



DX MONITOR

The official publication of the
International Radio Club of America

January 11 2020 – Volume 57 Number 19 – Edition 1831 – ISSN 899-9733

IRCA welcomes: **Craig Anderson** in Hudson WI, **Walter Burbank** in Auburn ME and **Richard Dau** in Omaha NE (rejoin). Seattle deadline for our next issue (V57_N20) is **Monday 01/13/20 1600 PLT** – pb

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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>



CANADIAN RADIO NEWS – Dan Sys

Email: sysdan@gmail.com

For December 2019: January 1 2020

NEW STATION LAUNCHED

1350 ON Brampton CIRF Commercial. 1000 watts (days)/45 watts (nights). South Asian. Radio Humsafar.

OFF THE AIR

600 QC Montreal CFQR Temporarily off the air due to windstorm damage. Should be back on in early 2020.
940 QC Montreal CFNV Temporarily off the air due to windstorm damage. Should be back on in early 2020.



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

Email: NancyJohnson@prodigy.net

WDXR DEADLINES: Thursdays Jan. 9, Jan. 16, Jan. 23, Jan 30, Feb. 6, Feb. 13, Feb. 27, March 12, March 26, April 9. Please use Eastern Local Time.

REPORTERS FOR THIS ISSUE:

- (JCJ) **John Johnson**-2922 S Olivewood, Mesa AZ 85212 John_Johnson@prodigy.net
SDRplay RSPduo, Icom IC-R75, Wellbrook ALA1530LNP
- (JP) **Jon Pearkins**-Edmonton AB jon@pearkins.com
Sangean PR-D15 on batteries with 200 mm internal antenna
- (MS) **Mike Sanburn**-PO Box 1256-Bellflower CA 90707-1256 mikesanburn@hotmail.com
Sangean DT 160

- 670 KBOI **ID**, Boise 12/25 1850 message from Independent Doctors of Idaho followed by "Jingle Bell Rock." Mentions of 670 KBOI on iHeartRadio app. Strong in KIRN null. (MS-CA)
- 790 KJRB **WA**, Spokane 1/2 0423:25 just the words "94.1 The Bear" as a splitter by a female voice between two 90's Hot AC songs, weak but all alone nulling KGH; also heard at 0000. Otherwise, not heard since they went non-directional 34 watts at night. (JP-AB)
- 1050 KCAA **CA**, Loma Linda 12/25 1942 gave website kccountryjunction.com, classic country song "Right or Wrong." (MS-CA)
- 1450 KCOD **CA**, Palm Springs 12/30 2336 briefly dominant with ID/slogan "KCOD 99.9 Coachella FM." They are based at College of the Desert. Needed for call change, ex-KPSI, KGAM, etc. for me. (MS-CA)
- 1490 KOSJ **CA**, Santa Barbara 12/30 2222 good with old school jam "Midnight Train to Georgia" by Gladys Knight and the Pips. (MS-CA)
- 1510 KSFN **CA**, Piedmont 12/28 0500 legal ID "This is KSFN 1510 Piedmont California" followed by ID in Spanish and Deportes. (MS-CA)
- 1550 KWRN **CA**, Apple Valley 1/1 mixing with another Spanish station (KXEX?), 2200 out of music with "KWRN Apple Valley" legal ID. New logging. Nancy and I must thank Paul Walker as he wanted us to check to see if KUAZ was on past their signoff time. KUAZ was off, and we got a new station logged. (JCJ-AZ)

Thank you to our three reporters this week. I can't believe that I have been your WDXR editor for 45 years now! As my mother used to tell me "The older you get, the faster time goes." That statement is very true. It doesn't seem that long ago I would type WDXR on stencils and mail the column to Don Erickson. – Nancy 1/3 1700



CENTRAL DX ROUNDUP – John C Johnson – 2922 S Olivewood – Mesa AZ 85212-2923

Email: John_Johnson@prodigy.net

CDXR reports ONLY: cdxr@ircaonline.org

RIDING GAIN

[EB-MO] **Eric Bueneman**, Hazelwood MO NUIHEric@gmail.com
CountyComm GP-5/SSB Gen 3 Ultralight receiver, Grundig AN-200 tunable loop, Yaesu FRG-7, Worcester Space Magnet II, National NC-60 Special, Apex 303WA-2 LW/AM/SW vertical antenna

