



DX MONITOR

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2019 Convention Mouse Pad	

The 2019 convention mouse pad picture follows the "back page" and they are available through the Bookstore/Goodie Factory for \$4.00. This issue, IRCA welcomes **Dario Monferini** in Milan ITALY. Seattle deadline for our next issue (V57_N30) is **Monday 04/27/20 1200** PLT (two weeks) – pb

2020 Convention

The 2020 **IRCA/DecalcoMania** Convention will be held at the Four Points by Sheraton, 1221 S Harbor Blvd, Anaheim CA 92805. (North of Disneyland) September 10-12 2020. Phone number for reservations is 714-758-0900 (mention convention). Guest room rate is \$115 per night plus tax and includes all you can eat breakfast. Parking is \$10 per day. Registration fee (not including banquet) is \$25 payable to Mike Sanburn PO Box 1256, Bellflower CA 90707-1256. Activities will include station visits, IRCA business meeting and auction, and nightly fireworks show. Hotel amenities include free Wifi, 24 hour business center and 24 hour pool. Local eateries within walking distance are Starbucks Coffee, Taco Bell, and Shakeys Pizza. Cutoff date for room reservations will be August 20th. More details will appear soon. For information contact mikesanburn@hotmail.com. Website for Anaheim visitor's information: www.visitanaheim.org. Here is the link for making reservation at Four Points <https://www.marriott.com/event-reservations/reservation-link.mi?id=1576099122178&key=GRP&app=resvlink>

Folks can send their registration fee via PayPal at mikesanburn@hotmail.com (please include name, contact info and note that it is for convention registration).



COURTESY PROGRAMS COMMITTEE – Les Rayburn – 121 Mayfair Park – Maylene AL 35114
Email: les@highnoonfilm.com

Greetings! My name is **Les Rayburn**. I'm honored to be selected to head up the CPC for both the NRC and IRCA. I'm an Extra Class amateur radio operator (N1LF) and a lifelong DXer. In ham radio world, I have always been active in weak signal modes on LF, 160 Meters and VHF. I also enjoy chasing new grids on satellites. As a young man, I was a submarine Radioman, (RM1-SS) serving on nuclear boats in the Atlantic.

The history of Courtesy Program Committee (CPC) is a long and storied one... going back to the earliest days of both clubs. Traditionally, its role was to coordinate special DX Tests with stations, often during Sunday night-Monday morning maintenance periods.

These special broadcasts were conducted a courtesy to DXers seeking to log new stations, which gave rise to the name.

This is actually my second stint of service in this position. During my previous tenure in the mid-2000's, we were able work with broadcasters to set up several tests, including one massive "coordinated" tests where multiple stations participated in one evening. Fun times!

We also sought ideas from the DX communities. These contributions resulted in some innovative types of tests including a Top of the Hour (TOH) "cart" test. Basically, we provided either a :60 or :30 second "commercial" to stations, which included Morse Code ID's, sweep tones, etc. These would be placed into the station's overnight inventory of spots, and aired as close to the ToH as possible.

No change in power, or directional arrays, but unique source material proven to cut through the noise. Even better these sometimes ran for weeks at a time – allowing time for propagation to be enhanced. We hope to bring these back, and come up with even more great ideas to expand the possibilities of DX Tests.

My hope is that we can approach broadcasters with respect, and an understanding of the challenges that they are facing. All DXers should understand that any DX test is indeed, a courtesy.

Let's put some new ones in the logs!

73, **Les Rayburn** N1LF – 121 Mayfair Park – Maylene AL 35114



BROADCASTING INFORMATION – Robert J Wien – 8912 Oso Corridor PL NW – Albuquerque NM 87114
Email: wienbob@aol.com Phones: 505-898-1677 (home) 909-997-7904 (cell) Column Deadlines: Saturdays

DATE OF COLUMN: April 04 2020 **Column data span:** March 21-April 04 2020, Data courtesy of Stationintel.com, FCC database and member contributions.

CALL CHANGES

FREQ	OLD CALL	CITY OF LICENSE	NEW CALLS
910	WALT	Meridian, MS	WMOG
920	KBAD	Las Vegas, NV	KRLV
1340	KRLV	Las Vegas, NV	KKGK

FORMAT, SLOGAN AND SILENT STATUS CHANGES

FREQ CALL CITY OF LICENSE

630	WJAW	St Marys, WV
660	WESC	Greenville, SC
670	WRJR	Claremont, VA
780	WTME	Rumford, ME
800	WSVS	Crewe, VA
810	KXOI	Crane, TX
920	WMMN	Fairmont, WV
1000	WHNY	Paris, TN
1010	WTZA	Atlanta, GA

NEW INFORMATION

was ESPN sports, now classic country, old slogan: "The Mid-Ohio Valley's ESPN Radio", new: "JAWS Country"
 now silent
 now silent
 now silent
 old slogan: "Virginia's Country Legend", new: "Pure Country"
 old slogan: "Radio Alabanza", new: "La Nueva Radio Alabanza"
 old slogan: "AM 920 The Ticket", new: "FM 95.7 The Ticket AM 920"
 was Westwood One Mainstream Country, now Westwood One Real Country
 was Spanish contemporary Christian, now talk, old slogan: "Vida 102.1 FM and 1010 AM", new: "Talk Of Atlanta", now silent
 now silent
 now silent
 now silent
 was Fox Sports Radio, now SB Nation Radio
 old slogan: "News and Sports Talk 1230", new: "Let's Talk 1230 AM"
 now silent
 old slogan: "The Greatest Hits Of All Time", new: "WENK 95.5 FM – 1240 AM"

1130	KXET	Mount Angel, OR
1140	WPNS	Destin, FL
1210	KMIA	Auburn-Federal Way, WA
1230	WAUD	Auburn, AL
	KLVT	Levelland, TX
1240	WEZR	Lewiston, ME
	WENK	Union City, TN

1250	WGL	Fort Wayne, IN	now silent
1280	KZFS	Spokane, WA	was country, now classic hip hop, old slogan: "Kix 99.3", new: "Hooptown 101.5"
1310	WTLB	Utica, NY	old slogan: "ESPN 1310", new: "ESPN Radio Utica-Rome"
	WICU	Warren, PA	was talk, now hot adult contemporary, old slogan: "NewsTalk 96.7", new: "Happi 92.7"
1340	WHAT	Philadelphia, PA	old slogan: "Z 99.9", new: "La Kalle 99.9"
1350	WRNY	Rome, NY	old slogan: "ESPN 1310", new: "ESPN Radio Utica-Rome"
1370	KXTL	Butte, MT	now silent
1400	WILI	Williamantic, CT	old slogan: "Good Company 14 WILI", new: "WILI Good Company 1400 AM and 95.3 FM"
1450	WPNO	South Paris, ME	now silent
	KIRX	Kirksville, MO	old slogan: "Good Time Oldies 1450AM 99.7FM", new: "KIRX 1450 AM, 99.7 FM"
	WJER	Dover-New Philadelphia, OH	old slogan: "1450 WJER Radio", new: "WJER 1450 AM and 100.9 FM"
1470	WNWF	Evergreen, AL	now silent
	KMNQ	Brooklyn Park, NY	now silent
1480	WSDS	Salem Township, MI	old slogan: "La Explosiva", new: "La Explosiva 1480 AM"
1490	KPCQ	Chubbuck, ID	was silent, back on with new unknown format
	WRMT	Rocky Mount, NC	now silent
	KJNT	Jackson, WY	was silent, back on with new unknown format
1510	WCAZ	Carthage, IL	changes city of license from Macomb to Carthage
	KNNS	Larned, KS	old slogan: "Patriot 105.7", new: "The Patriot"
1550	KMRI	West Valley City, UT	now silent (due to quake-ye ed)
1590	WTPA	St Petersburg, FL	was silent, back on with new unknown format
	WPUL	South Daytona, FL	now silent
1600	WKWF	Key West, FL	now silent
	KLEB	Golden Meadow, LA	old slogan: "Rajun Cajun", new: "Rajun Cajun 102.7"

MEMBER CONTRIBUTIONS

Mike Sanburn of Bellflower CA sends along the following from **Dennis Gibson** of Salinas CA via the IRCA IO Groups dated 3/24/20:

Licenses cancelled: 3-20-20: WQQW-1510 Highland, Illinois, 3-20-20: KFTK-1490 East St Louis, Illinois, 3-20-20: KZQZ-1430 St Louis, Missouri, 3-20-20: KQQZ-1190 Fairview Heights, Illinois

Mike Sanburn sends along the following from **Paul Walker Jr** of Laramie WY via the IRCA IO Groups dated 3/30/20:

I think KFUE 850 St Louis is stuck on. I've got sacred/choral music way way under KOA, but easily noticeable and it appears to match KFUE's webstream Paul, 1015pm mountain, Laramie, WY Monday March 30th.

Mike Sanburn sends along the following from **Paul Walker Jr** via the IRCA IO Groups dated 3/29/20:

780 WTME Rumford, Maine

Not permanent, they're hoping to sell the station. Company founder Dick Gleason died last year, his wife and a GM of the company have been running it since and revenue has been declining, in part because of the Corona virus and payments from clients being slow are also a cause.

<https://www.allaccess.com/net-news/archive/story/194879/gleason-media-lewiston-maine-cluster-to-go-dark-su>

On Sunday, Mar 29 2020 at 11:51 AM Old Roy 78 roybarstow731@gmail.com wrote: Off permanently. **Roy Barstow**

Mike Sanburn sends along the following from **James Nivens** of Austin TX via the IRCA IO Groups dated 4/3/20:

1680 KRJO (Monroe LA-ye ed) seems to have changed format either the 3rd or 4th of April. After checking my recordings on the 3rd of April they were still IDing as "99.7 My FM". I checked on 4th of April last night and they are now IDing as "This is the all new Classic Country, 99.7 The Legend, KRJO Monroe K259ZU 99.7 The Legend"

Hope everyone stays safe from COVID-19. The world has changed forever because of it, but DX is still there to comfort us. Comfort yourself and report your latest DX to your respective columns. We'll get through all of this. 73's. **Bob Wien**



CANADIAN RADIO NEWS – Jon Pearkins

Email: jon@pearkins.com

To provide timely updates, this column will appear in **DX Monitor** as often as new information is available. The previous Editor, **Dan Sys**, has now returned to editing his Canadian Radio News page (Facebook), the main source of information for this column, but has asked me to take over his IRCA duties.

600	BC	Vancouver	CKSP	Plans to begin testing before the end of April. Initial tests will be unscheduled, and some may be non-directional with lower power. This precedes the formal Test Period, which consists of several weeks of continuous operation with 50KW day/20KW night using the approved directional pattern sharing two of CKNW's four towers in Cloverdale.
1230	NU	Iqaluit	CFFB	Approval to modify its license to remove all Northern Quebec repeater transmitters: CFFB-FM-4 Kuujuarapik, CFFB-FM-5 Kuujuaq, CFFB-FM-6 Inukjuaq, CFFB-FM-7 Salluit and CFFB-FM-8 Puvimittuq. CFFB-FM-5 has been granted its own license with the other four repeaters attached to it. Attaching additional transmitters to a station's license implies 100% simulcasting.
1280	ON	Toronto	CJRU	Will continue to share CHHA-1610's tower even if CHHA's power increase (see below) is approved. CJRU is 99 watts full-time with a license that requires it to find a new frequency if requested by the CRTC to make way for another higher-powered station.
1420	NS	Digby	CKDY	Approved to temporarily operate on 99.7 MHz with 50 watts to give the station time to submit an application to the CRTC to convert the AM license to an FM license. CKDY-AM has been off the air since 2/26 when a copper and computer theft occurred, and some of the replacement parts were not easily obtainable.
1610	ON	Toronto	CHHA	Applied to increase power to 10KW from the current 6250 watts, using the existing 150' tall guyed mast with an easterly guy wire operating as a passive radiator to provide a Null to protect 1KW CHRN-1610 Montreal QC, WEHH-1600 Elmira Heights-Horseheads NY and CKDO-1580 Oshawa ON. The application proposes to adjust the directional pattern if a station is again licensed to 1600 to replace the former 10KW CHNR Simcoe ON. Saving the cost of running two towers reduces CHHA's signal by 30% according to the application's Technical Brief.



WESTERN DX ROUNDUP – Nancy Johnson – 2922 S Olivewood – Mesa AZ 85212-2923

Email: NancyJohnson@prodigy.net

WDXR DEADLINES: Thursday Feb. 27, March 12, March 26, April 9, April 23, May 7, May 21, June 4, June 18, July 9 and Aug. 6. Please use Eastern Local Time. For reporters in AK, AZ, CA, CO, HI, ID, MT, NV, OR, UT, WA, WY, the Canadian provinces of AB, BC and the Yukon Territory.

REPORTERS FOR THIS ISSUE:

(RB) **Rick Barton**-9444 W. Newport-Sun City AZ 85351 desertmoon_dxshack@inbox.com

HQ-140X, RF-2200, and Grundig Satellit 250, barefoot or with Terk loop

(DG) **David Gordon**-Morgan Hill CA
CCRadio3

(GH) **Glen Hansen**-64985 Olson Road-Deer Island OR 97054 **gbhansen2@outlook.com**
 Sony ICF-2010, Hammarlund HQ 180A, various wires, Kiwa loop, 835' Beverage E-W

(JCJ) **John Johnson**-2922 S Olivewood, Mesa AZ 85212 **John_Johnson@prodigy.net**
 SDRplay RSPduo, Wellbrook ALA1530LNP

(JP) **Jon Pearkins**-Edmonton AB **jon@pearkins.com**
 Sangean HDR-18 and PR-D15 barefoot

(NP) **Nigel Pimblett**-331 5th Street-Dunmore AB T1B 0J9 **nige2730@telus.net**
 Perseus SDR, Wellbrook Phased Array

(MS) **Mike Sanburn**-PO Box 1256-Bellflower CA 90707-1256 **mikesanburn@hotmail.com**
 Sangean DT 160

590 KSUB **UT**, Cedar City 4/5 0905 Fox Radio network news, local ad spots ("Southern Utah Mortuary"), mention of call. (RB-AZ)

600 KGEZ **MT**, Kalispell 3/30 1940 female jingle ID, songs by Conway, Twitty and Roy Orbison. Fair and alone on frequency, Sony with Beverage. (GH-OR)

640 KFI **CA**, Los Angeles 3/31 1441 KFI ID during rare middle of the day reception. (DG-CA)

670 KMZQ **NV**, Las Vegas 4/5 0900 "On the Las Vegas Strip AM 6-70 KMZQ," to Townhall News. (RB-AZ)

760 KDFD **CO**, Thornton 4/3 2000 news, ad for Del Walmsley Show. Fair and alone on frequency with slow fades, on Sony with Beverage. A new one for me. (GH-OR)

770 KKOB **NM**, Albuquerque 3/30 2000 news on CoronaVirus and school closures. Fair and alone, slow fades, on Sony with Beverage. Not heard for some time. (GH-OR)

790 KFYO **TX**, Lubbock 4/4 0100 end of CBS news pandemic update, then ID as "Broadcasting from the... studio, this is Newstalk 98.1 and 790 KFYO...." (NP-AB)

880 KJJR **MT**, Whitefish 4/1 2300 ID into news (I think) tangled up with UniIDs. Barely on top for a second or two on Sony with Beverage. Last heard in 2007. (GH-OR)

890 KDXU **UT**, St George 3/16 2050 ad for local store, ID. In a noisy jumble with CJDC (I think) on top for a few seconds. (GH-OR)

900 KSJK **NE**, Columbus 4/4 0100 Mexican music, then English ID for the AM and an FM translator just past the hour, then straight back to music. (NP-AB)

CHML **ON**, Hamilton 3/27 2200 "...this is 900 CHML, a Corus Entertainment radio station, streaming live at 900chml.COM..." into Canadian Press news. (NP-AB)

930 KSEI **ID**, Pocatello 3/16 2100 ID into Elton John's Benny and The Jets fair to poor and choppy on HQ-180 with E-W wire. 3/31 2030 oldies in a noisy mess. Man said "Your Oldies Station KSEI," played CCR song, on Sony with Beverage. (GH-OR)

