ **IN**, Portage – 11/25 1537 noted with Chicago area ads in Spanish. A fair signal was noted over KBNN; no sign of WSB yet.
- 780 WJAG **NE**, Norfolk – 11/25 1735 noted with talk on the corn crop and corn prices mentioning Nebraska. A good to fair signal was noted over WBBM with ACI from WEW 770.
- 790 WKRD **KY**, Louisville – 11/25 1615 noted with talk on University of Kentucky and University of Louisville athletics, “Cards Radio 790 KR” ID, station promo and local ads. A good to fair signal was noted over WMC and WRMS.
- 880 KRVN **NE**, Lexington – 11/25 1740 noted with extended agricultural weather forecast for Nebraska and Kansas, ads mentioning various Nebraska cities, financial report and Nebraska Department of Transportation *Click It or Ticket* PSA. A good signal was noted over WCBS and WIJR.
- 890 WKNV **VA**, Fairlawn – 11/25 1629 noted with a “Joy FM” ID into a Southern Gospel format. A fair signal was noted over WLS.
- 960 WFIR **VA**, Roanoke – 11/25 1631 noted with Virginia Tech Hokies basketball pre-game show from the Maui Invitational in Hawaii. A fair signal was noted over KZIM.
- 1020 KDKA **PA**, Pittsburgh – 11/25 1547 noted with promo mentioning “News Radio 1020 KDKA”, local ads, including one mentioning Area Code 724. A fair to poor signal was noted with ACI from KXEN 1010.
- 1030 WGSF **TN**, Memphis – 11/25 1552 noted with a Regional Mexican format, promo mentioning “Radio Ambiente” in Spanish. A fair to poor signal was noted over KCWJ.
- 1040 WPBS **GA**, Conyers – 11/25 1655 noted with a discussion mentioning Georgia in Vietnamese. A good signal was noted over WHO.
- 1060 WILB **OH**, Canton – 11/25 1555 noted with EWTN promos, *Christopher Minute*, local underwriting announcements. A fair signal was noted over WMCL.
- 1110 KFAB **NE**, Omaha – 11/25 1716 noted with a “News Radio 1110 KFAB” ID, promo for the iHeart Music Awards, mention of CW 15 (KXVO-TV), local ads. A good signal was noted with ACI from KMOX 1120.
- 1170 KFAQ **OK**, Tulsa – 11/25 1605 noted with Tulsa weather forecast, sports show promo, “Talk Radio 1170” ID into *The Sean Hannity Show*. A good signal was noted over KBOB and WWVA.
- 1340 KXEO **MO**, Mexico – 11/25 1424 noted with a Gold-based Adult Contemporary format, “KXEO” ID. A fair to poor signal was noted, mixing with KSMO.
- KSMO **MO**, Salem – 11/25 1419 noted with ads mentioning Salem. A fair to poor signal was noted, mixing with KXEO.
- 1350 KRAP **MO**, Washington – 11/25 1507 noted with a Hot Adult Contemporary format, “Westplex 107.1” ID. A fair signal was noted over WSIQ.
- 1360 KBKB **IA**, Fort Madison – 11/25 1517 noted with local weather forecast, “Fox Sports Radio 1360” ID into Fox Sports Radio. A fair signal was noted, alone on the channel.
- 1410 WING **OH**, Dayton – 11/25 1521 noted with local ads, promo for Ohio State University sports talk show, “1410 ESPN Radio” ID into a local sports talk show. A good to fair signal was noted over other stations.
- 1480 WJBM **IL**, Jerseyville – 11/25 1527 noted with a Country format, “104.7 FM and AM 1480 WJBM” ID. A fair signal was noted over other stations.