DOWN THE DIAL

- 1050 CHUM **ON**, Toronto. 12/28 fair signal, mixing with XEG. 2118 noted with Toronto Raptors post-game show. [EB-MO]
- 1260 KBRH **LA**, Baton Rouge. 12/31 fair to poor signal, mixing with WNDE through WSDZ. 0425 with R&B Oldies format, promo mentioning KBRH. [EB-MO]
- 1300 WQPM **MN**, Princeton. 12/28 fair to poor signal, mixing with WNQM, WOOD. 0325 noted with Christmas music and local spot. [EB-MO]
- 1370 WLLM **IL**, Lincoln. 12/31 fair to poor signal, mixing with other stations, ACI from KXFN 1380. 0356 noted with light Christian vocal music, multi-station legal ID at 0400. [EB-MO]

- 1410 WISM WI, La Crosse. 12/30 good signal over WING. 0459 noted with weather forecast, "Whiz-'em is WIZM La Crosse, news, talk 14-10 AM and 92-point-Three FM" legal ID into CBS News. [EB-MO]
 1430 WRMG AL, Red Bay. 12/27 fair to poor signal, mixing with other stations; local KZQZ off. 0315 noted on overnight with "WRMG 97-point-Nine FM" ID into rock music program; listed as Country in the NRC AM Log. [EB-MO]

FLASHBACK

50 Years Ago – January 10 1970 issue of "DX Monitor" ... **Marv Garber** of Lincoln NE told about all the strong TA signals including listening to RNE 737 while writing his forum report ... **Ralph F Kemper** of Grand Junction CO mentioned his receiver was a \$14 Norelco. He had logged some 600 stations ... **Mike Pawlowski** of Lansing IL verified state #33 with WVOJ's verie ... **Lynn D Brooks** of Ponca City OK missed all of the 12/29 DX Tests because of not getting back from a disaster called the Cowboy-vs-Brown playoff game in a heavy snow storm. // **25 Years Ago** – January 7 1995 issue of "DX Monitor" ... **Ernest Cooper** of Provincetown MA reached 4,468 verie count total. This week's Flashback IRCA DXer is **Ernest Wesolowski**....



OPEN MIKE

Thanks to Eric for reporting this week. Nancy recalled her first WDXR typed was #17 for Volume 12. This "DX Monitor" issue is #19 for Volume 57. So, Nancy has been your WDXR editor for 45 years now! This column was typed 1-3-20. 73, John



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

TUNING THE DIALS THIS ISSUE:

(PS-ON) **Paul Snider**, London ON, Canada paulisnider@yahoo.ca
 Elad FDM-S2 software-defined receiver, Pixel RF Pro-1B loop, MFJ-1020C as a tuner

ACROSS THE DIAL

- 1300 WRDZ IL, La Grange – 12/28 2344 noted with a female announcer with a local spot in Polish, into a talk show in polish, hosted by a different female announcer before eventually fading out. A fair at first to poor signal was noted, mixing with WOOD and other stations; confirmed via Simple Radio Web stream. (PS-ON)
 1390 WGRB IL, Chicago – 12/29 0020 noted with Urban Gospel format, "Inspiration 1390" slogan at 0032. A fair at times to very poor signal was noted, mixing with WLAN and WNIO; first time heard in London. (PS-ON)
 WLAN PA, Lancaster – 12/29 0032 noted with Contemporary Hit Radio format, "Rumba 1390" slogan in Spanish at 0034. A poor to very poor signal was noted, mixing with WGRB and WNIO. (PS-ON)
 1520 WKVI IN, Knox – 1/3 0019 on after sunset; trying to ID this off and on for over an hour. Noted with a Country format, including a selection by The Band Perry, two PSAs with one mentioning Indiana into another music set. A sometimes fair to mostly poor signal was noted, mixing with WWKB; confirmed via Tune-In Web stream. First time heard in London. (PS-ON)

EDITOR'S NOTES

Thanks to Paul for his logs this week. **Kraig Krist** sends this information concerning the Northern Virginia Community College parking information stations: "When I first heard the NVCC parking info on 1630, probably around 2005, I looked up the call sign at the FCC; the FCC listed KHB36. When I now check the FCC site, all the NVCC campuses with parking info on 1630 kHz all use the same call of WQHK899." Thanks for clearing that up, Kraig! I also DX the NOAA Weather Radio bands and look up station information when I hear a new station. I somehow connected the KHB36 calls to Manassas, looking up the call on the NOAA Weather Radio site. 73 and good DX from NØUIH, the Florissant Valley Dial Twister.