940 KGMS **AZ**, Tucson 3/27 0029 good signal albeit intermittent with KFIG nulled. Slogans "Christian Radio" and "Wilkins Radio." (MS-CA)

KMER **WY**, Kemmerer 3/27 2000 heard the TOH ID in a noisy jumble then faded away, on Sony with Beverage. A new one for me! (GH-OR)

990 KTMS **CA**, Santa Barbara 3/26 0006 caught an ID "AM 990 KTMS," with KATO and others. (MS-CA)

1020 KWIQ **WA**, Moses Lake 3/17 1820 ID and sports talk. Fair with slow fades and one UniID far under, on Hammarlund 180 with E-W wire. (GH-OR)

1050 KTCT **CA**, San Mateo 4/3 2338-0000 fading in and out, with XEG sometimes heard under, but no sign of nearby CJNB. ESPN with ID at 2359:55 but could only make out "San Mateo" and "KNBR" branding. (JP-AB)

1080 KSCO **CA**, Santa Cruz 4/8 0945 in depth local traffic reports, multiple IDs, Salem/Townhall news at 1000. Very good on bf RF-2200. (RB-AZ)

KVNI **ID**, Coeur d'Alene 4/3 0233 splitter was just "92.5 Kootenai FM," between two adult contemporary songs. All alone. (JP-AB)

1100 KNZZ **CO**, Grand Junction 3/29 1930 ID and ad for Chrome and Cruise car show, Applebee's Restaurant. Fair and alone on frequency on Sony with Beverage. (GH-OR)

1110 KFAB **NE**, Omaha 3/26 2000 lady said "1110 KFAB your traffic and weather station." In a mix with UniID probably KBND on Sony with Beverage. Long time no hear. (GH-OR)

1120 KANN **UT**, Roy 4/3 0234-0237 all alone to the SSW then fading out to KMOX, playing continuous Christian Adult Contemporary music with titles like "Never Stop Pushing" and "You Love Me Anyway." (JP-AB)

1170 KYET **AZ**, Golden Valley 4/8 2035 country music to good ID by man "On 11-70, KYET." They have more than one format giving the ID, sometimes with FM sister station IDs. Very good on Grundig Satellit portable and stock loop. 140mi., 6kw, daytime, but sounding like a local station at tune-in. (RB-AZ)

KPUG **WA**, Bellingham 4/3 0244-0246 back to back in-house promos for the TuneIn app and the ESPN Morning Show mentioning "K-P-U-G" almost a dozen times. (JP-AB)

1200 WOAI **TX**, San Antonio 3/29 1935 end of newscast and local weather report. Fair signal way above CJRJ which typically dominates, on Sony with Beverage. (GH-OR)

+4/3 2334 all alone with "WOAI" ID. Unusual to hear WOAI at all here now that CJRJ and KFNV are on the air, and never heard all alone since those two stations launched. (JP-AB)

1210 KGYN **OK**, Guymon 3/31 2000 ad for Church of Guymon. Heard several times but difficult to ID because usually running sports. No sports now! Man said "Right here on KGYN." Finally logged this one! Sony with Beverage. (GH-OR)

KHAT **WY**, Laramie 3/25 1930 ID and C&W music. Tangled up in a noisy jumble with UniIDs on SP-600 and E-W Beverage. Heard regularly this season. (GH-OR)

1230 KGHS **MN**, International Falls 4/4 0100 ID "Your home for Minnesota Twins baseball and Wild hockey on KGHS 1230 AM, 95.3 FM in International Falls, Minnesota," then ABC news. (NP-AB)

1240 KTIK **OR**, Pendleton 3/25 1945 sports talk, ad for local business. Very weak above at least one other UniID on SP-600 with E-W Beverage. (GH-OR)

1250 KNEU **UT**, Roosevelt 3/24 2124 ID "When you're on the drive home, Real Country KNEU 1250," song "Oh Lonesome Me." (MS-CA)

1270 KTFI **ID**, Twin Falls 4/3 0258-0302 many mentions of "Catholic Radio" in the local promos but no mention of "Salt and Light Radio." Live EWTN phone-in show began at 0302. Detuned PR-D15 to 1272 to overcome CFRN-1260 slop. 4/6 0559-0600 one-minute promo on how to make your will out to "Salt and Light Radio" but no mention of "Catholic Radio." (JP-AB)

?KIML? **WY**, Gillette 4/4 0001-0007 Fox news sounder music heard at 0002 into commercial and fade out, then faded in briefly at 0005 sounder ending news, and faded in again at 0007 into sports talk. Detuned to 1272. KIML appears to be only feasible possibility and the antenna was in the right direction. 4/5 0400-0408 Fox News then into Coast to Coast. (JP-AB)

1300 KLER **ID**, Orofino 4/4 2330 ID and C&W music. Choppy and weak but above the pack. Some KAPL in there from time to time as well, on HQ180A and E-W wire. Heard occasionally. (GH-OR)

KVET **TX**, Austin 3/30 0600 ID as "Live from the Bud Lite studio we are AM 1300, 103.1 FM The Zone, KVET-AM, KVET-HD2, K276EL..." then into Fox Sports. (NP-AB)

1330 KGAK **NM**, Gallup 4/5 2030 man in Navajo language long string of local ad spots and area code 505 references well before local sunset. (RB-AZ)

1420 KUJ **WA**, Walla Walla 3/28 1945 home improvement talk show, fair signal with no sign of KITI which usually dominates, on Sony with Beverage. (GH-OR)

1440 KRDZ **CO**, Wray 4/3 2315 "On AM 14-40 KEDZ," oldies rocker hits from Journey, Heart, etc. Up and down, but still dominating the frequency on barefoot RF-2200. (RB-AZ)

1450 KCJV **WY**, Jackson 3/28 0800 Bott Radio ID on the hour, then into Turning Point program. (NP-AB)

1460 (KTYM) **CA**, Inglewood 3/24 0830 off the air leaving me with KION, KENO and Mexican station. (MS-CA)

KION **CA**, Salinas 3/24 0854 talking about food safety training videos, mentioned Carmel Valley, Fox News. (MS-CA)

1480 KVNR **CA**, Sana Ana 4/7 1000 ID by woman and slogan "Little Saigon Radio." (RB-AZ)

1500 KSTP **MN**, St. Paul 3/24 0100 ID and sports talk. Fair and alone with slow fades, on JRC with E-W wire. Heard occasionally. (GH-OR)

1510 WLAC **TN**, Nashville 4/1 briefly weak during a KCKK fade. 0100 with "1510 WLAC Nashville" into Fox News. Quickly lost when KCKK faded back up. New, first time heard from Arizona. (JCJ-AZ)

1540 KXEL **IA**, Waterloo 3/22 20000 man said "1540 KXEL Waterloo, Cedar Falls." Mixed up in a choppy jumble, weak on HQ-180 with E-W wire. (GH-OR)

1590 KVG B **KS**, Great Bend 3/28 1930 talk show of some sort, ID at TOH. Weak and mixed up with UniIDs on Sony with Beverage. Heard once before in 2010. (GH-OR)

Thank you to our WDXR reporters. Stay safe everyone! – Nancy 4/10 1700



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

RIDING GAIN

- [EB-MO] **Eric Bueneman**, Hazelwood MO **N0UIHeric@gmail.com**
 CountyComm GP-5/SSB Gen 3 and CCrane CCPocket Ultralight receivers, Grundig AN-200 tunable loop, Yaesu FRG-7, Worcester Space Magnet II, National NC-60 Special, Apex 303WA-2 AM/FM/LW/SW vertical antenna
- [WE-TX] **Ward Elliott**, Dallas TX **dwr759@yahoo.com**
 PL 600, PL 380, PR-D5, PR-D4, ATS-803A, TCF-Antenna, MFJ-16010, 75' random wire
- [TN-WI] **Tim Noonan**, Oak Creek WI **DXing2@aol.com**
 Kenwood R-1000, Radio West Loop
- [RW-NM] **Robert Wien**, Albuquerque NM **wienbob@aol.com**
 C-Crane Radio

DOWN THE DIAL

- 570 KLIF **TX**, Dallas. 4/1 fair signal over WKYX. 0807 noted with local news, with numerous stories on the COVID-19 pandemic and mention of Texas Governor Greg Abbott. [EB-MO]
- 630 KSLR **TX**, San Antonio. 3/20 good in KHOW null. 0316 with "We're AM 630 The Word, KSLR" ID into religious program. [RW-NM]
- CFCO **ON**, Chatham. 4/2 fair signal through KYFI. 0349 noted with "CFCO" ID into Country format. [EB-MO]
- 640 KWPN **OK**, Moore. 4/2 fair signal over WOI. 0347 noted with local spot, "Serving the Great Southwest, ESPN Six-40" ID into *ESPN Sports Center All Night*. [EB-MO]
- WOI **IA**, Ames. 4/3 fair signal over KWPN, WCRV. 0429 noted with underwriting announcement, promo, "The talk of Iowa, IPR" mention into BBC News. [EB-MO]
- 650 WSM **TN**, Nashville. 3/30 good in CKOM, KGAB nulls. Well over XETNT. 0313 with country music and a nice WSM ID. Much stronger than usually in the mix. [RW-NM]
- 670 KHGZ **AR**, Glenwood. 3/26. 2352 out of country song with "Southwest's Arkansas' Caddo Radio" slogan and mention of the KHGZ Facebook page "...we are marketing gurus." [WE-TX]
- 780 WIIN **MS**, Ridgeland. 4/9 fair signal in WBBM null. 0610 noted with Blues format, "Blues 93-point-One" ID and local announcement. Must have been left on overnight. [EB-MO]
- 820 WCPT **IL**, Willow Springs. 3/28 fair signal in WBAP null. 0645 noted with station promos, "WCPT, Chicago's progressive talk" slogan into local spots. Must have been on day power and pattern. [EB-MO]
- WVSG **OH**, Columbus. 4/3 fair to poor signal, mixing with WBAP. 2048 noted with *The Daily Mass* broadcast, *Breaking the Bread* feature into choral music. The programming matches the Saint Gabriel Radio Web site. [EB-MO]
- 840 KWDF **LA**, Ball. 4/3 fair through WHAS. 0459 with "AM Eight-40 KWDF" ID, weather forecast and legal ID. Must have been left on overnight. [EB-MO]
- 850 KFYO **MO**, Clayton. 4/1 very weak in KOA null, IBOC splash from KJFA 840. 0105 to 0130. Per tip from **Paul Walker**. Never faded up strong enough to ID, so though to hear anything but the music. Not there on 4/2. [RW-NM]
- WKNR **OH**, Cleveland. 4/1 good signal in KOA null. 0713 noted with local spots, promo, "Eight-50 ESPN" ID, "ESPN Cleveland" mention. [EB-MO]
- WQRM **MN**, Duluth. 3/20 fair. 1959 with legal ID and "Christian Information Radio" slogan. Needed for all change. [TN-WI]
- 860 KKOW **KS**, Pittsburg. 3/30 good over others. 0320 with "AM 860 KKOW and FM 97.5 Joplin" ID. [RW-NM]
- WSON **KY**, Henderson. 4/9 fair in CJBC null. 0310 noted with Classic Hits format, "Eight-60 AM, 96-point-Five FM WSON" ID. [EB-MO]
- 880 WIJR **IL**, Highland. 4/5 fair to poor signal, mixing with WCBS. 0718 noted on night power with local spots in Spanish. [EB-MO]
- 920 WMPL **MI**, Hancock. 4/2 fair to poor signal, mixing with KARN and KDHL. 0258 noted with local spots, "WMPL" ID in promo. [EB-MO]
- 960 KZIM **MO**, Cape Girardeau. 3/28 at 05:00 with KSIM calls after a PSA. Then at 0535 "KZIM 101.7, KZIM when you need it" ID. [WE-TX]
- 1010 KSIR **CO**, Brush. 3/30 good in KBBW null, over CBR. 0325 with a nice "AM 1010 KSIR Brush" ID. [RW-NM]
- WHIN **TN**, Gallatin. 4/2 fair signal in KXEN null. 0630 with Adult Contemporary format, "The new 100-point-Seven WHIN" ID into local spots. [EB-MO]
- CFRB **ON**, Toronto. 4/2 fair, mixing with other stations in KXEN null. 0801 with traffic report, "News, talk Ten-Ten CFRB" ID into local news. [EB-MO]
- 1230 KGRO **TX**, Pampa. 3/28 at 0604 with KGRO mentioned twice into news, faded into rumble. [WE-TX]
- 1290 WIRL **IL**, Peoria. 3/26 fair to poor, then booming at 0120 with "...super hits WIRL" into oldies, calls mentioned again between songs. [WE-TX]
- 1320 WILS **MI**, Lansing. 4/5 fair signal through KSIV. 0659 noted with "Talk radio 13-20 WILS" ID in promo, legal ID into Fox News Radio. [EB-MO]
- 1350 WPDR **WI**, Portage. 3/27 good to fair signal, mixing with other stations. 0133 noted with weather forecast, "AM 13-50 WPDR" ID into Oldies format. May have been on day power. [EB-MO]
- 1380 WKJV **NC**, Asheville. 3/29 good to fair signal, nearly taking out KXFN. 0435 noted with Southern Gospel format and local announcements. Must have been on day power and pattern.
- 1430 KROL **MO**, Carrollton. 4/5 poor signal, mixing with other stations; local pirate KZQZ off. 0431 poked through with mention of 101.3 FM (K267BN) in promo into a local spot. AM #130 from the Show-Me State. [EB-MO]
- WRMG **AL**, Red Bay. 4/4 fair signal over others; local pirate KZQZ off. 0246 noted with "This is the big one, 97-point-Nine WRMG, your classic oldies station" ID into Oldies format. Left on overnight. [EB-MO]
- CHKT **ON**, Toronto. 4/5 fair to poor signal, mixing with other stations; local pirate KZQZ off. 0520 noted with light vocal music, "CHKT" ID in heavily accented English and announcement in Chinese. [EB-MO]
- 1480 KKCC **MN**, Fosston. 3/11 good. 2000 ID mentioned their 99.7 translator going into ABC News. New. [TN-WI]
- WHBC **OH**, Canton. 4/8 fair signal over WJBM. 0529 noted with local spot, "News radio 14-80 WHBC" ID into local news with mention of the previous night's severe weather and weather forecast. [EB-MO]
- 1520 KYND **TX**, Cypress. 4/2 coming in reasonably well over and under KOKC. Some IBOC splash from KOAZ 1510. 0620 to 0710 with promo loop for station programming. Mentioned 25kW power and to call Bill at 281-373-1520 to discuss advertising on KYND. Had to be on daytime power. [RW-NM]
- 1560 KEBC **OK**, Del City. 3/31 fair to poor signal, mixing with WGLB. 0725 noted with talk on NFL coaching changes, "NBC Sports Radio" mention into local spots. [EB-MO]
- 1580 KHGG **AR**, Van Buren. 3/26 noted at 22:02 with "You're listening to KHGG... Mansfield... and we appreciate it" ID during re-broadcast of an old Pirates vs Cardinals game on the Cardinals Sports Network. [WE-TX]
- 1600 KNWA **AR**, Bellefonte. 4/2 fair to poor signal, mixing with KGYM and other stations in KATZ null. 0745 noted with "KNWA, 16-hundred AM and 97-point-Five FM" ID into Country format. [EB-MO]
- 1680 KRJO **LA**, Monroe. 4/7 good signal over WPRR. 0234 noted with Classic Country format, "The greatest Country ever made, 99-point-Seven the Legend" ID. [EB-MO]

UnID

- 560 UnID 3/31 0330 UnID with country music. Good at times in KLZ null. Loop NW/SE. Noted over an UnID talk station (KSFO?) and country KMON? Faded out after a while with no return. [RW-NM]

FLASHBACK

50 Years Ago – April 4 1970 issue of "DX Monitor" ... **Harry L Helms Jr** of Fort Mill SC said most stations in Dixie regard DXers as harmless nuts ... **Bill Nittler** of Englewood CO told of the birth of his 5th daughter, Lesley Renee ... **Larry Godwin** of Englewood CO added New Jersey for state number 50 ... **Chuck Albertson** of Bellevue WA logged his 100th station. // **25 Years Ago – April 8 1995** issue of "DX Monitor" ... **Patrick Martin** of Seaside OR mentioned he was the first to make a reservation for the 1995 IRCA Boise convention ... **Phil Bytheway** of Seattle WA was impressed with the many excellent DX Tests that had been scheduled by **JD Stephens** ... **Ernest Cooper** of Provincetown MA told about the death of DXer **Peter Clarius** who was 80 ... **Chuck Boehnke** of Keaau HI discussed the ending of ADXR and SPEEDX clubs.