#### TROPICAL BAND DX

- 3330 **CANADA** CHU Ottawa, ON – 11/25 2153 noted with “CHU Canada” ID in French, UTC time check in French and English, time signals, “CHU Canada” ID in English at 2154. A good to fair signal was noted.
- 4885 **BRAZIL** Radio Clube do Pará ZYG362 Belém, Pará. 11/25 2209 noted with commentary in Portuguese. A poor signal was noted.
- 5025 **CUBA** Radio Rebelde CMBA Bauta, Ciudad de la Habana – 11/25 2012 noted with commentary in Spanish. A fair to poor signal was noted.
- 5040 **CUBA** Radio Havana Cuba via Bejucal, Ciudad de la Habana – 11/25 2208 noted with commentary in Spanish. A fair signal was noted.

#### NOTES

The second Babler DXpedition was more productive than the first one 366 days before. Having the 30-foot homebrew longwire antenna improved Tropical Band and shortwave DX exponentially over the 20-foot Tecsun longwire that came with my PL-600. If there is one lesson I've learned on the ten DXpeditions I've taken, it is that you don't need to go hundreds of miles away to do a DXpedition; there are plenty of places to do one in and around your metro area, even a nearby park or conservation area. The secret, in my honest opinion, is to be at least 15 miles away from the transmitter site of a 50,000-watt AM blowtorch like KMOX 1120. I plan to check out some new sites in the New Year. 73 and good DX from NØUIH, the Florissant Valley Dial Twister.



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

Deadlines: 12/7, 12/14, 12/21, 12/28 and 01/4/20

**Glenn Hauser**, PO Box 1684, Enid OK 73702 **wghauser@yahoo.com**

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

CANADA. 326 kHz, November 28 at 0718, dash and YQK ID from ND beacon, which is 200 watts from Kenora, Ontario. 335 kHz, November 28 at 0721, dash and YLD ID from ND beacon, which is 1000 watts from Chappleau, Ontario.

USA. 395 kHz, November 29 at 0800, ND beacon ULS – I bet it's Ulysses, Kansas. Yes; 25 watts.

CANADA. 401 kHz, November 29 at 0758, dash and YHD, 500-watt NDB in Peawanuck, Ontario. See also CAYMAN. 396 kHz, November 29 at 0759, dash and YPH, 500 watt NDB at Inukjuak, Quebec; a new one for me, so look up that place: it's on the east shore of Hudson Bay, 2845 km = 1768 statute miles from me. "Inukjuak is a northern village located on Hudson Bay at the mouth of the Innuksuak River in Nunavik, in the Nord-du-Québec region of northern Quebec, Canada. Its population is 1,757 as of the 2016 Canadian Census. An older spelling is Inoucdjouac; its former name was Port Harrison. Wikipedia".

CAYMAN ISLANDS [and non]. 415 kHz, November 29 at 0758, ND beacon CBC from Cayman Brac, best way to hear this country rather than random hams. 600 watts and I was tuned to 414-USB. Right next door to 413 dash and YHD, 250 watts in Dryden, Ontario, which are 3537 km apart.

USA. 1010, November 30 at 0700, ID for KBBW Waco and several FMs, "Legendary 10-10 AM everywhere in central Texas". KBBW night pattern has two tight lobes at 160 and 290 degrees, hardly anything thisaway. Day pattern not much better for us, very minor lobe at 350, broad major lobe at 170. FCC info does not mention any translators or FM affiliates. But website is headed: "KBBW 1010 AM 105.7 FM 101.3 FM 100.3 FM – Life Changing... kbbw.com 105.7 FM in Waco, 101.3 FM in Killeen-Temple, 100.3 FM in Georgetown-Round Rock-Cedar Park and everywhere on the legendary 1010 AM. Keep Boldly Believing the Word" Yes, it's 100% gospel huxtering. Website <http://kbbw.com/> is nothing but a program sked.