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

*** TRANS-ATLANTIC DX ***

- 531 **ALGERIA** Jil FM, F'kirina Wilaya d'Oum El Bouaghi. NOV 20 2201 – Woman with Jil FM ID's, pop music; good. {A}
 +NOV 25 0432 – Jil FM ID. {A} [Connelly-MA]
 540 **HUNGARY** MR1 Kossuth Radio, Solt. NOV 29 0500 – Piano music, 5 pips, interval music; fair in jumble. {A} [Connelly-MA]
 549 **ALGERIA** Jil FM, Les Trembles. NOV 2 0400 – 2+2+1 pips, fanfare music, ID's by man then woman; over WDEV slop. {A} [Connelly-MA]
 576 **ALGERIA** Chaîne 1, Kenadsa (Béchar). NOV 24 2130 – 1 kHz tone test; well over others. {A}
 +NOV 25 0523 – Tone test in duke-out with RNE Spain-Canaries. {A}
 +NOV 28 0443 – Tone test strong. {A}
 +NOV 29 0459 – 1 kHz tone; presumed RNE under. {A} [Connelly-MA]
BULGARIA BNR Horizont, Vidin/Gramada. NOV 8 2200 – Man and woman Slavic talk, pips, stern Commie-type anthem with chorus; to fair peak, generally dominant. {A} [Connelly-MA]
 603 **ROMANIA** Radio România Actualitati, Botosani/Oradea. NOV 1 2200 – 6 pips, fanfare music; poor. {A}
 +NOV 22 2300 – Man with ID "Radio Romania Actualitati, hora exacta", 6 pips, fanfare music; good. {A} [Connelly-MA]
SPAIN RNE5 synchros. NOV 2 2100 – RNE news intro; poor. {A}
 +NOV 9 2200 – Music, 5+1 pips, RNE news intro; fair over likely Romania. {A} [Connelly-MA]
 612 **MOROCCO** SNRT Al-Idaa al-Watania, Sebaa-Aioun. NOV 7 2200 – Arabic male vocal and orchestra, attention music, Arabic newstalk by man, "stingers" between news items; fair. {A} [Connelly-MA]
 639 **SPAIN** RNE1, La Coruña et al. NOV 20 2100 – Discussion, 5+1 pips, time check, fanfare music, ID "24 horas, Radio Nacional de España"; fair. {A} [Connelly-MA]
 684 **SPAIN** RNE1, Sevilla. NOV 1 2300 – Music, 5+1 pips, fanfare, ID Radio Nacional de España; through WRKO slop. {A} [Connelly-MA]
 693 **UNITED KINGDOM** BBC Radio 5, Droitwich et al. NOV 1 2300 – Rugby World Cup mention, BBC Radio Five Live ID, news about candidates; fair. {A}
 +NOV 18 2200 – ID BBC Radio Five Live, talk about crime; fair. {A} [Connelly-MA]
 738 **SPAIN** RNE1, Barcelona. NOV 1 2200 – 5+1 pips, timecheck by woman, fanfare music, ID by man "Radio Nacional de España, servicios informativos", news in Spanish by woman; fair to good. {A}
 +NOV 1 2200 – Radio Nacional de España, servicios informativos ID; fair. {A} [Connelly-MA]
 747 **CANARY ISLANDS/SPAIN** RNE5 synchros. NOV 11 0519 – Radio Nacional mention; loud. {A}
 +NOV 22 2200 – 5+1 pips, woman with time check, fanfare music, man "Radio Nacional de España, servicios informativos", Catalunya mention in news; excellent. {A} [Connelly-MA]