// This week's **Flashback DXer** is... **Rick Dau...**



OPEN MIKE

Thanks to Eric, Robert, Tim, and Ward for reporting this week. The next deadline for CDXR is April 24th. IRCA members in AR, IL, IN, IA, KS, LA, MN, MS, MO, NE, NM, ND, OK, SD, TX, WI, MB, SK, and NWT report to CDXR. All times are Eastern, logging over one month are tossed, Mexican stations are to be reported to DXWW. This column was typed 4-10-20. 73, John



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

Report to this column if you live in AL, CT, DE, DC, FL, GA, KY, ME, MD, MA, MI, NH, NJ, NY, NC, OH, PA, RI, SC, TN, VT, VA, WV, NB, NF, NS, ON, PEI, QC and NU.

TUNING THE DIALS THIS ISSUE:

(PS-ON) **Paul Snider**, London ON, Canada paulisnider@yahoo.com
Elad FDM-S2 software-defined receiver, Wellbrook ALA1530LN loop, MFJ-1020C as a tuner

ACROSS THE DIAL

- 920 WOKY **WI**, Milwaukee – 4/10 2300 caught a “Milwaukee’s Fox Sports WOKY” ID at the top of the hour while trying to identify a possible Christian station, “Fox Sports Radio” mentions into sports news items. A fair to very poor signal was noted, mixing with other stations. (PS-ON) (Two possibilities for your UnID Christian station: WYBY Cortland NY, which is a Bible Broadcasting Network station, like my local KYFI 630, or Family Radio’s KYFR Shenandoah IA – eb)
- 1200 WRTO **IL**, Chicago – 3/30 2250 noted with sports talk, local spots in Spanish, heard a clear “WRTO” ID at 2300. A poor to very poor signal, mixing with other stations; first time heard in London. (PS-ON)
- 1220 CFAJ **ON**, Saint Catharines – 3/29 2210 noted with Oldies format including Bobby Darin’s “Mack the Knife”, “CFAJ 1220” ID at 2223, seemed to be repeating the same ID from time to time. Apparently still testing with 1 kW and a single tower. A poor to very poor signal was noted, mostly under WHKW. (PS-ON)
- 1250 WGL **IN**, Fort Wayne – 4/9 2354 trying to identify an unknown Oldies station on 1250 for a few nights, and discovered it is WGL simulcasting WWFW 103.9 Fort Wayne. On this night, it was playing hits of the ‘70s, ‘80s and ‘90s, featuring Pat Benatar, Heart, Twisted Sister and Men at Work (Classic Hits format – eb), IDing as “103.9 Wayne FM” at 0023 4/10. Playlist confirmed via check of Web site at 1039 Wayne FM-dot-com. An occasionally fair to very poor signal was noted, mixing with WPGP. (PS-ON)
- 1300 WFGM **WV**, Morgantown – 3/31 2240 noted with a Contemporary Christian format, “92.1, 93.1 the Journey” ID, another music set, “The new WFGM, the new Journey” ID at 2253, probably on day power. A fair at times to very poor signal was noted, mixing with WJMO, WJZ, an unidentified Christian station and other stations. (PS-ON) (92.1 refers to W221DR Morgantown WV; 93.1 refers to WFGM-FM Barrackville WV – eb)
- 1570 WUBG **MA**, Methuen – 4/10 0120 noted with a Contemporary Christian format, “Thanks for listening to K-Love” mention at 0127 into another music set. Probably on day power, a good to fair signal was noted. First time heard in London. (PS-ON) (The same organization that runs K-Love also runs Air1, a Christian CHR format. Air1 was on for a few years in Saint Louis; K-Love has moved into major markets in recent years – eb)

EDITOR’S NOTES

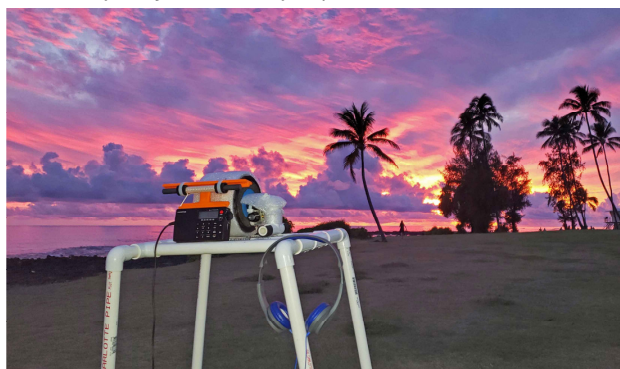
Thanks to Paul for his logs this week. As we continue to deal with the COVID-19 pandemic, the best way to spend time while you’re under a Shelter-in-Place order is DX. The Shelter-in-Place (or Stay at Home) order went statewide in Missouri on April 7. Pennsylvania shortwave DXer Rich D’Angelo summed it up best in his column, *NASWA Notes*, in the April 2020 issue of *The NASWA Journal*: “Our hobby is one that tends to be practiced indoors and alone so social distancing becomes pretty easy.” 73, stay healthy and good DX from NØUIH, the Florissant Valley Dial Twister.



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

Unless otherwise noted, all contributions are from the IRCA eGroup

November 2019 Hawaii Ultralight DXpedition Thrilling Ocean-enhanced Long Range Propagation By **Gary DeBock**, Puyallup WA, USA March 2020



The second annual Poipu, Hawaii DXpedition was conducted from November 2-8 on the southeast tip of Kauai Island, at an ocean beach location offering great propagation to all parts of the world. Australian Chris Rogers joined Craig Barnes and yours truly in a live DXing format each sunrise and sunset, with Chris bringing a Tecsun PL-880 and 20 inch PK Loop on a long distance flight from Sydney, and Craig and I using 7.5 inch loopstick CC Skywave Ultralights and 5 inch "Frequent Flyer" FSL antennas.

Hawaii is a subtropical tourist paradise in November, offering warm weather, unique scenery and many other local attractions in addition to exceptional transoceanic DX. Unlike other famous ocean beach venues like Newfoundland, Prince Edward Island and Lubec we had warm, dry weather each sunrise and sunset, with almost all of our live DXing done outdoors in the gorgeous subtropical environment. Dazzling sunrise and sunset scenery often added to the attraction of the long range DX, and we almost felt guilty when thinking about the freezing, shut-in DXers in places like Newfoundland, Sheigra and Aihkiniemi.

Like last year, the ocean-enhanced Kauai propagation provided thrilling DXing excitement both at sunrise and sunset, with so much long range DX coming from so many directions that each one of us needed to choose his own transoceanic listening priorities. For me, long range Asian DX at sunrise was the main attraction, but with the encouragement of Chris we also made serious efforts around sunset, resulting in some nice catches like 864-ERTU (8,760 miles), 800-PJB and several South Americans. All continents except Europe were received, with the recent European trend of shutting down powerful MW transmitters probably a factor. Back home in Washington state I would typically follow the tips of the Victoria BC DXers in chasing TA's, but the "Victoria regular" big gun European TA's were almost all within splatter range of Hawaiian MW pests. Some of the European big guns did seem to manage weak audio in the splatter, but the sunset long range propagation windows were too short to stick around and investigate further. On the other hand sunrise transoceanic propagation from Asia was generous indeed, with well over two hours of enhanced conditions from 1445-1710 UTC daily. An April trip to Hong Kong was especially useful in sorting out obscure Chinese stations on 531, 630 and many other frequencies.

Our Australian DXpedition partner Chris Rogers was highly motivated to chase North and South American DX from sunset into the early morning, and came away with a very impressive list of such stations (see Addendum). Craig also sampled both sunrise and sunset propagation, and like Chris and I quickly discovered that there was far more transoceanic DX on the Kauai beach than hours to track it all down, one station at a time.

In summary we all had a live DXing blast, although to be honest there was probably a lot of enhanced DX from all corners of the world that avoided our live DXing attention. Craig and I did scout out the beach with some initial ideas on how to deploy a compact broadband loop and SDR next year at the same place, although with the heavy tourist concentration and strict beach park restrictions we may be facing a tough challenge. But isn't that the fun part of chasing DX at an exotic new location – using creativity and innovation until you get the results you desire? Anyone who samples the potential of Hawaii propagation will certainly be back for more – with the inspiration to try a few new DXing tricks to make the results even better!



From left: **Craig Barnes** (Wheat Ridge CO), **Gary DeBock** (Puyallup WA) and **Chris Rogers** (Pakenham, Victoria, Australia) together in Chris' back yard in Poipu

All stations listed below were received with a 7.5 inch loopstick CCrane Skywave Ultralight and a 5 inch "Frequent Flyer" FSL antenna (on a 5 foot PVC base). DX stations which maxed out the CC Skywave bar graph during the recording are marked with an asterisk (*)

- *530* **CUBA** Radio Enciclopedia, Villa Maria, 10 kW. The strength of this station every sunset was amazing, as it was one of the first long distance stations to fade in. It was somewhat of a pest, though, occasionally blocking weak TA audio on 531. Here was a typical signal at 0407 on 11/5
<https://dreamcrafts.box.com/s/t3tj8ptf7511xtswudg182t6xw26p63i>
- 531* **AUSTRALIA** 2PM, Kempsey, 5 kW. Call-in talk radio program on the Super Radio Network //639 at an S9 level at 1603 on 11/7
<https://dreamcrafts.box.com/s/r9zqx1y3nxine3t58h41etufg0xzexwh>
- * **AUSTRALIA** 4KZ, Innisfail, 10 kW. Commercial ad string with female mention of "Innisfail" at 1:56
<https://dreamcrafts.box.com/s/694wgauav8xigxtcp28whcyu748kuyo2>
- CHINA** Zhejiang RGD synchros. Chinese female speech at a fair level with a "talker" format at 1520 on 11/4
<https://dreamcrafts.box.com/s/31ez0r0sj50o9vjn8t1oco6xl4ymzwbm>
- * **JAPAN** JOQG, Morioka, 10 kW. NHK1 male Japanese speech and interval music at an S9 level at 1512 on 11/5
<https://dreamcrafts.box.com/s/mxyxa1jxxcb581tp6hgs0ofobjubpt4>
- TAIWAN** BCC "I Go 531" Taipei, 10 kW. Long set Chinese pop music format (as heard frequently on the station while in Hong Kong) at 1645 on 11/2; the only other 531 Chinese station (Zhejiang) has a "talker" format <https://dreamcrafts.box.com/s/se2aqjsunjw1zm7f90lyx7mzx4x93p0k>
- UnID-DU** Female speech in apparent foreign language under 4KZ coming from the DU direction at 1635 on 11/5; almost certainly PI from New Zealand
<https://dreamcrafts.box.com/s/asmn2q20kp2yt3q5r128bnr68r71me4f>
- 540 **AUSTRALIA** 4QL, Longreach, 10 kW. Male conversation //549 mixing with Rhema at 1523 on 11/7
<https://dreamcrafts.box.com/s/kb50luunic1uwc7525n864mjbofx2q9z>
- * **CHINA** CNR1 synchros. Muffled Chinese male speech hitting an S9 level over NHK1 at 1515 on 11/5
<https://dreamcrafts.box.com/s/n53jrsb8est5uvu1hijtdk5nogk0oke>
- JAPAN** NHK1 synchros. Japanese male conversation //729 mixing with CNR1 at 1519 on 11/5
<https://dreamcrafts.box.com/s/twtql2qxsww2zt8egwdwocqff73zzt5z>
- NEW ZEALAND** Rhema synchros. New Zealand news and weather report at very good strength at 1503 on 11/6
<https://dreamcrafts.box.com/s/2842z2ptalg40wu9368645fbb79u76he> Christian "Focus on the Family" program in Yankee English over 4QL at 1522 on 11/7 <https://dreamcrafts.box.com/s/j6tk2nj72eb35q1aqt2574edmwimwz3ul>
- * **SAMOA** 2AP, Apia, 5 kW. Full 15 minute sign on routine at 1545 on 11/4 with two Christian songs and Samoan male speech at an overwhelming level
<https://dreamcrafts.box.com/s/f0oji81qa7oo3moqf51vsp8fvydvxydz>
- 549 **AUSTRALIA** 2CR, Orange, 50 kW. Male conversation and music //540 over weak UnID station at 1528 on 11/7; 550-Maui made this frequency dicey at times <https://dreamcrafts.box.com/s/wtn75hnyvpz3enlpk9vnte5sxqftov2b>
- * **CHINA** Fujian, 1200 kW. Big gun propaganda station was at overwhelming strength, silencing 550-Maui splatter with Chinese female speech at 1520 on 11/5 <https://dreamcrafts.box.com/s/gfzalx9gc3z3isdjlkfinit3oprhjhy0>
- UnID-DU** Weak DU English station mixing with 2CR and CNR5 at 1528 on 11/7; possibly TAB Trackside
<https://dreamcrafts.box.com/s/wtn75hnyvpz3enlpk9vnte5sxqftov2b>
- 558 **AUSTRALIA** 4AM, Mareeba, 5 kW. Australian call-in talk back on the Super Radio Network at 1515 on 11/4, with mention of "Mareeba" in a local ad at 1:03; thanks to William Renton for deciphering <https://dreamcrafts.box.com/s/y9lysayaz230vktyr7zv3uf0lec9pc4a>
- * **FIJI** Radio Fiji One, Suva, 10 kW. This Pacific island music station was fairly potent in Hawaii, with this music and ID (at 23 seconds) at 1524 on 11/6
<https://dreamcrafts.box.com/s/jlaite18tf71wdjp6wtyhza3142rkfhw> S9 choral music at 1532 on 11/7; this is the typical format of the station
<https://dreamcrafts.box.com/s/rm97jgvk1uq40rglzfjuggjfcleqbm> More S9 choral music at 1533 on 11/6
<https://dreamcrafts.box.com/s/9cnij6k4xhq77b0sijx1a8jnsnmhbd6hl>
- * **JAPAN** JOCR, Kobe, 20 kW. Overwhelming strength with music and Japanese speech at 1523 on 11/5; this station acted like a big gun almost every morning <https://dreamcrafts.box.com/s/6mki3j53ywid8zve2kuuk1n6xmfwvmy7>
- p **NEW ZEALAND** Radio Sport, Invercargill, 5 kW. Presumed the one with Yankee-accented male speech under Fiji One's foreign language at 1635 on 11/5
<https://dreamcrafts.box.com/s/mmqqiw52sbz4oiape5b6v0x6pbwtrwzh>
- SOUTH KOREA** HLQH, Daegu, 250 kW. Male-female Korean conversation at 1522 on 11/3, but //603 plastered by CRI at the time
<https://dreamcrafts.box.com/s/95uzblvge9rki7bxd13mfw6tn1fp9mlb>