UnID. 1010, November 30 at 0659 just before full ID for KBBW Waco TX, qv, I hear another ID sounding like KGJO – but no such listing nor anything fuzzily similar to be found in NRC AM Log, or FCC AM Query. Nor is there any such call on FM in case that were a reference. Ideas? Glenn, I would bet the ID you heard was for KDJW-1360, which often simulcasts KTNZ-1010. Both stations seem to stay on day rig overnight from time to time. Sample attached from last month's Border Inn recordings. (Tim Hall, CA) Thanks, Tim. Yes, I bet that's it. Amarillo's, KTNZ nothing unusual here.

USA. 1200, November 25 at 1357, Spanish has overtaken WOAI, soon ID for TUDN Radio, WRTO Chicago with the call letters pronounced in English. More than an hour after Chicago sunrise.

USA. 1203, November 27 at 2217, IBOC noise bothering WRTO Chicago 1200 (not WOAI), and another peak about 1177. This time the 1190 source is WOWO: sports talk by woman and man "after 5 o'clock", mention Fort Wayne; dominant 1190 signal but plenty of QRM. WOWO is believed to be the only 1190 running IBOC. Don't usually hear that or 1190 itself and wonder if their pattern be out of whack: U2 50/9.8 kW, i.e. ND day which is OK since November sunset is 2230 (December: 2215). NRC AM Log shows format as NWS/TLK, not SPT per se.

USA. 1500, November 27 at 2215, plenty skywave already, area code 317 mentioned, "deliverance" and gospel huxtering vs sports talk presumably KSTP. 317 is Indianapolis, and the 1500 there is a fit, REL format on the other WRN group, WBRI, a 5 kW directional daytimer. Best time to hear it as Nov official sunset is not until 2230\* (December: 2215\*).

USA. 1520, November 28 at 2230 as I am chasing the Sa'udi het from 1521 vs KOKC, other skywave QRM with partial ID mentioning two FM frequencies, 92.3 and another in the 100s. Nonesuch listed at 1520 in the NRC AM Log, but in the WTFDA FM Database, among all the USA 92.3 listings, searching on 1520 there is one hit which is quite reasonable: "W222BG, WHOW-1520, 92.3, CLINTON IL, 0.25, 62.0, 40-05-43 88-57-51, NEWS/TALK/FARM NEWS RADIO 1520 //W293DJ 106.5" Back to the NRC AM Log which does match WHOW with 106.5 but not 92.3, and there is no Group cross-ref. WHOW is a D3 directional daytimer of 5000 watts, rather only 1000 during Critical Hours: "The Big 1520 AM and 106.5 FM". But FCC AM Query shows it non-directional both daytime and CH; and November sunset is 2245 (December: 2230). Thus the synergy of these three major references.

UnID. 1520+, November 27 at 2226, I'm straining to hear a tell-tale het from 1521 upon 1520 KOKC, since Doha, Sa'udi Arabia 2000 kW is about to sign off at 2231\* as noted by Bruce Conti, NH. It used to be obvious when it ran all-night. I do detect a JBA carrier, but sounds less than 1 kHz, so maybe KRHW Sikeston MO which has varied before; and still there at 2233.

USA. WORLD OF RADIO 2010 monitoring: almost confirmed Saturday November 30 at 2050 the 2030v on WA0RCR, 1860-AM, Wentzville MO. I do have a JBA signal with talk rather like my "monotone", but blocked by heavy local line noise which still infests this part of the spectrum. Next: 0400v Sunday WA0RCR 1860-AM [nominal 0415] {but I missed checking}

CANADA. 2749-USB, November 27 at 0814, marine weather by woman in French, very poor. Per EiBi at 0810-0830 it's VCS Halifax but in English via sm site = Sambro NS. 2598-USB, November 27 at 0816, woman too weak to detect language. EiBi says at 0807-0833 it's VoJ, Port aux Basques NL, English and French via sv site = Stephenville NL.