- 756 **ROMANIA** SRR Radio România Actualități, Lugoj/Boldur. NOV 6 2200 – Orchestral music, man with ID "Aici Bucuresti, Radio Romania Actualitati, hora exacta"; good. {A}
 +NOV 13 2200 – Music then Radio Romania Actualitati, hora exacta ID, 6 pips; good. {A} [Connelly-MA]
- 783 **SYRIA** SRTV 1, Tartus/Besira. NOV 2 2100 – Woman in Arabic; fair. {A}
 +NOV 3 2100 – Music flourish, woman in Arabic; to good peak. {A}
 +NOV 4 0301 – Interval signals, march anthem; good. {A}
 +NOV 18 2200 – Music, reverberated talk by man & woman; to good peak. {A} [Connelly-MA]
- 810 **SCOTLAND** BBC Radio Scotland. NOV 2 2100 – BBC Radio Scotland ID by woman; through jumble. {A}
 +NOV 3 2100 – Woman "BBC Radio Scotland"; just a bit under WGY. {A}
 +NOV 6 2200 – BBC Radio Scotland ID, news; atop WGY and possible Macedonia. {A} [Connelly-MA]
- 837 **CANARY ISLANDS/SPAIN** COPE synchros. NOV 1 2200 – COPE ID's; good. {A}
 +NOV 11 0533 – Man in Spanish with Catalunya mention; good. {A} [Connelly-MA]
IRAN IRIB Radio Esfahan, Esfahan/Habibabad. NOV 1 2300 – Uptempo Middle Eastern music, woman with Radio Esfahan ID; dominant, little co-channel COPE at time. {A} [Connelly-MA]
- 855 **SPAIN** RNE1, Murcia et al. NOV 2 0400 – 5+1 pips, man with time check, fanfare music, man "Radio Nacional de España, servicios informativos"; good. {A}
 +NOV 29 0438 – Radio Nacional de España ID in talk; loud. {A} [Connelly-MA]
- 864 **EGYPT** Holy Koran Program, Santah. NOV 2 0401 – Koranic a cappella male vocal; over slop. {A}
 +NOV 3 2100 – Koranic a cappella male vocal, talk by man, 4+1 pips (last higher pitch), vocal and reverberated Arabic talk; to good peak. {A} [Connelly-MA]
- 882 **CANARY ISLANDS/SPAIN** COPE synchros. NOV 17 0459 – COPE Spanish talk mostly over UK. {A} [Connelly-MA]
UNITED KINGDOM BBC Radio Wales, Washford et al. NOV 2 2200 – Beatles "In My Life", BBC mention; through slop. {A}
 +NOV 7 2200 – Woman with BBC Radio Wales ID (15 seconds into audio clip); fair. {A}
 +NOV 17 0430 – BBC report involving American politics; fair, audio somewhat mushy. {A} [Connelly-MA]
- 909 **UNITED KINGDOM** BBC Radio 5 synchros. NOV 1 2200 – BBC Radio Five Live ID, mention of England against South Africa in Rugby World Cup; good. {A}
 +NOV 7 2101 – BBC Radio Five Live ID; good. {A} [Connelly-MA]
- 918 **SPAIN** Radio Inter, Madrid/Pozuelo. NOV 20 2200 – Pips, Spanish talk and music; in slop. {A} [Connelly-MA]
- 936 **MOROCCO** SNRT, Agadir. NOV 1 2300 – Orchestral music with flute and strings, talk by man mentioned Agadir; over jumble. {A} [Connelly-MA]
- 999 **SPAIN** COPE, Madrid. NOV 1 2100 – Fast talk by woman and man, COPE mention, attention music, 5+1 pips, news and "COPE estar informado"; to good peak. {A}
 +NOV 8 2130 – Fanfare music, "COPE, estar informado", news; good. {A} [Connelly-MA]
- 1044 **SPAIN** SER, San Sebastian/Valladolid. NOV 4 0300 – Lively intro music, 5+1 pips, woman with news; loud. {A}
 +NOV 22 2100 – Radio San Sebastian ID and website mention, 5+1 pips, fanfare music, news by woman; to good peak. {A} [Connelly-MA]
- 1053 **UNITED KINGDOM** TalkSport synchros, Droitwich et al. NOV 19 2159 – TalkSport mention; fair over slop. {A} [Connelly-MA]
- 1089 **UNITED KINGDOM** TalkSport synchros. NOV 3 2030 – TalkSport mention in talk; fair. {A}
 +NOV 4 0301 – Auto racing report, talk about election, stabbing in London, decriminalizing drugs; good, some echo. {A}
 +NOV 4 2200 – Volvo car financial services advert, ID "Official Broadcast Partner of the Premier League, TalkSport"; good. {A}