- 567 **JAPAN** JOIK, Sapporo, 100 kW. Splatter-challenged reception //729 only 3 kHz away from Kauai local on 570 at 1545 on 11/5
<https://dreamcrafts.box.com/s/5a0ngpxqp9tuotjpbx8bdqyh5lker2u0>
- 585p **AUSTRALIA** 2WEB, Bourke, 10 kW. Presumed the one with the usual late night music format not //792 at 1536 on 11/7; some 590 Honolulu splatter
<https://dreamcrafts.box.com/s/dqgp27pj8k9hyxw53hdhe3e0f7er87vz>
AUSTRALIA 7RN, Hobart, 10 kW. Good level female conversation //792 through 590 Honolulu splatter at 1513 on 11/6
<https://dreamcrafts.box.com/s/0q906xeuvdt95gt2h8fe694i23nh0mmm>
JAPAN JOPG, Kushiro, 10 kW. Splatter-challenged reception //594 at 1548 on 11/5; modest signal, and unable to null 590-Honolulu
<https://dreamcrafts.box.com/s/jaqd8uzolxg1a8q0x6t0dhnkvnrre0>
- 594 **AUSTRALIA** 3WV, Horsham, 50 kW. Male-female conversation //702 through 590 splatter at 1540 on 11/7; UnID female speaker underneath in mystery language
<https://dreamcrafts.box.com/s/erswva5bnqn60ffw0mrriq0ktx7haj1i>
JAPAN JOAK, Tokyo, 300 kW. Getting through 590 splatter fairly well with music and speech //585 at 1555 on 11/5
<https://dreamcrafts.box.com/s/epvmwv8h5c04f8hcoan29qsvs6vulnyg>
UnID-Asian female speech under 3WV at 1540 on 11/7; doesn't sound like Japanese – more like an unusual Asian language
<https://dreamcrafts.box.com/s/erswva5bnqn60ffw0mrriq0ktx7haj1i>
- 603 **AUSTRALIA** 2RN, Nowra, 10 kW. Female speech //792 under 4CH male speech at 1546 on 11/7; only heard once during the trip
<https://dreamcrafts.box.com/s/9w6lbb5wtn6yr7iry5cgzy0x4c4f0z5n>
AUSTRALIA 4CH, Charleville, 10 kW. Male conversation //612 at good level over Radio Waatea at 1547 on 11/7
<https://dreamcrafts.box.com/s/iin6omczdvtqmuuiuioviw2etoqbicr>
CHINA CRI, Dongfang, 300 kW. Vietnamese service signing on with ToH chimes at 1600 on 11/4, temporarily wiping out HLSA
<https://dreamcrafts.box.com/s/e11fk4d7192ekg2wf6biget5f3oituj1>
NEW ZEALAND Radio Waatea, Auckland, 5 kW. The usual male Maori announcer playing Maori music at 1545 on 11/7, until losing the battle with 4CH
<https://dreamcrafts.box.com/s/kjs0oaujh131kw9f1rlhtxouaax22yxy>
- * **SOUTH KOREA** HLSA, Namyang, 500 kW. Strong Korean female and male speech during ToH routine at 1558 on 11/5
<https://dreamcrafts.box.com/s/l8r47bvrum24g8m256g0hhrkmfw1j3j>
UnID-China Chinese-inflected female speech mixing with rock music from HLSA at 1543 on 11/4 – maybe Hulun Buir? Doesn't sound like CRI
<https://dreamcrafts.box.com/s/tkepm0hot1t0vi426cwr4k1t4ko5o1gr> The K-Pop song on HLSA during the recording is "Summer Love" by Ulala Session (thanks to Chris Kadlec) <https://www.youtube.com/watch?v=uzbqvZj4BGY>
- 612* **AUSTRALIA** 4QR, Brisbane, 50 kW. Call-in quiz at overwhelming strength at 1548 on 11/7; this station and 630-4QN were at S9 strength every morning
<https://dreamcrafts.box.com/s/g4hsaogp8no36i0e582otbdepbpt86p5>
JAPAN JOLK, Fukuoka, 100 kW. Good-strength Japanese stock report //729 at 1610 on 11/5
<https://dreamcrafts.box.com/s/bpvmria5clw1odidaiww4fh9lu3p5ldt>
UnID-Philippines Male Tagalog speech in null of 4QR from 26 seconds to 41 seconds in this recording at 1622 on 11/2, followed by instrumental music – DYHP? (Thanks to Jari S for language suggestion) <https://dreamcrafts.box.com/s/e7hqymprj7i90vekb0dm4o0azeqilb0v>
UnID-Philippines Female Tagalog speech in the null of 4QR from 1:40 to 2:15 in the recording at 1622 on 11/2; DWSP? (Thanks again to Jari S for language suggestion) <https://dreamcrafts.box.com/s/e7hqymprj7i90vekb0dm4o0azeqilb0v>
- 621 **AUSTRALIA** 3RN, Melbourne, 50 kW. Male conversation about western civilization //792 on a noisy frequency at 1558 on 11/7
<https://dreamcrafts.box.com/s/l7tur9fv88rbno2o3462baa8w73ekvl>
- p **CHINA** Heilongqiang, 200 kW. Presumed the one with Chinese female vocal music all alone for a few seconds until replaced by Pyongyang BS' female vocal music at 1520 on 11/2 <https://dreamcrafts.box.com/s/98d7obyqvwihuy8auvy9uzhjaex9j5>
NORTH KOREA Pvonqvana BS, Chonjin. 500 kW. Typical female vocal music and Korean speech at good level at 1521 on 11/2 (with somewhat degraded audio due to an off-frequency transmitter, a long term issue) <https://dreamcrafts.box.com/s/q2nfia19yxvxhgrklcwjffghituf71vd>
* **TUVALU** Radio Tuvalu, Funafuti, 5 kW. Typical island choral music at a typically strong level at 0828 on 11/2
<https://dreamcrafts.box.com/s/cl2ho45963me9x4a9xf4hcavurstp8af> Male speech in the island language at 0821 on 11/2
<https://dreamcrafts.box.com/s/lvre51bbptical15e3c0v9arvks5wt22>
- 630* **AUSTRALIA** 4QR, Townsville, 50 kW. ABC fanfare at typically overwhelming strength at 1600 on 11/7; an UnID station with 5+1 pips is underneath
<https://dreamcrafts.box.com/s/c1vsqk6k6prsdck43f4dt6ch7eln2f0> Australian weather report and ABC promo at an S9 level at 1603 on 11/7
<https://dreamcrafts.box.com/s/8q7vxlxa2ifzbmzq3xau4adv9334mh86>
- * **PHILIPPINES** DZMM, Quezon City, 50 kW. S9 strength all alone with female ID at 53 seconds ("DZMM, 55 years in the service of the Filipino") at 1623 on 11/2 <https://dreamcrafts.box.com/s/pytyd1r42mbi6tynnqhnrnm1d90cb9p4>
TAIWAN BCC (News) Ilan, 10 kW. BCC chimes at the ToH, with both Chinese and "News Radio" English ID's (at 53 seconds) at 1500 on 11/4
<https://dreamcrafts.box.com/s/7i4x3c3vhvzp5ismea4uzaiicacds9pa>
UnID-DU 5+1 Time pips under 4QR's ABC fanfare at 1600 on 11/7; probably Radio New Zealand in Hawkes Bay
<https://dreamcrafts.box.com/s/c1vsqk6k6prsdck43f4dt6ch7eln2f0>
UnID-TP female Chinese-inflected speech under BCC's male Chinese speech around 3:45 in the recording at 1500 on 11/4; CNR2?
<https://dreamcrafts.box.com/s/7i4x3c3vhvzp5ismea4uzaiicacds9pa>
- 639 **AUSTRALIA** 2HC, Coff's Harbour, 5 kW. Male announcer with SRN news //531 at 1602 on 11/7
<https://dreamcrafts.box.com/s/a8si4b4aduwa18as5mkn6699v7120fkv>
CHINA CNR1 synchros. Muffled Chinese male speech mixing with NHK1 at 1636 on 11/2
<https://dreamcrafts.box.com/s/ishlqz0mcqe5vhmxfcov16j331zqieoc>
JAPAN JOIP, Oita, 5 kW. Japanese radio drama with female speech //594 at 1638 on 11/2
<https://dreamcrafts.box.com/s/k5qr4a9l0isfestw8q5jcqk11ifq1y34>
UnID female speech in mystery language mixing with 2HC during DU-slanted conditions at 1602 on 11/7
<https://dreamcrafts.box.com/s/kriftwebzs572ok3xdms7pivdk2hrrib>
- 657 **AUSTRALIA** 2BY, Byrock, 10 kW. Male-female speech //630 under Star music at 1605 on 11/7
<https://dreamcrafts.box.com/s/raf7f39top9hqatmnet6dlo5rzxlpbwq>
- p **CHINA** Henan, 300 kW. Presumed the one in male Chinese dominant over Pyongyang BS music at 1623 on 11/3
<https://dreamcrafts.box.com/s/qinwspvuxr6hviae8lpc5lqhw1iwu0x>
NEW ZEALAND Star, Wellington/Tauranga, 50/10 kW. Christian vocal music all alone at 1548 on 11/6 during DU-slanted conditions
<https://dreamcrafts.box.com/s/zppchqytsq1mnaw7d42su13nwaxivpgc>
- * **NORTH KOREA** Pvonqvana BS, Kanqnam, 1,500 kW. Distinctive female vocal music dominant over China at 1613 on 11/2
<https://dreamcrafts.box.com/s/msol9tqcp55jqlu69py99eriwuqg9rau>
- 666* **JAPAN** JOBK, Osaka, 100 kW. Male-female Japanese conversation //594 at 1631 on 11/4; because of local splatter on 594, this station and 729 were the strongest NHK1 frequencies <https://dreamcrafts.box.com/s/22as75a6tbb75u8x4p9avb0h099mpvu>
- 675p **VIETNAM** Voice of Vietnam 1, My Hao, 500 kW. Presumed the one with opera at 1625 on 11/2, matching schedule observed in Hong Kong
<https://dreamcrafts.box.com/s/ps1rtez16trrh54bue20lo3ix2718cj>
- 702* **AUSTRALIA** 2BL, Sydney, 50 kW. Overwhelming strength with rock music on "Overnight" program at 1510 on 11/7
<https://dreamcrafts.box.com/s/m3vtvsl5viz6a6ca1svmf5d07w21hut9>
CHINA Jiangsu RGD, Jiangsu, 200 kW. Usually in a mix with NHK2, this recording at 1500 on 11/5 features a female Chinese ID at 1:18 (thanks to Jari S for deciphering) <https://dreamcrafts.box.com/s/77pavaesxxw60lsexwweuxhh3zlb20>
JAPAN NHK2 synchros. Hiroshima/Kitami, 10/10 kW. 3+1 time pips dominant over Jiangsu at 1500 on 11/5, followed by English lessons
<https://dreamcrafts.box.com/s/77pavaesxxw60lsexwweuxhh3zlb20>
NEW ZEALAND Magic, Auckland, 10 kW. Temporarily dominant over 2BL at 1614 on 11/2 with typical oldies music "I Know I'll Never Find Another You" by the Seekers <https://dreamcrafts.box.com/s/i5ehi2atxahbiv4undxoccip4ri3oo7z>
NORTH KOREA KCBS, Chonjin. 50 kW. Distinctive female vocal music in a weak mix with male Arabic from BBC at 1516 on 11/2; this station was off frequency enough to cause throbbing hum whenever it showed up <https://dreamcrafts.box.com/s/0jvmyfb2il3elahsha7ife62lak13gj>
OMAN BBC, A'Seela, 800 kW. Anemic relay in male Arabic at 1517 on 11/2, its only appearance during the trip
<https://dreamcrafts.box.com/s/5f4pjaxl73ix0f4dw14d3elk8dkhia77> The station was quite a bit stronger during the November 2018 Kauai DXpedition
<https://dreamcrafts.box.com/s/r2v5evrlkq1pv6qvatiidzyqawoi3it7ou>
UnID-Asian apparent female English under NHK2 sign off music box and Jiangsu at 1542 on 11/5 (after 40 seconds into the recording); it would be the right time for English News on AIR Jalandhar, if that station carries English News from 1530-1545 (after wrapping up its foreign service in Punjabi at 1430)
<https://dreamcrafts.box.com/s/t9w7m6f6r88vipy7sc2gf5huvhkg5e1j>