CANADA. 2749-USB, November 29 at 0745, robo-woman with weather in English, "storm warning" time and again for different areas, S5-S6. EiBi shows at 0740-0800 it's VCO Sydney NS via pc site = Port Caledonia NS. 2598-USB, November 29 at 0749, woman with forecasts in English for various coasts as far ahead as Tuesday, mentions Newfoundland Standard Time. S7 and unusually stronger than 2749 despite further. EiBi shows at 0737-0805 it's VCP Placentia NL via site sl = St Lawrence NL.

USA. 3215, November 29 at 0753, S9+10/20 of dead air except for some hum and squeal from WWCR-1, much more pleasant listening than Brother HyStairical. Does he get a refund? Is it Stair's fault or theirs?

UnID. 3344.924, November 27 at 0807, carrier fading S7-S5. Such a frequency immediately brings to mind the mostly inactive RRI Ternate, Indonesia, although a bit early for it to propagate? Maybe not: sunset 0920. A few hours earlier Wolfgang Bueschel independently measured exactly the same frequency! and had the same idea about Ternate – but certainly not at noontime there, and apparently he was using USA remotes like adjoining logs in that session: "3344.924 ??? Strange signal string, much vague – ? could it be carrier of RRI Ternate-INS ? – at 0320 November 27 wb". Last reported frequency for it was 3344.86 as in DXLD 19-22.

UnID. 3344.92, November 29 at 0750, no signal today unlike ante-yesterday. Ron Howard replied: "Hi Glenn, Your 3344.92 was a utility, which just happened to be on the former Ternate and PNG (NBC Northern, the Voice of Oro) frequency. On November 26, utility still being heard with a good level carrier 1506+. Ron, California". BTW, Ternate is on the west coast of Sulawesi.

GUATEMALA. 4055, November 29 at 0743, S9+10 open carrier with hum, surely TGAV Radio Verdad has failed to turn off its transmitter after 0610v closing, wasting watts. {however, by December 1, Manuel Mendez in Spain found it still programming past 0800; for Advent?}

CUBA. 5040, November 27 at 0104, Radio Havana Cuba supported and squealing with spur-blobs 3 to 4 kHz on both sides. Language is Kriyol this time when it is supposed to be. Wolfgang Bueschel agrees: "CUBA 5040 RHC Bauta Spanish TOTALLY DISTORTED HISSING audio feed signal, 0346, S=9+15dB in CC Florida, 7.6 kHz wideband outlet tonight".

CUBA. 5040, November 28 at 0714, Radio Havana Cuba English is still on here, only //6145 which normally lasts until 0800.

CUBA [non]. 5040, November 29 at 0035, no signal from Radio Havana Cuba but a JBA carrier, presumably the only other known 5040, All India Radio, Jeypore from 0025. Even weaker than the JBA carrier on 5060 from presumed Xinjiang. 5040 Radio Havana Cuba still off at 0521.

Until the next, Best of DX and 73 de Glenn!



**VERIFICATION SIGNERS – Stephen S Howe – 9 Warner Dr – St Albans VT 05478-1575**  
E-mail: [showe@albany.edu](mailto:showe@albany.edu)

My deadline is the last Monday of the month at 1500 ELT.

#### CONTRIBUTORS

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IRCA IRCA ListServ

#### FREQ CALL NAME, TITLE; ADDRESS; WHAT; WHEN; WHO

900	KKRT	Gary Patrick, VP/Market Manager; 1124 N Miller St, Wenatchee WA 98801; E; 1; PB
970	WWRK	VP of Engineering; 181 E Evans St, Suite 311, Florence SC 29506*; Q; IRCA
1300	KCMY	[None]; 1960 Idaho St, Carson City NV 89701*; PB; 8; IRCA
1600	KYBC	Mike Puetz, GM, Yavapai Broadcasting Corp; PO Box 187, Cottonwood AZ 86326; LP; 10; MF