 +NOV 9 2201 – "Online, on your mobile, and on DAB digital radio: Official Broadcast Partner of the Premier League, TalkSport"; to good peak. {A}
 +NOV 12 2100 – TalkSport app promo, mention of upcoming VAR (video assistant referee) discussion, talk about a murder case; good. {A}
 +NOV 13 2130 – Talk about games at Wembley; strong signal, big synchro echo. {A}
 +NOV 15 2159 – Lottery advert using cover version of McCartney "Let 'em In", car maintenance advert, TalkSport app promo; good. {A}
 +NOV 22 2100 – Vauxhall car advert, TalkSport ID, news about rape case; good. {A} [Connelly-MA]
- 1098 **SPAIN** RNE5 synchros. NOV 9 2200 – 5+1 pips, RNE news intro music; fair. {A} [Connelly-MA]
- 1107 **SPAIN** RNE5 synchros. NOV 9 2200 – 5+1 pips, woman with time check, fanfare music, Radio Nacional de España ID; slight synchro echo. {A} [Connelly-MA]
- 1125 **SPAIN** RNE5 synchros. NOV 2 2200 – 5+1 pips, time check, fanfare music, Radio Nacional de España ID; some echo, through WBBR slop. {A} [Connelly-MA]
- 1152 **ROMANIA** SRR Radio România Actualități, Cluj-Napoca/Jucu. NOV 4 0300 – Chorus/anthem, hora exacta mention, pips; fair. {A} [Connelly-MA]
- 1170 **UNITED ARAB EMIRATES** Sawt Al-Joumhouria, Al-Dhabbaya. NOV 3 2100 – Attention music, "Joumhouria" mention by woman at 16 seconds into audio clip; fair. {A} [Connelly-MA]
- 1179 **ROMANIA** SRR Radio România Actualități, Galbeni/Bacau. NOV 3 2100 – Vocal, man with ID "Aici Bucuresti, Radio Romania Actualitati, hora exacta", 6 pips, fanfare music, news; good. {A}
 +NOV 10 0400 – ID Radio Romania Actualitati, hora exacta, 6 pips; good. {A} [Connelly-MA]
- 1215 **UNITED KINGDOM** Absolute Radio synchros. NOV 3 0338 – Contest to win a van, Planet Millions casino advert, promo to use radio for advertising, Absolute ID; good. {A}
 +NOV 4 2200 – Adverts for boilers by British Gas, Luke Combs C&W album, Sky and Netflix for 25 pounds a month; good. {A}
 +NOV 13 2129 – End of Queen "Bohemian Rhapsody", talk "music on Absolute Radio"; good. {A}
 +NOV 15 2153 – Woman with Absolute Radio tenth birthday mention, promo to vote for best songs of the '80s; good. {A}
 +NOV 19 2101 – Collage of song clips, Absolute Radio ID; good. {A} [Connelly-MA]
- 1296 **SPAIN** COPE Valencia, Valencia/Castellar. NOV 4 0301 – Fast Spanish talk including COPE mention; good. {A} [Connelly-MA]
- 1341 **NORTHERN IRELAND** BBC Radio Ulster, Lisnagarvey. NOV 10 2100 – Slow instrumental version of "Ode to Joy", ID mentioning 1341 medium wave and BBC Radio Ulster, into BBC news; to fair peak. {A}
 +NOV 19 0500 – BBC Five Live news; fair peak. {A} [Connelly-MA]
- 1386 **LITHUANIA** Radio Baltic Waves/Radio Liberty, Viesintos. NOV 3 2030 – Slavic folk male vocal; fair. {A}
 +NOV 16 2000 – Radio Svoboda ID's; noisy. {A} [Connelly-MA]
- 1467 **FRANCE** TWR Europe, Roumoules. NOV 4 2201 – Soft music, man in Arabic; to good peak over WLAM slop. {A}
 +NOV 6 2201 – Arabic or similar language talk by man, brief music interlude; through WLAM slop. {A}
 +NOV 7 2130 – Arabic sounding talk by man; to good peak over splash. {A} [Connelly-MA]
- 1530 **SAO TOME E PRINCIPE** VoA, Pinheira. NOV 4 2200 – VoA sign-off announcement; mixed with WLCO-MI. {A} [Connelly-MA]
- 1548 **MOLDOVA** TWR, Grigoriopol. NOV 6 2100 – TWR interval signal; good. {A}
 +NOV 8 2130 – TWR musical-box interval signal; good. {A}
 +NOV 13 2130 – Talk by woman, musical interlude, TWR interval signal; through slop. {A} [Connelly-MA]