- 711* **SOUTH KOREA** HLKA, Sorae, 500 kW. Strong interval music and female Korean speech over Chinese co-channel at 1619 on 11/3
<https://dreamcrafts.box.com/s/5cy14axw68a332rh4ce13cv488exgkh9>
- TAIWAN** Voice of Kuanghua. Hsinfeng, 250 kW. Presumed the one all alone with strong Mandarin at 1701 on 11/3; "Zhongguo zhi Sheng" male ID at 1:03; co-channel BCC is in Amoy <https://dreamcrafts.box.com/s/5cy14axw68a332rh4ce13cv488exgkh9>
- UnID-Chinese** Mandarin Chinese at fair to good level at 1640 on 11/2; unknown if this is Kuanghua or a Mainland station
<https://dreamcrafts.box.com/s/ko45oh60ow0hz9k6m6bfrw662t8xfnmh>
- 720 **CHINA** (CNR16?) The "Chinese Opera Station". Was received several times during the trip, and apparently was the source of this female vocal music at 1640 on 11/4 <https://dreamcrafts.box.com/s/xl0r6mnnsoeke0adhlg7qd1af5ik0291s>
- INDIA** AIR Chennai (Madras), 200 kW. This was the strongest AIR station overall during the trip, and the only one to be received multiple times (at 7,720 miles/12,425 km). This South Asian music and female speech in Tamil was received at 1638 on 11/4 (thanks to CK Raman for language and station identification) <https://dreamcrafts.box.com/s/odyz8bqlt7omoy6w540mevtro83q49w1> This female speech in Tamil was received at 1640 on 11/5 (thanks to CK Raman for language and station identification) <https://dreamcrafts.box.com/s/bdv9fc99v6ih97c03bvv0kyl09bxxjlg> During a South Asian music parallel check with 729, all of the South Asian music after 33 seconds in this recording at 1637 on 11/4 was from 720-AIR
<https://dreamcrafts.box.com/s/g6vxvo00f6hv0rmgb1nuhhw6x4jrlkmb>
- NORTH KOREA** KCBS, Wiwon. Distinctive female vocal music and dreary-sounding organ at 1638 on 11/5
<https://dreamcrafts.box.com/s/38xp2eha4d7wtqe2mqrs3o8zfd821gw7>
- 729 **AUSTRALIA** 5RN, Adelaide, 50 kW. Dominant over JOCK at 1603 on 11/2 with "ABC News" ID at 17 seconds
<https://dreamcrafts.box.com/s/dvvravnnetftvus8v3cdtru4wn2z08mm>
- INDIA** AIR (?) Guwahati, 100 kW. Apparent South Asian female vocal music parallel with this station under JOCK (first 31 seconds) and 720-AIR in Chennai (33 seconds until end) at 1637 on 11/4. The female vocalist sounds identical, although information isn't clear about whether these stations share parallel programming at the time <https://dreamcrafts.box.com/s/g6vxvo00f6hv0rmgb1nuhhw6x4jrlkmb>
- * **JAPAN** JOCK, Nagoya, 50 kW. Along with 666-JOBK, this was the strongest NHK1 station for parallel checks. This female vocal music was at 1653 on 11/2 <https://dreamcrafts.box.com/s/xndz6wilom8295z01fedattvnxo214q2>
- * **UnID-English** DU co-channel under a strong 5RN at 1509 on 11/7; probably one of the three New Zealand stations
<https://dreamcrafts.box.com/s/id5puiuz4n19ud6v8t2116v3bwhc9sv>
- UnID-Philippines** female in Tagalog under JOCK at 1547 on 11/3, but no idea which of the five Filipino stations is showing up
<https://dreamcrafts.box.com/s/j7io357gtmmhn21iluajqlyjg9kblao>
- UnID-Philippines** mixing with JOCK's music at an almost equal level, the female Tagalog speaker at 1643 on 11/3 sounds similar to the one in the previous recording <https://dreamcrafts.box.com/s/l55ajwudvo20d8fy4gp8f3yvw5095crq>
- 738 **AUSTRALIA** 2NR, Grafton, 50 kW. S9 level with male-female conversation from 12 seconds to 30 seconds (over BEL2 and the Rumbler) in this recording at 1612 on 11/4 <https://dreamcrafts.box.com/s/0c6a8dhtqy9hnmv9g10am56n55u5bcx5>
- * **TAIWAN** BEL2, Penghu, 100 kW. Overwhelming signal with Indonesian program at 1545 on 11/3
<https://dreamcrafts.box.com/s/uua43tjehvixla46x6idudjepyo0ngo0>
- * **RUMBLER** throbbing jammer covering BEL2's signal at 1612 on 11/4 (from start to 11 seconds, and from 45 seconds until the end). Most likely from Mainland China <https://dreamcrafts.box.com/s/0c6a8dhtqy9hnmv9g10am56n55u5bcx5>
- 783* **CHINA** Voice of the Strait Fujian, 600 kW. One of the overwhelming Chinese "pest stations" in Hawaii (along with 549 and 909), this Taiwan-directed blaster typically smothers the frequency until its 1601 sign off. Even at 1556 on 11/6 (a very DU-slanted session), it was at its usual S9+ level with female vocal music, the 5+1 pips and Amoy sign off message <https://dreamcrafts.box.com/s/1dvk49fqtey4cnaq7385qhafz3k915nft>
- VIETNAM** Voice of Vietnam 2, Can Tho, 500 kW. Presumed the one with female Vietnamese speech during break in Voice of the Strait's transmitted audio at 1554 on 11/3 (from 12 to 15 seconds) <https://dreamcrafts.box.com/s/jp25f2ohhvkzknxah102yuj34o92bqkj>
- 792 **UnID-China** News commentary in Mandarin, apparently concerning Hong Kong (at 2 seconds, 13 seconds, etc) at 1612 on 11/3
<https://dreamcrafts.box.com/s/6yhjhe4ox8rg5jy9kbbhyrvq9so7pmy9z>
- 800* **BONAIRE** PJB (Trans World Radio) Kralendijk, 440 kW. Powerful Spanish speech (with "Trans Mundial" ID at 1 second) and Christian music at 0811 on 11/2 <https://dreamcrafts.box.com/s/sr6utt872dwgkq7vaxnzxvw2ilun43q>
- 837 **UnID-China** female Chinese speech at good level through Honolulu splatter at 1616 on 11/4; CNR5?
<https://dreamcrafts.box.com/s/z4qyaaq6bovzleacn2cc4ttswmf0q657>
- 846* **KIRITIMATI ISLAND** Radio Kiribati, 10 kW. Overwhelming strength just after local sunset with live community event broadcasting at 0508 on 11/2; strongest of the Pacific island stations <https://dreamcrafts.box.com/s/tx7avsrhvtafb0svgk21ur2pe9zsepq>
- UnID-China** male conversation at fairly good level at 1620 on 11/4; apparent "talker" format
<https://dreamcrafts.box.com/s/hukdwv4goikc36ct2dnw8td9vjl1k>
- 864 **EGYPT** ERTU, Santah, 400 kW. Modest strength Koranic chanting in and out at 0420 on 11/4 just prior to local sunset
<https://dreamcrafts.box.com/s/rbks44zdvuui5p4llk0zah0cett16zu> An awesome assist was this concurrent recording from Mauno with the same Koranic chant voice (mixing with Spain) <https://dreamcrafts.box.com/s/h9femamip5spackf0rm37s7eq1z3ly81> At 8,768 miles (14,111 km) this was the most distant reception of the DXpedition, and the only African reception. Thanks to Mauno!
- JAPAN** JOXR, Okinawa, 10 kW. Very good strength all alone with the usual male duo conversation at 1529 on 11/4
<https://dreamcrafts.box.com/s/p48i9cxlvt4o6paa5uil0idsn0a466o>
- 891 **AUSTRALIA** 5AN, Adelaide, 50 kW. Female speech at good strength with mention of "Melbourne" (at 13 seconds) during LR network program at 1625 on 11/4; dominant over a presumed Magic <https://dreamcrafts.box.com/s/nzi4ibvxnnr7v4dazi455mbbzfaahw>
- SOUTH KOREA** HLKB, Busan, 250 kW. Very good strength with male and female Korean speech at 1617 on 11/3
<https://dreamcrafts.box.com/s/fr4maal3phxuf3hsa97e9b66zfocpn97>
- UnID-DU** apparent oldies type music mixing with 5AN at 1624 on 11/4; almost certainly Magic in New Zealand, but parallel frequencies were not in at the time <https://dreamcrafts.box.com/s/h0kra4u1olu704191aa2ui6falsvlu3s>
- 909* **CHINA** CNR6, Fujian, 300 kW. This is one of the overwhelming Taiwan-directed Chinese blasters which typically act like pest stations in Hawaii until they sign off. The full 5 minute sign off routine is contained in this recording at 1559 on 11/3, including multiple "Shenzhou zhi Sheng" ID's during the first minute, loads of "unification" inducements and finally a website address, "www.hellotw.com"
<https://dreamcrafts.box.com/s/w2iaqkdbvpa36te3s0vhn9auxo6bxvnn>
- THAILAND** Radio Thailand synchros, Dansai/Surin, 10/20 kW. All alone on the frequency after a thunderous CNR6 sign off at 1605 on 11/3; thanks to Mauno for language identification <https://dreamcrafts.box.com/s/hhwaioiziw2o1wuzoq1xturptwrojo4>
- 918* **CAMBODIA** RNK, Phnom Penh, 600 kW. Despite its rarity on the west coast this is a powerful big gun in Hawaii, routinely hitting S9 levels daily to bury Shandong around 1630. This is the full sign off routine at 1658 on 11/3, featuring the female-voiced final ID and the National Anthem (ending at 1702)
<https://dreamcrafts.box.com/s/3s5i2y1xmq8sdqpk3wt8tdqin6as7d6j> A news wrap up is apparently broadcast every day at 1652, shortly before the sign off routine <https://dreamcrafts.box.com/s/livxv1bha2307vvi244o82tp140hva0> RNK broadcasts a lot of exotic Kampuchean music, such as this vocal group at 1648 on 11/3 <https://dreamcrafts.box.com/s/cizs6vd0z0v033900i10xenmdiamk3ao>
- CHINA** Shandong RGD synchros, Shandong. This Chinese network was usually little more than cannon fodder for RNK, but a very rare moment of dominance was at 1633 on 11/2 with female Chinese speech, slowly losing ground until it is covered by RNK's female vocal music
<https://dreamcrafts.box.com/s/kvddr0p0vmzu5wm42b7l2o9x91n7fshi>
- NEW ZEALAND** Radio New Zealand synchros, New Plymouth/Timaru, 2.5/2.5 kW. Radio New Zealand Network news with male and female announcers at 1502 on 11/2 before sinking into a mix with RNK and Shandong <https://dreamcrafts.box.com/s/vbpeapizre31qvf0tj3twimo2s0gp2od>
- 927 **JAPAN** NHK1 synchros. Fair level Japanese male conversation over AIR's English News lady at 1536 on 11/5
<https://dreamcrafts.box.com/s/wxq87h293sffqyvg7k7aealb4cuwv6vd>
- INDIA AIR**, Visakhapatnam, 100 kW. This was the second strongest AIR station overall during the trip (after 720), heard in November now for two years in a row. The English News lady was fairly strong at 1533 on 11/5, with multiple mentions of India (17 seconds and 41 seconds) and "India's strongest export" (1:03). Despite its reasonable strength it never seems to be alone on the frequency, like 720 often is around 1645
<https://dreamcrafts.box.com/s/s6489amur0evsa01jrqo7p2b1sr8d1jc>
- * **TAIWAN** BCC, Taichung, 10 kW. Animated male-female conversation in Amoy over AIR's English News lady at 1535 on 11/2
<https://dreamcrafts.box.com/s/pvxnaq2eisqa6oior5kzc24ixurc4uvf>
- UnID-China** male in Mandarin mixing with BCC's vocal music at 1533 on 11/3; multiple Mainland possibilities
<https://dreamcrafts.box.com/s/6d4ql6tn13hp38jnhllkp8myvmaaaif>
- UnID-Asian** female in unidentified Asian language mixing with BCC's Amoy conversation at 1538 on 11/2; doesn't sound like Chinese
<https://dreamcrafts.box.com/s/rkwwwhm50klu32xyhavto012lmjds6mt>

- 954 **AUSTRALIA** 2UE?, Sydney, 5 kW. Seemingly the only logical choice for the DU English "talker" format station under JOKR at 1541 on 11/2, with the mention of "foreign affairs" at 9 seconds <https://dreamcrafts.box.com/s/luit0h68vk47uoyrg3isjxmt6zoqsox>
- JAPAN** JOKR, Tokyo, 100 kW. Laughing male conversation at 1534 on 11/5; this was almost always the dominant station on the frequency <https://dreamcrafts.box.com/s/qfevd6mxwspcxuwsv6h4ltayomh44qep>
- * **TAIWAN** Chien Kuo BS, Hsinying, 10 kW. Female station promotions at 1630 on 11/3, matched with the station archives by Jari S after much investigation (thanks!) <https://dreamcrafts.box.com/s/mhaa3c25qhu61s5g6ko0od412yb3vz7q>
- UnID-AIR?** Concurrent South Asian music under 927-BCC (first 26 seconds) and 954-JOKR (remainder), but not enough content to confirm a parallel. Since 954-AIR was received in Poipu the year before, this frequency received a lot of attention <https://dreamcrafts.box.com/s/uay065o4dc7v2dmpa06xqfo25xei1xy5>
- 1017* **TONGA** A3Z, Nuku'alofa, 10 kW. Christian choral music and male-female conversation at overwhelming strength at 1541 on 11/6 <https://dreamcrafts.box.com/s/aaq24obov4inqhy6n8m13asvqp0qq7kqo>
- UnID-DU** male-female DU English way under Tonga at 1542 on 11/6; usually Newstalk ZB <https://dreamcrafts.box.com/s/56oxqtdlai1rhc90y2a0icv9jcbaztga>
- 1098* **MARSHALL ISLANDS** V7AB, Majuro, 25 kW. Fast-paced sports announcing by male in island language at 0512 on 11/2 <https://dreamcrafts.box.com/s/4c9841q8zb1fke1skp0kluemmgrn8fc0>
- 1143 **TAIWAN** BEL3, Penghu, 100 kW. Modest-strength parallel for 738-BEL2 with Chinese male vocal music at 1647 on 11/3 (after 1:05 in the recording) <https://dreamcrafts.box.com/s/nx4xvmmffute2kdv5olsqma7jbsyt4c6>
- 1360 **PERU** Radio Bienestar, Lima, 10 kW. This was the first South American reception for Chris during the trip, but the last for me (only two hours before going to the airport) at 0403 on 11/8, with an ID at 12 seconds <https://dreamcrafts.box.com/s/h0jlinmvylz5yf45qqvrlh1ctnczxxkk> Some nice music on Radio Bienestar 5 minutes later at 0408 on 11/8 <https://dreamcrafts.box.com/s/tzxpdt72rdx2dqkibnzwtewwq9nelo0n>
- 1430 **USA** KMRB, San Gabriel CA, 50 kW. This Chinese-format station had enough strength to show up on 1431, sounding a lot like an Asian (at least until the ID at the 1500 ToH, on 11/3). It did the same thing in the Cook Islands in April of 2018 <https://dreamcrafts.box.com/s/ccc8snfarqferra46lwb9uqqd864l0wt>
- 1440 **TARAWA** Radio Kiribati, Bairiki, 10 kW. Christian choral music at strong level by native singers at 0833 on 11/2 <https://dreamcrafts.box.com/s/wl8nngdlwu2m6va6odhlgfjixjqu9eq0>
- 1449 **JAPAN** Nishi Nippon Hoso, Takamatsu/Marugame, 5/1 kW. Dominant on most mornings, such as at 1614 on 11/2 (with "Nishi Nippon Hoso" ID at 7 seconds) <https://dreamcrafts.box.com/s/8jnsprecu78n21dpq66h7ssx5bem94v5>
- 1510* **ECUADOR** Radio Naval (HClO2), Guayaquil, 500 watts. Very prolific for the power level, this Spanish time signal station hit several S9 peaks just after sunset on most evenings, such as at 0442 on 11/6, peaking at 1:57 in this recording <https://dreamcrafts.box.com/s/nevh3aftv3vckf1woyblh6ewqcy73qk>
- UnID Spanish stations** (2) co-channels with Radio Naval at 0442 on 11/6, the first is the female with a religious message at the start of the recording, and the second is the music station under Radio Naval around 1:40 in the recording <https://dreamcrafts.box.com/s/nevh3aftv3vckf1woyblh6ewqcy73qk>
- 1520* **COLOMBIA** Su Presencia Radio (HJLI), Bogot4, 5 kW. Heard by accident while searching for Saudi Arabia (a no show), with strong signals around sunset at 0402 on 11/3 featuring an ID and promo music at 22 seconds into the recording <https://dreamcrafts.box.com/s/56py69qh5m2g8k90ts48glon8tka15tf>
- 1548* **AUSTRALIA** 4QD, Emerald, 50 kW. One of the strongest Oz stations each morning, with classic pop at 1557 on 11/3 <https://dreamcrafts.box.com/s/hls6hvk3radzhc0d5z50lqnk2iqeyeh5>
- 1575* **THAILAND** VoA, Ban Phachi, 1000 kW. Powerful strength with presumed Burmese at 1556 on 11/2; no more Iranian Jammer like last year <https://dreamcrafts.box.com/s/m7vftcejqv6n7hv62f98lxvio00hzb45>
- 1611 **AUSTRALIA** three Australian Mix Pandemonium breaks out at 1620 on 11/7 as three low power Oz stations mix together at good strength, one of which is almost certainly 400 watt Vision Radio Network in Adelaide, according to Chris <https://dreamcrafts.box.com/s/mru2w7od0jofcy2d0zu9291fkr3ha104>
- 1620 **AUSTRALIA** 4KZ/t Taylor's Beach, 500w. According to Chris this station has the best antenna of any of these HPONS stations, personally installed by Chris' friend Al Kirton (while the other stations' antennas are "nothing special"). The antenna was sure doing the trick at a powerful level during a call-in talk show at 1618 on 11/7 <https://dreamcrafts.box.com/s/1trwkqq6xc9h9qbymrribu8i630qwks6n>
- 1629 **UnID** Good level conversation about the release of a music album at 1624 on 11/7; maybe 2HRN? <https://dreamcrafts.box.com/s/xkykqt1ps7k535ab359na99e2x3i242x>
- 1638 **UnID** Arabic (?) at very good level at 1629 on 11/7 <https://dreamcrafts.box.com/s/vvq3dsfpn9erin96z762qr5qmfli79x>
- 1656* **AUSTRALIA** Voice of the Australian Chinese, Brisbane, 400w. Chinese music station with S9 peaks at 1631 on 11/7 prevailing over weaker UnID male "talker" station <https://dreamcrafts.box.com/s/o7lim33qfmj217xqmgjclnpt0hbgow0v>
- UnID** Male "talker" station under Voice of the Australian Chinese at the end of this recording at 1631 on 11/7 <https://dreamcrafts.box.com/s/o7lim33qfmj217xqmgjclnpt0hbgow0v>
- 1665 **UnID** Weak male "talker" station rising above the noise level at 1642 on 11/7, with co-channel flutter from something even weaker <https://dreamcrafts.box.com/s/mjkrf4g0wdjgkm0jmhpa71ffso62nz>
- 1701* **AUSTRALIA** Radio Brisvaani, Brisbane, 100w. Probably the strongest 100 watt TP in radio history. Distinctive South Asian music with S9 peaks at 1614 on 11/7 definitely one of the stars of the session <https://dreamcrafts.box.com/s/yah56zm6cwqplakzpnlhk9800jwzz6cj> Keeping up its S9 strength at 1648 on 11/7 <https://dreamcrafts.box.com/s/8xr0pspq13siny760e45qr5009h3atky>
- UnID** Weak male "talker" co-channel giving Brisvaani some temporary competition at 1637 on 11/7, but soon swallowed up by the South Asian music <https://dreamcrafts.box.com/s/3s3mwig6z2059jhxxzql1c1ufpltn2t>



PASTED: from Chris Rogers Pakenham, Victoria.

I was lucky enough to attend a DXpedition from the 2/118/11 in Kauai, Hawaii with two other top DXers from the US Gary DeBock and Craig Barnes. DXing was done from Poipu beach on the park benches right in front of the ocean. The clear channels that weren't occupied with local stations were full of many stations, at amazing signals. Some of the hard to hear Pacific stations were massive signals as well. There was a lack of Latin signals, but still some amazing DX was heard with too many stations to ID, and just not enough time. Early morning DX sessions, just before sunrise yielded many Australian stations including the low powered narrowband stations, and numerous Asian stations. The NZ stations were nowhere near as strong as the Australian stations at sunrise. I DXed mainly at night for up to 9 hour sessions, and was too tired to do the morning sessions as well. My US DX partners DXed mainly in the sunrise/sunset periods. Equipment used. Tecsun PL-880 (modified to accept an external MW antenna) PK amplified loop, CCrane Skywave modified and 5" FSL antenna both by Gary DeBock.