**WHAT** was received: L = Letter with personalized statement; F = Form letter; Q = QSL card, commercially printed; C = Postcard or similar card supplied by station; P = Prepared card or form supplied by DXer; R = DXer's report returned with statement; cf = Certificate; E = Verification by Email; fx = Verification by FAX; M = Coverage map; B = Bumper or other sticker; bc = Business card; + = Extra goodies

**WHEN** the reply came: Number of days elapsed; f = Follow-up, by mail, FAX, Email, or visit; n = Return postage not used; r = Return postage returned

**NOTES:** \* [For this column] = Address provided by SSH

Thanks to Phil, Martin, and two posts on the ListServ, we have a column this month. This column was prepared on 11/25/19. 73, SSH.



**2019 IRCA COUNTRIES LIST – Bruce Portzer – 6546 19th Ave NE – Seattle WA 98115**  
Email: portzerbt@gmail.com

### THE 2019 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](mailto:portzerbt@gmail.com)

#### ACTIVE COUNTRIES

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

Afghanistan [AS]	Estonia [EU]
Alaska [NA]	Ethiopia [AF]
Algeria [AF]	Falkland Islands (aka Islas Malvinas) [SA] – MW ceased circa 2013 but later returned
Andaman and Nicobar Islands (part of India) [AS]	Faroe Islands [EU]
Angola [AF]	Fiji [OC]
Antigua and Barbuda [NA]	France [EU]
Argentina [SA]	Georgia [AS]
Armenia [AS]	Germany [EU] – Formerly German Federal Republic (West Germany). GDR and West Berlin were added in 1990.
Australia [OC]	Gibraltar [EU]
Azerbaijan [AS]	Greece [EU]
Azores [EU]	Greenland (aka Kalaallit Nunaata) [NA]
Bahamas [NA]	Guam [OC]
Bahrain [AS]	Guantanamo Bay Naval Base [NA]
Balearic Islands (part of Spain) [EU] – includes Majorca	Guatemala [NA]
Bangladesh (formerly East Pakistan) [AS]	Guernsey (British Crown Dependency) [EU]
Barbados [NA]	Haiti [NA]
Benin (formerly Dahomey) [AF] – after 8-1-60	Hawaii [OC]
Bolivia [SA]	Honduras [NA]
Bonaire [SA] – became a separate "country" 10-10-10.	Hong Kong [AS] – Special Administrative Region of China with a high degree of autonomy
Bosnia-Herzegovina [EU] – receptions before 10-15-91 count as Yugoslavia	Hungary [EU]
Botswana (formerly Bechuanaland) [AF]	Iceland [EU] – resumed on MW in 2016, has been active on LW for a long time
Brazil [SA]	India [AS]
British Virgin Islands [NA]	Indonesia [AS]
Bulgaria [EU]	Iran [AS]
Cambodia (formerly Kampuchea) [AS]	Iraq [AS]
Canada [NA]	Ireland [EU]
Canary Islands [AF]	Isle of Man (self-governing British Crown Dependency) [EU]
Ceuta (part of Spain, located in Morocco) [AF] – See Morocco listing in WRTH	Israel [AS]
Chad [AF] – transmitter on 840 kHz reactivated October 2018	Italy [EU]
Curacao [SA] – after 10-1010. Earlier logs count as Netherlands Antilles	Japan [AS]
Cyprus [AS]	Jersey (British Crown Dependency) [EU]
Czech Republic [EU] – after 1-1-93, earlier loggings count as Czechoslovakia	Jordan [AS]
Denmark [EU] – still active on LW. Some low-power MW stations are now in operation.	Kazakhstan [AS]
Djibouti (formerly French Somaliland, Afar and Issas) [AF]	Kenya [AF]
Dodecanese Islands (part of Greece, includes Rhodes) [EU]	Kiribati (formerly Gilbert Islands) [OC] – includes Tarawa
Dominican Republic [NA]	Kiribati, Eastern (aka Line Islands) [OC] – far enough from Tarawa to count as a separate country, Kiritimat-846 activated in early 2018
Ecuador [SA]	Korea, North (Democratic People's Republic of Korea, DPRK) [AS] – loggings from before the Korean War in the early 1950s count as South Korea.
Egypt [AF]	Korea, South (Republic of Korea) [AS]
El Salvador [NA]	
England [EU]	
Eritrea [AF] – became part of Ethiopia 11-14-62, then gained independence 9-15-93	