*** PAN AMERICAN DX ***

- 530 **CUBA** Radio Enciclopedia and Radio Rebelde. NOV 5 0000 – Enciclopedia then Rebelde ID's noted in co-channel Cuban shoot-out. {A} [Connelly-MA]
- 560 **CUBA** Radio Rebelde, Ciego de Ávila. NOV 13 0500 – Cuban anthem mixed with WFIL; both over nulled WGAN. {A} [Connelly-MA]
- 580 **PUERTO RICO** WKAQ, San Juan. NOV 1 2359 – WKAQ Cinco Ochenta AM San Juan ID and list of other affiliates, website; loud. {A} [Connelly-MA]
- 600 **COLOMBIA** HJHJ, Radio Libertad, Barranquilla. NOV 2 0001 – Barranquilla advert with phone numbers; over Cuba and WYEL. {A} [Connelly-MA]
- 700 **ECUADOR** HCRS2, Radio Sucre, Guayaquil. NOV 13 0500 – Fast Spanish talk by man includes Radio Sucre ID (6 sec. into audio clip). Under WLW. {A} [Connelly-MA]
- 780 **VENEZUELA** YVMN, Radio Coro, Coro. NOV 6 0442 – Coro jingle, time check; over WBBM. {A} [Connelly-MA]
- 840 **HAITI** Radio-Télé 4VEH, Cap Haitien-Petite Anse. NOV 2 0000 – Electronic "Dashing Through the Snow" interval signal; over WHAS. {A} [Connelly-MA]
- 880 **PERU** OBZ4N, La Voz de la Liberación/Radio Unión, Lima. NOV 17 0626 – Spanish religious talk by man. WCBS off air at time. ID help via Jari Savolainen on RealDX list "In the first clip is mentioned Esmeraldo Gonzalez who is IPDA pastor in Paraguay. I'd guess this station is the same Radio Union, Lima that was discussed earlier." (in a logging by Roy Barstow, MA) "Part of the "pastor internacional" Esmeraldo Gonzalez's sermon was on the stream of Radio Union 880 AM at ' www.radiounion.pe '."
 +NOV 17 0638 – Same announcer as at 0626 UTC. {A}
 +NOV 17 0736 – as above [Connelly-MA]

- 940 **PUERTO RICO** WIPR, San Juan. NOV 2 0001 – Woman "Esta es WIPR, nueve cuarenta AM, San Juan, Puerto Rico", website mention; good, alone on channel. {A} [Connelly-MA]
 1570 **MÉXICO** XERF, Ciudad Acuña, COAH. NOV 13 0501 – La Poderosa slogans, Spanish talk with XERF ID; mostly in the clear with CJLV pest nulled. {A} [Connelly-MA]

CONTRIBUTOR

[Connelly-MA] **MARK CONNELLY**, South Yarmouth/Cape Cod MA **MarkWA1ION@aol.co**
 (GC= 41.6931 N/70.1912 W) (= 41° 41.59' N/70° 11.47' W) (grid FN41vq)
 {A} in entry indicates that audio can be accessed from link on the following page: http://www.qsl.net/wa1ion/doc1/audio_2019.htm
 Receiver: Elad FDM-S2: See <http://shop.elad-usa.com/sdr-radio/fdm-s2/>
 Antenna-1: Cardioid pattern SuperLoop: 9m vertical by 20m horizontal (peak 75 degrees, null 255 degrees.) See <http://www.bamlog.com/superloop.htm> for similar antenna type.
 Antenna-2: Cardioid pattern Kaz Delta: 6m vertical by 14m horizontal (peak 160 degrees, null 340 degrees.) See http://www.infotechcomms.net/downloads/Kaz_MW_Antenna.pdf and <http://www.bamlog.com/deltacompare.htm> for similar antenna type.