530 **CUBA** Radio Enciclopedia, Villa Maria. Spanish classical music program @ 0512 5/11
540 **SAMOA** APIA 2AP. Excellent with Island music and religious program 0625 3/11
550 **USA** KUZZ, Bakersfield. C&W music ID @1018 "K-U-Z-Z AM 55 FM 1079" 3/11
560 **USA** KFSS, San Francisco. Talk program ID @0453 "This is talk radio KFSS San Francisco" 7/11
580 **USA** WTCM, Traverse City. ID @0706 "News Talk AM 580 WTCM Traverse City Michigan" 2/11
600 **USA** KOGO, San Diego. ID @0705 "Just dial 600 KOGO Traffic" 4/11
610 **USA** KEAR, San Francisco. Religious program ID @0400 "Family radio KEAR San Francisco" 8/11
621 **TUVALU** Radio Tuvalu, Funafuti. Island local music excellent @0756 3/11
630 **USA** KSLR, San Antonio. ID @0700 "AM 630 The word.com KSLR San Antonio Texas" 2/11
640 **USA** KFI, Los Angeles. ID @0811 "KFI AM 640" into Coast to Coast program 2/11
660 **USA** KTNN, Window Rock. C&W music ID 0819 "Voice of a Navajo nation KTNN AM" 2/11
710 **USA** KSPN, Los Angeles. ESPN sport program mixing with KFLA @0541 7/11
720 **USA** KDWN, Las Vegas .ID @0959 "The only place in Las Vegas with the new 1015 FM, 720 AM KDAWN" 3/11
730 **CANADA** CHMJ, Vancouver. ID @0710 "This is AM 730 Vancouver's favourite traffic and weather station" 5/11
790 **USA** KABC, Los Angeles. ID @0716 "AM 790 K-A-B-C", then Red Eye radio program 6/11
800 **BONAIRE** TWR. Religious program Spanish ID @0410 "Radio Trans Mundial" 7/11
820 **USA** WBAP, Fort Worth. ID @0741 "820 WBAP.COM" then coast to coast program 4/11
840 **USA** KMPH, Modesto. Relevant Radio religious program @ 0753 4/11
860 **USA** KTRB, San Francisco. ID @0320 "Radio Homeland of the Oakland Athletics 860 AM KTRB" 5/11
870 **USA** WWL, New Orleans. ID @1001 "Home of the New Orleans Saints 870 AM WWL New Orleans 1053 WWL FM" 5/11
890 **USA** KIHC, Arroyo Grande. Relevant Radio religious program ID @ 0803 "KIHC Arroyo Grande San Luis Obispo" 4/11
910 **USA** KKSF, Oakland. ID @0822 "Real Talk 910" the Iheart radio program 4/11
920 **USA** KVIN, Ceres. 60's music ID @0520 "From... Central Valley and in between this is the Vine vintage 920" 8/11
930 **USA** KHJ, Los Angeles. Relevant radio religious program @0537 8/11
950 **USA** KJR, Seattle. iheart radio program ID @0526 "Sports Radio 950 KJR". 7/11
960 **USA** KNEW, Oakland. ID @0631 "Bloomberg 960 and 103.7 FM HD" then weather and traffic for San Francisco 5/11.
970 **USA** KHTY, Bakersfield. ID @0900 "This is the home of the LA Dodgers KHTY Bakersfield" 4/11
980 **USA** KDBV, Salinas. Religious program, ID @0400 "KDBV 980 Radio Vida Abundante" 5/11
1000 **USA** KOMO, Seattle. News and weather program, ID @0352 "Komo triple A traffic" 8/11
1010 **USA** KIQI, San Francisco. ID @0405 "Radio Unica" Spanish music 4/11
1020 **USA** KTNQ, Los Angeles. Spanish music 0740 6/11
1017 **TONGA** A3Z. Excellent religious service 0920 3/11
1020 **USA** KTNQ, Los Angeles. Excellent Spanish ads and IDs @ 0257 4/11
1050 **USA** KTCT, San Mateo. Relay of KNBR Espn radio program and KNBR ID @ 0802 2/11
1070 **USA** KNX, Los Angeles. ID @0315 "News, traffic and weather every 15 minutes KNX 1070 news radio" 4/11
1098 **MARSHALL ISLANDS** V7AB, Majuro. Excellent Island music @0827 3/11
1100 **USA** KFAX, San Francisco. ID @0301 "AM 1100 KFAX San Francisco" 4/11
1120 **USA** KPNW, Eugene. ID @0315 "News radio 1120 KPNW" 8/11
1140 **USA** KHTK, Sacramento. ID @0305 "Sports 1140 KHTK" then CBS sports 4/11
1150 **USA** KEIB, Los Angeles. ID @0824 "Traffic on the Patriot 1150" 2/11
1160 **USA** KSL, Salt Lake City. ID @0830 "KSL news radio 102.7 1260 AM Utah's weather and traffic station" 2/11
1170 **USA** KFAQ, Tulsa. Weather for Oklahoma, "Talk radio 1170 KFAQ" then Coast to Coast program 0833 3/11
1180 **USA** KERN, Wasco-Greenacres. Talk program, ID @0735 "KERN 1180, 96.1 FM" 5/11 w/Radio Rebelde Cuba 5/11
1190 **USA** KGBN, Anaheim. Talk program, ID @0435 "News radio 1190 KGBN iheart radio" 8/11
1200 **USA** WOAI, San Antonio. ID @0830 "News radio WOAI 1200" 2/11
1260 **USA** KSUR, Beverly Hills. ID @0520 "La Oldies KSURF 1260" 4/11
1320 **USA** KIFM, West Sacramento. ID @ 0352 "1320 KIFM" then ESPN radio sports 7/11
1350 **USA** KSRO, Santa Rosa. ID @0606 "KSRO weather watch every 30 minutes" 4/11
1380 **USA** KTKZ, Sacramento. ID @0925 "1380 KTKZ.COM" then Guy Benson show 4/11
1410 **CANADA** CFTE, Vancouver. ID @0450 "Bloomberg radio 1410 and 103.5" 4/11
1440 **TARAWA** Radio Kiribati, Bairiki. National weather and tide report excellent English //846 0630 3/11
1460 **USA** KION, Salinas. ID @0502 "1460 and 101FM Powertalk KION" 4/11
1510 **ECUADOR** Radio Naval, Guayaquil. Spanish time pips and Spanish announcements @0432 6/11
1510 **USA** KGA, Spokane. Hip hop music ID @0333 "this is the new 103.5 the Game, sports and hip hop" 8/11
1530 **MÉXICO** Exstatis Digital. English pops and ID's over KFBK. 0500 3/11
1560 **USA** KNZR, Bakersfield. ID @1040 "KNZR AM 1560 and 97.7" then Coast to Coast program 3/11
1580 **USA** KBLA, Santa Monica. Talk program, ID @ 0733 2/11
1620 **USA** KSMH, West Sacramento. Religious program @0545 Relevant Radio IDs. 8/11
1620 **AUSTRALIA** 4KZ, Taylors Beach. //531 audible at sunrise relay 4BC talk-back @1612 8/11
1640 **USA** KDIA, Vallejo. Religious program, ID @0915 "1640 KDIA San Francisco"3/11
1650 **USA** KBJD, Denver. Religious Spanish music, IDs @ 0604 and jingles "Radio Luz". 5/11
1660 **USA** KBRE, Merced. Heavy metal music ID @ 0705 "This is the Bear 1057 KBRE"
1670 **USA** KHPY, Moreno Valley. Spanish religious program, ID 0659 "KHPY Moreno Valley 1670 AM" 5/11
1680 **USA** KGED, Fresno. ID @0555 "Talk Radio 1680 KGED" then ABC news. 5/11
1700 **MÉXICO** XEPE, Tecate. Spanish music @0510 6/11

Spring Time at Sandy Neck Beach

10 x 16 foot loop w/G-33 without amplifiers. The weather being my main concern when heading out to DX. I knew tonight would have much static after checking out the lightning maps but with some warmer air it was time to go. I am glad I did. 4/6-7/20 UTC Time. (Again, many audio files included with this post to the IRCA eGroup – pb)

2300 – 110°

693 **UNITED KINGDOM** and **SPAIN** mixing.
774 **EGYPT** and **SPAIN**.
783 **SYRIA** with Mideast music and talk plus **SPAIN**.
864 **EGYPT** and **SPAIN**.
909 **UNITED KINGDOM** and **ROMANIA** w/6 pips.

936 A mix of weak signals, pips may be Spain.
1179 **ROMANIA** and **SPAIN**.
1332 **ROMANIA** pips into news.
1539 **UNITED ARAB EMIRITS** ID, talk along with Asian music.
1635 **PIRATE** old tunes and a man speaking what seemed to be Spanish.

2315 – 110°

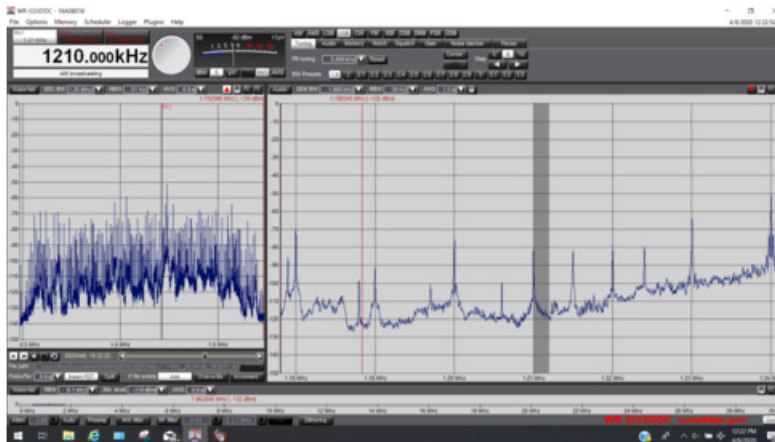
576 **ALGERIA** and **SPAIN**.
999 **SAUDI ARABIA** Quran under **SPAIN**.
1287 **SPAIN** talk //1044

1521 **SPAIN** talk //1044.
1566 **BENIN** some music but weak.



2330 – 110°

- 558 **SPAIN** some music and talk. All alone //747.
- 612 **MOROCCO** a couple talking in Arabic. //936. One more may be Spain in the static crashes.
- 657 **SPAIN** like some kind of a play. //639.
- 666 **PORTUGAL** 2 men talking, maybe a call in show. //720 **SPAIN** also.
- 711 **MOROCCO** talk and later Mideast music. //612. Also **SPAIN** Cope with a dominate woman speaking. //837. 711 Good tonight as not much slop but still static.
- 720 **PORTUGAL** talk. //666.
- 891 **ALGERIA** I could lose myself in this music.
- 918 **SPAIN** Madrid. In good w/talk.
- 1035 **SAUDI ARABIA** Jeddah. Weak with a woman talking in Arabic. //1206 both new. Screen capture of 1206.
- 1062 **IRAN** woman in Farsi w/music program. S 6.
- 1071 **IRAN** maybe a drama play. Man and the woman in Farsi.
- 1170 **UNITED ARAB EMERITS** dominate.
- 1188 **HUNGARY** 3 ascending bells into news.
- 1197 **IRAN** woman in Farsi. //1512.
- 1206 **SAUDI ARABIA** SBA Radio Jeddah. Arabic talk. //1035 (screen shot).
- 1422 **ALGERIA** Quran good w/suspect Romania tagging along.
- 1503 **EGYPT** and **SPAIN**.
- 1512 **IRAN** man and a woman talking. //1197 both weak.
- 1557 **IRAN** and **UNITED KINGDOM** with slow music.
- 1575 **SPAIN** weak with talk. //1584 under presumed Italy carrier.
- 1584 **SPAIN** on top of mix. //575.
- 1602 **SPAIN** SER. //1575 with hum in USB.



Not all Spain listed in above as 50 stations from that country were in this file.

2345 – 70°

- 531 **SPAIN** and Jill FM.
- 747 **IRAN** music and **SPAIN** w/talk.

2354 – 90

- 963t **TUNESIA** light music in fair.

4/7/20 – 0030 – 135°

- 819 **EGYPT** talk in fair.
- 846t **SAUDI ARABIA** talk that sounded like vernacular dialect of Afrikaans but constant static at this time makes it difficult to know for sure.
- 873 **SPAIN** why am I picking up Teletype at times on stations. Maybe this SDR?
- 1008 **SPAIN** talk in around S 3-5. //1044.
- 1026 **UnID** with drums, maybe chanting along w/drums. Iran possible. Spain also.
- 1053 **SPAIN** and **UNITED KINGDOM**.
- 1130t **VENEZUELA** under NY. W/music. Good.
- 1143 **IRAN** and **SPAIN** mixing w/talk.
- 1242 **USA** WBAS w/music.
- 1278 **IRAN** loud talking man. //1377. Also another station which may be Oman.

0100 – 60°

- 540 **CANANA** NF and I also hear 5+1 pips so must be Barcelona, Spain.
- 585 **SAUDI ARABIA** SBA Radio. With Quran. //612.
- 612 **SAUDI ARABIA** SBNA Radio. Also with Quran. New.
- 747 **SAUDI ARABIA** SBA Radio. Quran. //585
- 765 **SAUDI ARABIA** SBA. Quran.
- 846 **SAUDI ARABIA** SBA. Quran //765 Weak.
- 882 **UNITED KINGDOM** with talk, SPAIN pips and talk, and SAUDI ARABIA w/Quran. A full boat.

When the stations using Quran and conditions just right one can knock them off like popcorn.

0130 – 110°

- 1080 **SPAIN** SER. //1044. Sounded like a NA or men's choir.
- 1098 **IRAN** on top at start then **SPAIN** took over.
- 1134 **KUWAIT** ID

0200 – 170°

- 580 **PUERTO RICO** talk on top.

0214 – 90°

- 675t **QATAR** presume them with a man singing
- 756 **ROMANIA** talk //1332. This station does not have the punch it had last year.

A good night despite the noise from the storms but just like Summer DX one can pick up South Africa and Argentina etc. with the static. If the wind not to strong I may be at Sandy Neck Beach tonight. If I go one can see my truck at top center of the picture from the camera they have aimed at the parking lot. To view this go to, Sandy Neck Beach Barnstable MA.

Take care. **Roy Barstow** – Falmouth MA.

- 855 **SPAIN** and **ROMANIA**.
- 1449t **SAUDI ARABIA** talk, weak.

- 1290.3 **BRAZIL** woman in Portuguese.
- 1314 **SPAIN** presumed **IRAN**.
- 1332 **ROMANIA** talk //1593. And Iran with a man singing with back-up singers. Maybe a religious program.
- 1377 **IRAN** talk //1278.
- 1404 **ROMANIA** talk //1332.
- 1413 **SPAIN** and maybe **MDA**.
- 1431 **DJIBUTI** talk in fair w/slop.
- 1512 **SAUDI ARABIA** Quran mixing w/**IRAN**.
- 1548 **KUWAIT** Arabic talk. //1593.
- 1593 **KUWAIT ROMANIA** and others.
- 1660t **PUERTO RICO** loud talking man in Spanish under WWRU NJ.

- 936 **SAUDI ARABIA** SBA Radio. Quran program in the mix.
- 945 **SAUDI ARABIA** SBA Radio. With Quran – 5 Kw. NEW.
- 1071 **SAUDI ARABIA** SBA Radio. Quran on top at S 5.
- 1098 **UnID** under **SPAIN**. Could be SVK.
- 1152 **UNITED KINGDOM** British talk mixing w/SPAIN at times.
- 1161t **IRAN** talk but too much slop.
- 1278t **OMAN** S 5 with Quran. Not sure if Iran has Quran at this time.
- 1395 **IRAN** talk but weak.