Kosovo [EU] – Former Serbian province, under UN-supervised administration 1999-2008. Independent country since 17 Feb 2008. Reported active on MW in mid-2017

Kuwait [AS]

Kyrgyzstan (formerly Kirghiz SSR, Kirgizia) [AS]

Lakshadweep (aka Laccadive Islands) (part of India) [AS]

Laos [AS]

Latvia [EU]

Lesotho (formerly Basutoland) [AF]

Libya [AF]

Lithuania [EU]

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]

Marshall Islands [OC]

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 Zealand [OC]

Nicaragua [NA]

Nigeria [AF]

Norfolk Island [OC]

Northern Ireland (part of UK) [EU]

Northern Mariana Islands [OC]

Norway [EU] – active on LW until end of 2019, low power MW stations are sometimes active

Oman [AS] – includes Masirah Island and Musandam Peninsula

Pakistan (formerly West Pakistan) [AS]

Panamá [NA]

Papua New Guinea [OC]

Paraguay [SA]

Péru [SA]

Philippines [AS]

Poland [EU]

Portugal [EU]

Pridnestrovie (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]

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. At least one MW station still active.

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]

Tunisia [AF]

Turkey [AS]

Turkmenistan (formerly Turkmen SSR) [AS]

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]

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 regular medium wave stations, based on information in the World Radio-TV Handbook (WRTH), Pacific Asian Log (PAL), mwlist, or other DX references. 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 was planned many years ago but never made it on the air

Albania [EU] – left MW in 2017

Anguilla [NA] – Caribbean Beacon silenced by hurricane(s)

Andorra [EU] – Two high powered MW stations operated here until early 1980s

Antarctica (and nearby island groups) [OC] – SW/FM only, had MW in the 1960s

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

Belgium [EU] – left MW December 2018

Belize (formerly Br Honduras) [NA] – FM only

Bermuda [NA] – now 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

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

Fernando de Noronha [SA] – Island group in Atlantic, part of Brazil, FM only

Finland [EU] – one low-power MW station is currently inactive

French Guiana [SA] – no known MW operations at the moment

French Polynesia (aka Society Islands, includes Tahiti) [OC] – AM operation ceased Dec 2016

Gabon [AF] – after 8-17-60, station listed in WRTH is probably inactive

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]

Guadeloupe [NA] – left MW mid-2017

Guinea [AF] – now inactive on MW

Guinea-Bissau (ex-Portuguese Guinea) [AF]