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

Menauhant Beach DX (Roy Barstow via IRCA eGroup)

This DX on 12/24-25/2019. Much static on the band due to a storm around VA. But still decent DX.

2100 – 110°

- | | |
|--|--|
| 720 SPAIN Pips into news. Fair. | 1467 FRANCE Good with talk. This station of late in with a nice signal. Maybe you guys on the West coast have picked it up. |
| 756 ROMANIA Fair w/news. | |
| 864 EGYPT Talk to a good peak. | |

2115 – 110°

- | | |
|---|-------------------------------|
| 1206 ISRAEL with talk and another station under them with accordion music. | 1305.106 UnID carrier. |
|---|-------------------------------|

2130 – 110°

- | | |
|--|--|
| 531 ALGERIA Jill FM running a Coran program. | 945 UnID Slow music at S 5-6. And something under them. |
| 828t SOUTH AFRICA Playing EZL music. | 954 CZE and SPAIN mixing. |
| 846 UnID Carrier. | 1161t EGYPT Music and 3 pips heard. |
| 936 MOROCCO Talk and 1 more station under them. | |

2145 – 120°

- | | |
|--|--|
| 576 ALGERIA On top with French talk. | 945t IRAN Talk. Going by the intonation of the man speaking. Weak. |
| 594 SAUDI ARABIA Talk to a fair peak //1521. This station I can only use LSB as the Morocco station always stronger a little higher in frequency. | 1062 ITALY Music or the Midnight Mass. Noise and splatter. //1575. This station leaves it's carrier on after it goes off making it hard to receive anything else. |
| 595.1 MOROCCO Fair w/talk. | 1467.378 IRAN carrier. |
| 612 MOROCCO Also in fair //595.1 | |
| 702 ALGERIA Talk to a fair peak. | |

2200 – 120°

- | | |
|---|--|
| 783 SYRIA Talk in fair. This station does not seem to have the punch it had for the last month. | |
| 828 Magic 828 Still not strong enough for a good log. During summer below the equator this station is a semi-regular at Menauhant Beach along with others. | |

2230 – 120°

- | | |
|---|--|
| 630 PUERTO RICO WUNO under WPRO. | 750 CANADA CBGY, NF. On top with a woman giving the weather report. Many from NF come in on my beach treks. |
| 640 CANADA NF. Good and on top. | 855 SPAIN with talk and ROMANIA under with music. |
| 711 MOROCCO Man singing a Mideast tune. Fair toward end of file but w/slop. //612. | 1039.600 VENEZUELA Valencia. The conditions dictate if audio heard. |

2300 – 120°

- | | |
|---|---|
| 576 ALGERIA At top of hour pips into drumming then men singing. So presume NA. | 680 PUERTO RICO WAPA. More or less alone under WRKO. |
| | 820 USA WUSG, Columbus OH. On top. |

2330 – 90°

- | | |
|--|--|
| 640 CUBA Progreso. On top at the end of file. | 963 TUNESIA Probably them with EZL. |
| 774 EGYPT Koran mixing with SPAIN . | 1439.715 VA . |
| 891 ALGERIA Fair. | |

0000 – 130°

- | | |
|---|---|
| 670 CUBA On top near end of file. Like, how fast can a Cuban woman talk! | 1290.303 BRAZIL Portuguese talk. Good at S 8 with USB. A normal summer station. Screen shot (next page). |
| 710 CUBA Rebelde. Under WOR. //670. | 1431 DJIBOUTI Talk w/splatter. |
| 810 COLOMBIA Bogotá. Thanks to JC Fontario and Sylvain Naud. | 1710 UnID with Christmas music. S 8-9+10. |
| 940 PUERTO RICO WIPR. Good holding down the channel with festive music. | |