- 630 **PUERTO RICO** talk and also on top. ID. sounds like, Not TA UNO.

- 783 **SAUDI ARABIA** SBA. Call of Islam with Quran. On top at S 5-6.
- 954 **CZE** CRO 2. Music under SPAIN //639.



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

Deadlines: 4/25, 5/9, 5/23, 6/6, 6/20, 7/11 and 8/8

W Moseley wmosley88@hughes.net

New to IRCA and looking for box loop advice: Litz wire vs. regular wire? Winding separation distance? Vari-cap source? Anyone have a ferrite bar antenna like Gary DeBock's they want to get sell? Wayne

(Hi, Wayne. Welcome to the group. I'm not the one with the answers but I am sure others can help you. My loop was made for me by a guy in Chicago back in 1967. It's long gone now, damaged during a move up here from South Carolina in 1999. – rce)



IRCA TECHNICAL COLUMN – Nick Hall-Patch – 1538 Amphion St – Victoria BC Canada V8R 4Z6
 Email: nhp@ieee.org

Noise Suppression for the Antenna Feed Line

Introduction: Local electrical noise interfering with the DXer's desired listening is universal. So much so, that many urban DXers have hung up their headphones, even if they have room for outdoor antennas. However, that noise isn't always coming from the neighbor's place. To put it simply, electrical noise generated by our own tech toys can find its way onto the coaxial feed line from our antenna, travel out to the antenna to be picked up there, transferred to the coax feed line, and then become part, perhaps the dominant part, of the signal conveyed back to the receiver.

For receiving antennas, perhaps a model of an antenna and ground with matching transformer will explain why "common mode" current in a coaxial lead in can increase the noise level. (Figure 1) Although simplistic, it can also help to explain the situation in more complex antennas that have one leg capacitively closer to ground than the other.

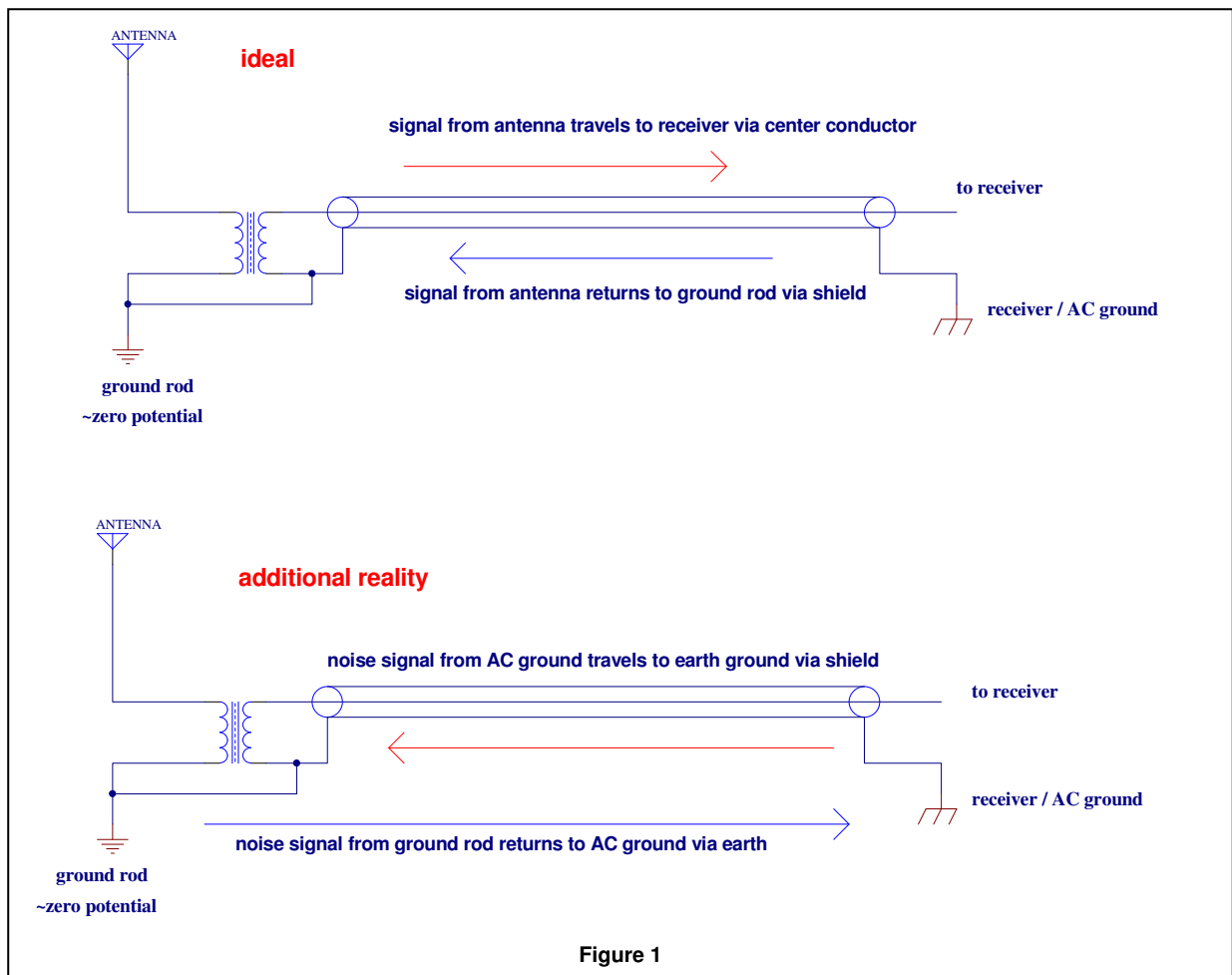


Figure 1

- ideal:** The shield of the cable is an electrical conductor, and is the return path for the signal from the antenna that travels down the center conductor of the coax to your receiver (this is "differential mode" current, necessary for hearing your DX)
- additional reality:** The shield of the cable can also act as an electrical path from the ground of your receiving set up (which is usually linked to the noisy AC ground in your receiving set up, or to a noisy computer, even if everything is being run on battery) out to any ground that exists at your antenna. In addition, the shield can act as an antenna itself.
- The noise signals that are present in your receiver ground will usually have a different electrical potential from that which exists at your antenna's ground rod, so will create a current along the coax shield, which will return through the earth, a path which is also common between your receiver ground and antenna ground (this is "common mode" current on the coax shield; it doesn't travel in the coax center conductor).
- That noise current can induce a signal in your antenna via its imperfect (resistive) path to the earth ground. Also, any resistance to the current in the shield or in the splices with coax connectors will tend to induce additional noise into the coax center conductor (a bad splice is often diagnosed by the additional noise noted at the receiver).

The problem isn't new, and at least two solutions were described many years ago in the pages of **DX Monitor**. These are the isolation transformer and the common mode choke. Both break the path for electrical noise out to the antenna via the feed line's shield, while still allowing DX signals to travel from the antenna to the receiver. In effect, they isolate the receiver ground from the antenna ground, so that there is no longer a return path for the noise.

You'll sometimes hear common mode chokes referred to as "braid breakers", meaning that the braid of a coaxial cable is effectively broken up into two different segments, even if it is not physically broken. Isolation transformers have been frequently marketed as "galvanic isolators"; they actually physically separate the antenna ground from the receiver ground.

Isolation transformers

The isolation transformer is simply a radio frequency transformer which has no common ground connection between the input and output windings (Figure 2) compared with the transformer in Figure 1.

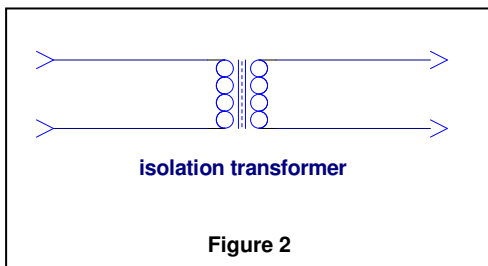


Figure 2

Because of its inherent DC isolation, the transformer cannot be used with an external preamplifier or active antenna powered through the coax, but rather should be placed between the bias-T and the receiver. Three articles in IRCA Reprints, from nearly 30 years ago, available online at <https://www.ircaonline.org/info.php?num=45de9cb77c87c3>, describe isolation transformers, their construction and use:

- A-108 [Inverted L Noise Reducing MF/VLF Antenna](#), by Dallas Lankford
- A-107 [Interference Reducing Antennas for the BCB](#), by Denzil Wraight
- A-123 [Another Look at Noise-Reducing Antenna Systems](#), by Mark Connelly

At present, only IRCA members can get access to these reprints. If you don't already have an account, contact Lynn Hollerman at ircamember@ircaonline.org

Open copies of the articles don't seem to be available online, although a Russian site <http://www.radioscanner.ru/files/download/file2353/nrants.pdf> seems to offer Mark's work. These articles are apparently all based on work originally done by FRW Strafford in the 1930s. Lankford's and Wraight's articles emphasize the use of a long wire or vertical antenna with an isolated matching transformer (high impedance to 50 ohms impedance, suitable for input to a receiver), while Connelly's article introduces the idea of additionally using a 1:1 isolated 50 ohm matching transformer for an antenna that has already been optimized for a 50 ohm lead in.

Common Mode Chokes

The common mode choke may not have such a venerable history as the isolation transformer, at least not for suppressing noise in antenna feed lines. However, common mode chokes have been used for many years for noise suppression in AC power lines. Without going into the physics, the common mode choke can be seen as a device that impedes "common mode" signals, such as the noise signals from our receiver ground out to the ground rod via the coax shield, but present no impedance to "differential mode" signals, such as the DX from our antenna. The choking effect can be perceived on the received signal just by coiling up a hundred feet of coaxial cable as part of the antenna lead-in; the coil looks like an inductor to the common mode signals, reducing their amplitude, but looks just like a length of cable to the DX signals. It is much more convenient however to run a few turns of the coax around an appropriate ferrite core, creating a large inductance, and therefore an impedance to common mode signals (Figure 3).

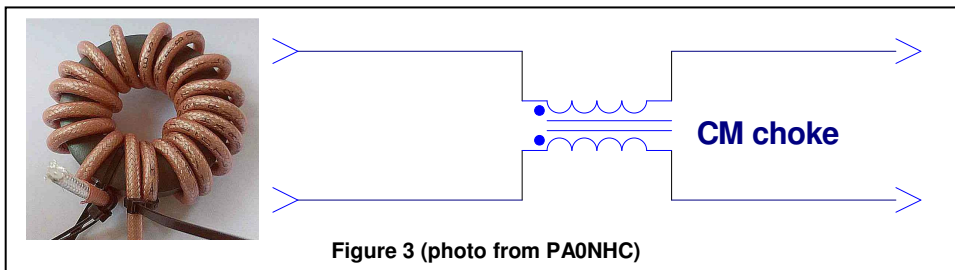


Figure 3 (photo from PA0NHC)

[Is Your Coaxial Lead-In Actually an Antenna??](#) by John Bryant and Bill Bowers, was an early (2003) description of the use of coaxial chokes to suppress unwanted signals in the antenna feedline, at least in the MW DXing world. The article is available as IRCA reprint A-151 and also online at http://www.dxing.info/equipment/coax_lead_in_bryant.pdf It was inspired by the 3rd Edition of John Devoldere's [Low Band DXing](#), a book aimed at the radio amateur, but which contains a wealth of information about receiving down to 1.8MHz, and by extension, into the medium and long wave bands. The fifth edition of this book is available from ARRL (<http://www.arrl.org/shop/ON4UN-s-Low-Band-DXing/>). In this case, the authors were "choking" undesired signals that were being picked up on the coax shield, but the same device reduces noise traveling on the shield also.

Devoldere's book and the Bryant/Bowers article recommended the use of two coaxial chokes on the antenna feedline, one near the antenna itself, and one near the input to the receiver. In addition they recommended attaching the shield of the coaxial cable to a ground rod in the center of the cable run between antenna and receiver (Figure 4). However, significant degrees of noise suppression have been found by users with just one choke at the receiver, and with no ground rod.

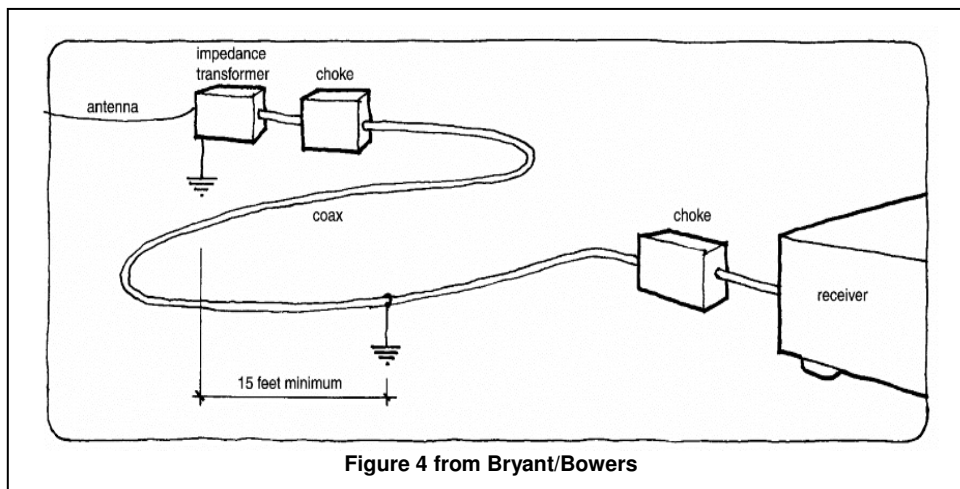


Figure 4 from Bryant/Bowers

Discussions on the IRCA Group

If this subject is such old news, what can be added to it now? A few months ago, the IRCA groups.io list contained quite a lot of discussion about “galvanic isolators” and “common mode chokes”, because some DXers had used one or the other on their antenna lead ins, and found reduction in what some had previously thought was received electrical noise from their antenna, rather than their own noise being fed to their antenna. In spite of the information available in the technical archives, there appeared to be some confusion between the two items, which was hopefully cleared up by other contributors to the list.

Initially, there was a discussion about common mode chokes, mentioning the commercially available products that were being sold to the radio amateur market, for example, <https://www.insight-eng.net/products/cmxcmx.html> and <https://myantennas.com/wp/product-category/cmxc-2/> The latter company has at least one product that is specified to as low as 0.5MHz, while the former’s products are useful primarily for the HF amateur bands, so may not be of much use to the medium wave DXer.

This exchange then devolved into a rather detailed discussion of home brew common mode chokes by Everett Sharp and Chuck Hutton, which is referenced in the final section of this article. Then, another commercial product, specified for 40 kHz to 30 MHz, the GT-1 Galvanic Isolator Transformer, (<http://www.aorusa.com/accessories/gt1.html>) was mentioned by Vince Ferme (**Figure 5**) along with pointing out alternative home brew solutions, which are also described below.



Figure 5

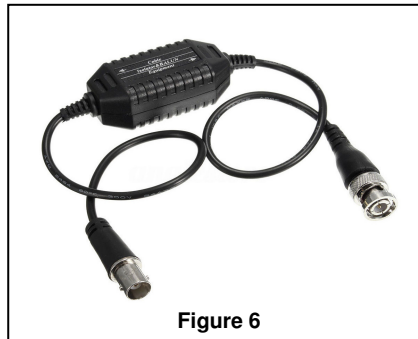


Figure 6

Finally, Vince mentioned the availability of a “Coaxial Video Ground Loop Isolator Balun BNC Male to Female for CCTV Camera” offered by various Ebay sellers, for example, https://www.ebay.ca/itm/Coaxial-Video-Ground-Loop-Isolator-Balun-BNC-Male-to-Female-for-CCTV-Camera-E8P6/122656420263?ssPageName=STRK%3AMEBIDX%3AIT&_trksid=p2060353.m2749.l2649 He tried them and was pleased with the reduction of noise on longwave in particular.

Les Rayburn pointed out that these devices were “designed to remove annoying “hum bars” from CCTV video cameras. These show up as slowly moving “bars” of noise on monitors – anyone who has worked much with CCTV has experienced them. To be effective, they really only need to function (to) a little above 1 MHz” (so may be useful at medium wave frequencies).