Guyana (formerly British Guiana) [SA] – no longer active on MW

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 on MW 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  
 Kaliningrad (noncontiguous part of Russia) [EU] – shut down a few years ago  
 Lampedusa [EU] – Italian island near Tunisia. No known MW stations, possibly some FM  
 Lebanon [AS] – now FM only  
 Liberia [AF] – SW/FM only  
 Lord Howe Island [OC] – now FM only  
 Liechtenstein [EU] – FM only  
 Luxembourg [EU] – MW broadcasts ended in late 2015  
 Macao [AS] – now FM only, MW went silent circa 2014  
 Mali [AF] – after 6-20-60 – FM/SW only  
 Martinique [NA] – FM only  
 Mauritania [AF] – after 6-20-60 – transmitter on 783 has been silent for a while  
 Mayotte (aka Mahore) [AF]  
 Midway Island [OC] – FM only, MW has been inactive for many years  
 Monaco [EU] – MW transmitters were 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  
 New Caledonia [OC] – AM operation ceased mid-2017  
 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  
 Palau (aka Belau, formerly Western Caroline Islands) [OC] – AM ceased operation in 2013  
 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 and had AM at one time, believe it or not  
 Réunion [AF] – AM operation ceased in early-mid 2017  
 Rwanda [AF] – SW/FM only  
 Saba and Saint Eustasius [NA] – separate country after 10-10-10, FM only  
 Saint Barthélemy [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  
 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  
 Sint 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]  
 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, occasionally has short-term low-power MW operations  
 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. No MW stations since 2014.  
 Togo [AF] – FM only  
 Tokelau [OC] – FM only  
 Trinidad and Tobago [SA] – 610 and 730 are gone  
 Tristan da Cunha [AF] – FM only  
 Turks and Caicos Islands [NA] – RVC might return someday  
 United Nations HQ [NA] – universally recognized as "neutral" territory, but has no MW activity  
 Uzbekistan (formerly Uzbek SSR) [AS] – no known active MW outlets  
 Vatican City [EU] – Ceased MW operation Nov 2016.  
 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) – had AFRTS stations  
 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)



**GEOMAGNETIC INDICES** – Compiled by: **Phil Bytheway**  
 Email: [DXM.EIC@gmail.com](mailto:DXM.EIC@gmail.com)

#### Geomagnetic Summary November 1 2019 through November 30 2019

Tabulated from WWV on-line status daily (K @ 0000 UTC): <ftp://ftp.swpc.noaa.gov/pub/forecasts/wwv/>

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

Gx – Geomagnetic Storm Level

Rx – Radio Blackouts Level

Sx – Solar Radiation Storm Level

### Loop Antenna Design and Theory (LAM)

Revised and updated in 1996, this manual is a compilation of numerous articles on the subject of design and theory of the loop antenna that have appeared through the years in **DX News**. This book gives detailed information on the theory of operation, construction and maintenance of a loop antenna. Serves as an enhancement to Antenna Reference Manuals Volume 1 and 2. 8 1/2" X 11" bound book format.

#### LAM Contents:

Multi-Rod Ferrite Loop Antennas  
Loop Antenna Theory and Practice  
Loop Distortion Why get Skewed?  
High Dynamic Range Balun Loop  
The Hot Rod- Ferrite Loop Antenna  
High Precision Direction Finding  
What's Wrong With Present Day Loop Antennas?  
Roll Your Own! (Loop)  
Long Wave Converter Detail  
Pattern Controlled Loops  
BFE-C Loop Amplifier Card  
Loop Antenna Sensitivity  
High Performance Loop Amp

Price: **IRCA/NRC Member USA \$9.95**, Non-Member USA \$13.95. Other countries write for quote [sales@nrcdxas.org](mailto:sales@nrcdxas.org).

### Antenna Reference Manual Volume 1 (ARM1)

8th Printing Digitally Enhanced and Updated for 2005! This book features the plans for the original NRC 4' FET Altazimuth loop antenna. Revised in the Spring of 2005 with digitally enhanced drawings and updated material sources! This manual also contains other articles on the subject of antennas for medium wave DXers, most were originally published between 1969 and 1974 in **DX News**. Includes articles on air-core and ferrite core loops, antenna tuners for longwire antennas and antenna couplers. This is the original book which has been available for over 20years. 8 1/2" X 11" bound book format.

#### ARM-1 Contents:

NRC FET Altazimuth Loop  
Thoughts on FET Loop Construction  
Tips on Loop Construction  
Balanced and Unbalanced Loops  
A 'Collapsible' Loop for Travel  
Antenna Tuning Devices for Longwires  
The Hawk Loop  
Balanced FET Amplifier  
NRC Two Foot Loop  
One Transistor Loop amplifier  
Direct Coupled Loops  
BCB DXers Beverage  
'Bob Flick' Loop Antenna Coupler  
Alternative Methods of Air Core Loop Amplification

Price: **IRCA/NRC Member USA \$8.95**, Non-Member USA \$11.95. Other countries write for quote [sales@nrcdxas.org](mailto:sales@nrcdxas.org).

### Antenna Reference Manual Volume 2 (ARM2)

5th Printing Updated and Digitally Enhanced For 2005! This manual has also had digitally enhanced drawings and updated material sources added in the Spring of 2005. This manual is a compilation of numerous articles on the subject of antennas for medium wave DXers. Originally published between 1974 and 1981 in **DX News**. Some articles were formerly available as reprints. Includes articles on air-core and ferrite core loops, antenna tuners for longwire and Beverage antennas and phasing units for use with Beverage antennas and longwires. 8 1/2" X 11" bound book format.

#### ARM2 Contents:

A Good Loop is Easy and Cheap to Make  
The "Harley Loop"  
Whip Antenna Coupler for Portable Receivers  
The Wedge Loop  
AC Power Supply for FET Loop Amplifiers  
Antenna Phasing  
FET Loop Amplifier with Coaxial Output  
Practical Phased Beverages  
Phasing Unit Construction and Use  
More on Phased Beverages  
Phasing Unit Design Modifications  
More Thoughts on Beverages  
Floor Stand and Mounting Arrangements for Loops

Price: **IRCA/NRC Member USA \$8.95**, Non-Member USA \$11.95. Other countries write for quote [sales@nrcdxas.org](mailto:sales@nrcdxas.org).

### Antenna Reference Manual Volume 3 (ARM3)

This manual is a compilation of numerous articles on the subjects of antennas, phasing, impedance matching and RF amplification for medium wave DXers. Some of the articles have been published in **DX News** between 1999 and 2004. Some articles were formerly available as reprints. 8 1/2" X 11" bound book format.

#### ARM3 Contents:

All Articles by Mark Connelly WA1ION unless noted  
BBL-1 Broadband Loop Antenna (Parts a & b)  
Pennant Antenna with Remote Termination Control  
Flag Antenna Construction and Test Results  
Three Loop Antenna Array with Electrically-Rotatable Nulling  
Phased Spaced Active Whips and Broadband Loops  
Medium Frequency Amplifier Circuits Compared  
TMB-1 Tri-Mode Buffer Amplifier Box  
DXP-3 DXpedition Phasing Unit  
Superphaser-2 Phasing Unit  
FCA-1 Feedline Coupling Adaptor  
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Broadband Receiving Antenna Matching  
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# Yavapai Broadcasting Corporation

3405 E. State Route 89A ~ P.O. Box 187 ~ Cottonwood AZ 86326  
Phone (928) 634-2286 ~ Fax (928) 634-2295

November 6, 2019

Martin Foltz  
25102 Pradera Drive  
Mission Viejo, CA. 92691

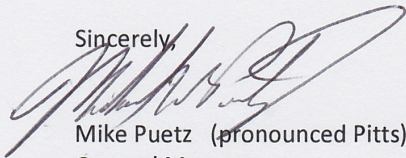
Mr. Foltz,

I read with great interest you letter dated 10/29/19. In your letter you wrote about listening to KYBC-AM 1600 on Sunday, October 27<sup>th</sup> from 9:43 until 10:02 PM.

So that you know I went through our programming logs for that date and time and will verify that the programming you were listening to was indeed KYBC. Absolutely incredible that you were receiving our radio station in California when we are a 1,000 watt daytime AM station that reduces our night time power to 46 Watts. Obviously for you to be hearing our signal at that time of night means that the atmospheric conditions must have been just right to allow for that type of signal skip.

Thank you for taking time to write and best of luck to you with your radio listening hobby.

Sincerely,



Mike Puetz (pronounced Pitts)  
General Manager  
Yavapai Broadcasting



## YAVAPAI BROADCASTING CORPORATION