Steve Ratzlaff opened up a couple of the CCTV ground loop isolators and found them to contain either an isolation transformer (GB001), or a combination of isolation transformer and common mode choke (GL101) (**Figure 7**). He found that the GL101 model had considerable insertion loss above a few MHz, 20dB down by 10MHz, compared with the GB001 which was only a couple of dB down by 30MHz.

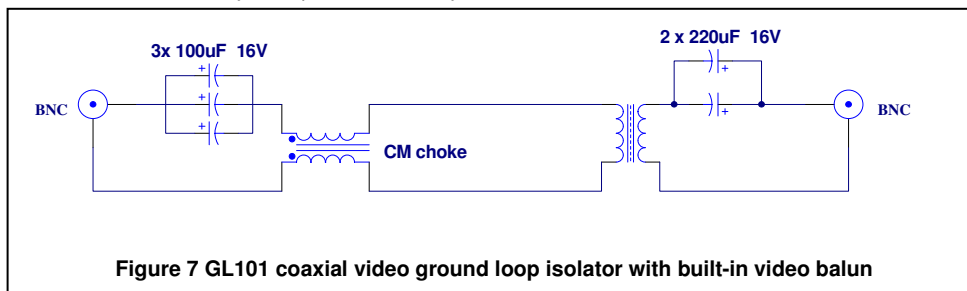


Figure 7 GL101 coaxial video ground loop isolator with built-in video balun

The discussion died out shortly after these evaluations, and there does not seem to have been the detailed analysis of the noise cancelling response of these CCTV isolators similar to that which was done by Everett Sharp for his homebrew common mode chokes. However, the average DXer is not a homebrewer, and will likely be pleased by the improvement in response to local noise found by using one of these inexpensive devices.

More detailed discussion

For those who are not afraid of doing a little homebrewing (or know someone who will do it for them), there was quite a bit of more detailed information provided during the list discussions which might allow the user to consistently knock down local noise over a broad band of frequencies.

More about isolation transformers:

As an update to the 30 year old articles on creating isolation transformers, here is what was mentioned. Everett Sharp has used a BN73-202 binocular core, with a bifilar pair of #30 magnet wire, each with different colored enamel coating (to indicate each winding). The pair of wires is then wound six times through the binocular core (**Figure 8**). (The BN73-202 binocular core is Fair Rite part number 2873000202, available from Mouser as # 623-2873000202).

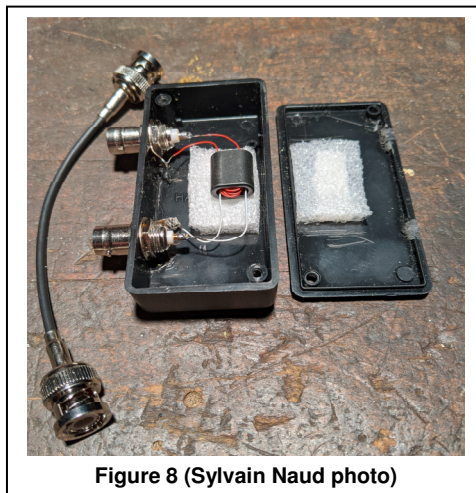


Figure 8 (Sylvain Naud photo)

Vince Ferme also mentioned I2PHD's design: "You can build a simple 1:1 RF transformer – for use as a galvanic isolation transformer by twisting two wires together and running the pair through a toroid core just two or three times. Then connect both ends of one of the wires to the coax going to the receiver and both ends of the other to the two balanced antenna wires or to the antenna coax.

The ferrite must be of high permeability (eg -75 or -77 material). The two windings are galvanically insulated, usable from LF to 30 MHz. Not aesthetically pretty, but works". Vince specified the possible toroid part numbers as Digikey: #240-2524-ND or #240-2522-ND for #75 Mix, or Mouser #623-5977001101 or #623-5977000301 for #77 Mix.

(A further note, not mentioned on the list. In reprint A-123, Mark Connelly mentions using Mini-Circuits transformers as ready-made isolation transformers. Coilcraft is another company that makes a number of wideband RF transformers at inexpensive prices, for example, their 1:1 transformer, WB1-6TL, available from Mouser as # 994-WB1-6TL, as are many others with different winding ratios.)

More about common mode chokes:

Generally, for use at medium and long wave frequencies, a high permeability, physically fairly large, ferrite toroidal core or clamp-on core should be used with multiple turns of coaxial cable (or twisted pair if that is your choice) around it. Over the years since the Bryant/Bowers article was written, DXers have done exactly that, sometimes with impressive results, sometimes with results that are good at some frequencies but not at others. It's been a "whatever works" strategy, for example, by getting a clamp-on core such as Fair-Rite #0475176451, using a cable assembly of thin RG-174 coax, and winding as many turns as possible around the core. (Figure 9)

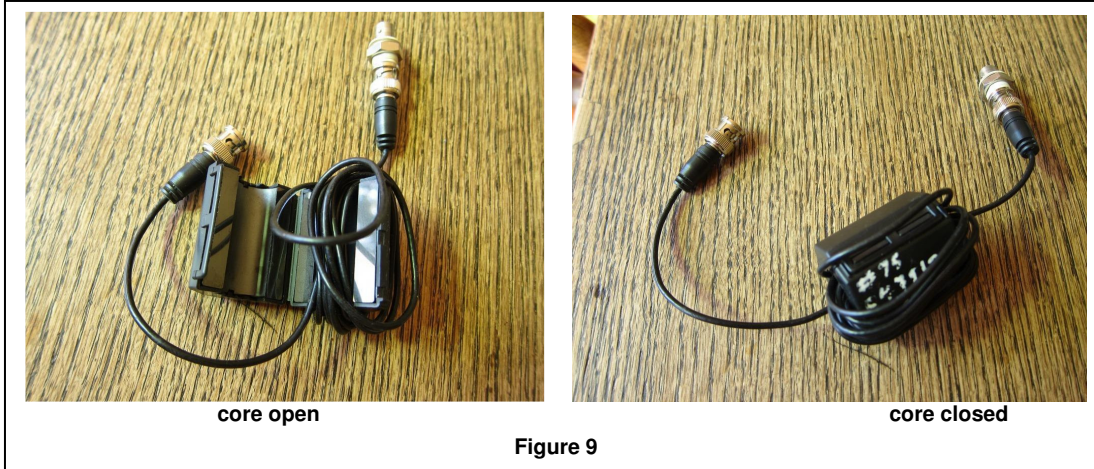


Figure 9

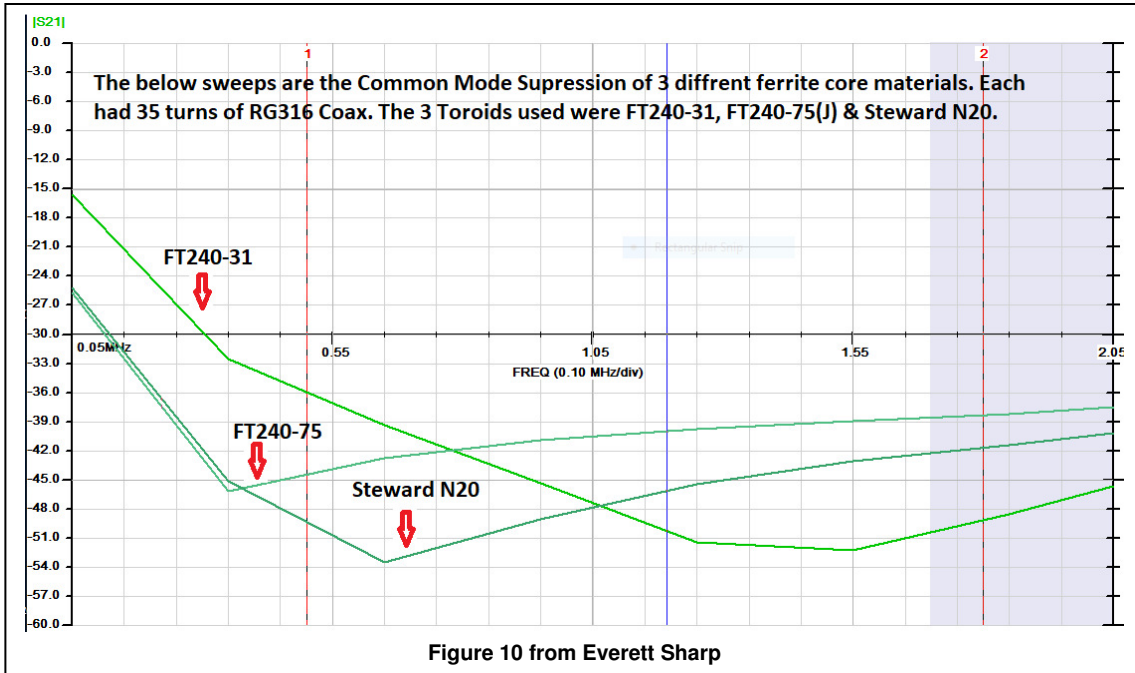


Figure 10 from Everett Sharp

However, to create a common mode choke that is optimum over the frequency range for which a DXer wishes to attenuate noise is not always easy, and can involve poring over data sheets, developing an understanding about the difference between reactive and resistive impedance, making inductance measurements, and using a vector network analyzer (VNA). Fortunately, a couple of contributors to the IRCA list had done exactly that.

Everett Sharp detailed his strategy to the list, first by using a VNA to evaluate several different toroidal cores wound with coaxial cable, showing clearly the depth of attenuation of common mode noise on the y-axis of his graph, and how that attenuation varied with frequency (Figure 10). Type #31 ferrite material has been frequently suggested as a useful choke for the ham bands, while type #75 material had been more widely used by MW and LW DXers. "Steward N20" noted in Figures 10 and 11 was apparently a misidentification, and it was later corrected to TDK #B64290A0040X830, available as Mouser part # 871-B64290A0040X830.

Then Everett placed two of his chokes in series to smooth out and deepen the common mode attenuation response across a broad range of frequencies (Figure 11). This would be an extremely effective common mode choke from below the longwave broadcast band to 160 meters.



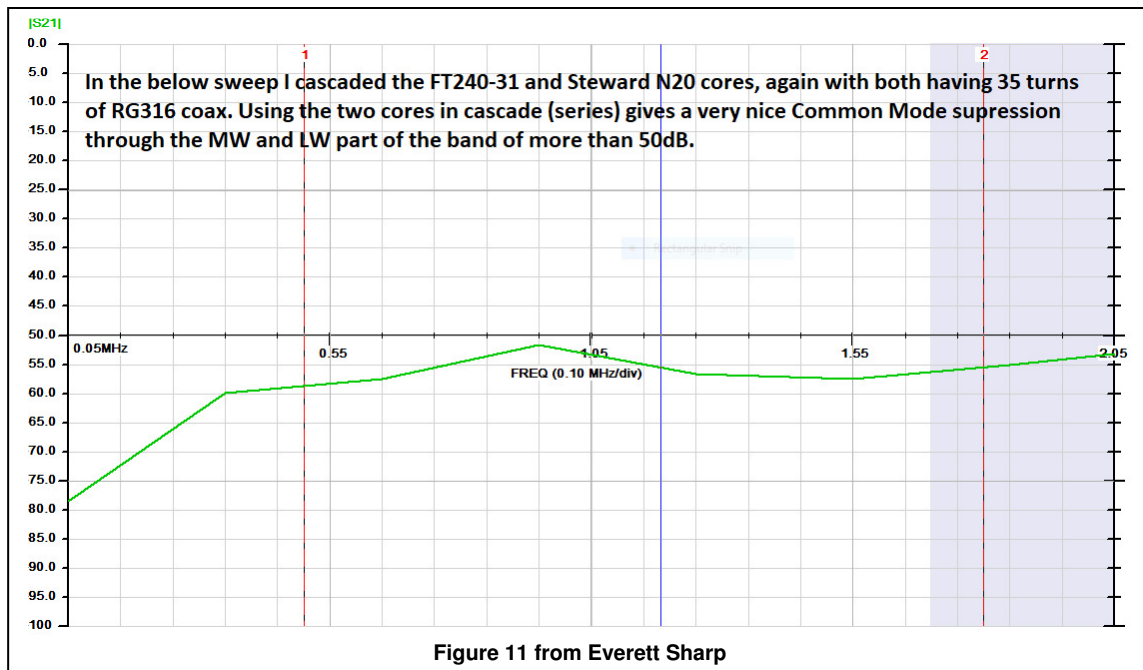


Figure 11 from Everett Sharp

References for further study

Sources of ferrite cores

<https://palomar-engineers.com/ferrite-products/>

<https://partsandkits.com/toroids.php>

<http://www.amidoncorp.com/ferrites/>

<https://www.mouser.com/> (search for Fair-Rite parts; <https://www.arrow.com/>, <https://www.digikey.com/>, <https://www.newark.com/> also carry a number of different manufacturer's cores)

(<https://palomar-engineers.com/ferrite-products/ferrite-cores/toroid-cross-reference> is a good cross reference for different manufacturer's ferrite cores)

Further reading

https://www.pa0nhc.nl/RXloop_PN2222/indexE.htm

<http://www.pa0nhc.nl/CommonModeChokes/indexE.htm>


<http://www.yccc.org/Articles/W1HIS/CommonModeChokesW1HIS2006Apr06.pdf>

<http://k9yc.com/RXChokesTransformers.pdf>

<http://audiosystemsgroup.com/NCDXACoaxChokesPPT.pdf>

<http://www.karinya.net/g3txq/chokes/>

(many of the above are aimed at radio amateurs, and their need for common mode chokes in transmitting, but include plenty of worthwhile theoretical and practical information not found elsewhere) plus a video from W1VLF concerning his experiments: <https://www.youtube.com/watch?v=b0Jx-on3YIA&feature=youtu.be>



GEOMAGNETIC INDICES – Compiled by: Phil Bytheway
 Email: DXM.EIC@gmail.com

Geomagnetic Summary March 1 2020 through March 31 2020

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

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

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

IRCA Mexican Log, 22nd Edition (Winter 2019)

The **IRCA MEXICAN LOG** lists all AM stations in Mexico by frequency, including call letters, state, city, day/night power, slogans, schedule in UTC/GMT, formats, networks and notes. The call letter index gives call, frequency, city and state. The city index (listed by state, then city) includes frequency, call and day/night power. The transmitter site index (listed by state, then city) tabulates the latitude and longitude of transmitter sites. Also, in this edition, there is a spread sheet with links to web sites, live broadcasts and facebook page of many of the Mexican stations. This is an indispensable reference for anyone who hears Mexican radio stations. Size is 8 1/2" x 11".

The 2019 Mexican Log .pdf is posted on the IRCA website for all to download. The link is:
https://www.ircaonline.org/editor_upload/File/2019%20Mexican%20Log.pdf

IRCA Slogans List (September 2019)

The 2019 Slogans List includes radio slogans from the US and Canada (over 4600) as gleaned from various DX publications and monitoring. The 2019 IRCA Slogans List is posted on the IRCA website for all to download. The link is: https://www.ircaonline.org/editor_upload/File/2019_IRCA_slogans.pdf

The IRCA is a non-profit organization devoted to the hobby of hearing distant stations on the Broadcast Band (510-1720 kHz). **DX Monitor**, the official publication of the IRCA, is published in "soft" form 35 times a year (weekly from October through March, twice monthly from April to October.) **DX Monitor** contains members' loggings, articles on radio stations, receiver reviews, technical articles, DX tips, and other material of interest to Broadcast Band DX hobbyists.



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MEMBERSHIP DUES

Worldwide \$5 (for the first year – ie a joining fee)
Worldwide \$0 (subsequent years – ie renewal)

Make checks and Money Orders in US funds payable to IRCA
All dues and address changes go to: IRCA, PO Box 60241, Lafayette LA 70596

Pay electronically with PayPal. Go to www.paypal.com, then send your dues to ircamember@ircaonline.org – contact Lynn Hollerman for more information.

For information on **subscribing to the IRCA mailing list** at Groups.io, a group Email service, contact the moderator, Lynn Hollerman at lynnhollerman@yahoo.com.

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