0030 – 155°

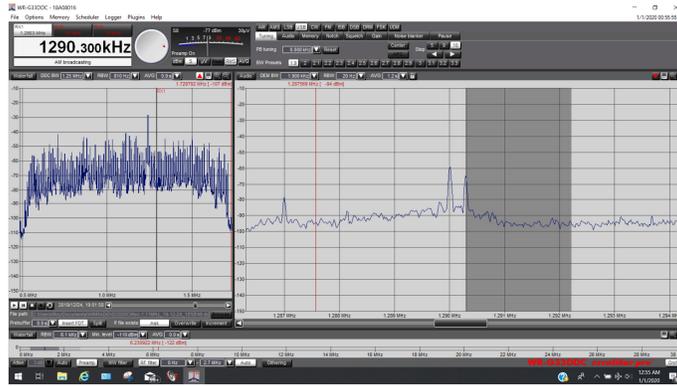
- | | |
|--|-----------------------------------|
| 580 PUERTO RICO WKAQ. On top with Latin music. This station comes in often. | 1020t CUBA Talk and music. |
| 950 CUBA Radio Reloj. In the mix. | 1370 USA WTAB NC. ID. |

0124 – East

- 1510 **ECUADOR** Radio Naval. With time clock. Also another Spanish station which could be Radio monumental, Quito. With a more or less open frequency one can go far.

0130 – 140

- | | |
|---|---|
| 700t ARGENTINA 1+1 pip heard. The other pip not heard. Many Argentina stations use 2+1 pips on the half hour. This under others. | 830 UnID Spanish on top at the time. |
| 760 BRAZIL Portuguese speaker in the mix. 5+1 pips also heard in the mix. | 900 CUBA A little bit of theme music then a man saying Progreso. |
| 770 UnID Spanish 2 Spanish stations heard under NYC. | 1500 UnIDs 2 stations under WFED. A Spanish talker and the other mainly Christmas music. |



I am starting to pick up more from the South. It may be a good Summer for below the Equator DX, duking it out with the static.
 OLD ROY FROM OLD CAPE COD

**The Best DXing since the Last Solar Minimum: Masset December 26 – January 3 2020 (loggings above the Tropical Band removed – pb)
 (Walt Salmaniw)**



Figure 1 – There's not just fantastic DXing in Masset!

I have just returned from a fantastic trip to my second home and cottage near Masset, on the islands of Haida Gwaii, approximately 100 km off shore from northern BC and about 70 km due south of Ketchikan, AK. Arriving near noon on Dec 26 2019, I found the weather unseasonably warm with temperatures in the 10 to 12 deg C range. That lasted until the 1st of January, when temperatures dropped below zero, and was followed by about 15 cm of snow.

As you may know, Masset is the location of one of the famous USN designed Wullenweber SW antenna arrays. It's located approximately 5 km west of my location, also on the sand dunes of Haida Gwaii. Perhaps in a small way, we're able to replicate some of the work that goes on in that still secret facility. When I was first posted to Masset as a medical officer in the early 1980s, there were some 300 Canadian military and USN personnel stationed here. In the early 1990s, the station closed, leaving a maintenance staff of 6 military personnel. The array is still operational, but is remotely operated out of Leitrim, Ontario, near Ottawa.



As for my setup, I quickly erected a new large diameter ALA 100 LN antenna, approximately 60' base x 40' height, with the bottom base about 7' above the ground, and aimed N/S. This replaces a previous ALA closer to the beach, but much smaller. It turned out to be a very hot performer, especially to Europe in our evenings when that path was open, but sometimes would be a poor third. I'm thinking this had to do with angle of arrival of signals.

My second antenna was a 500' Beverage North. This antenna was also an excellent during the day on 49 and 41 meters, which was experience! The 3rd antenna was my (Beverage on ground) aimed NW. The latter is seasons to Asia, especially Japan, Korea, and during our local mornings until Europe and time I'd switch to the North Beverage (which day for European MW DXing during my local when the ALA consistently outperformed the N did experiment, briefly, with a PA0RDT active

terminated into the surf aimed due performer to Europe on MW and SW open all day long and very enjoyable to longstanding go-to antenna, a 750' BoG always a superb antenna during all China. It was always my go-to antenna Central Asia started to fade in, at which always outperformed the ALA during the day... the opposite of our local evening Beverage to Europe and Central Asia). I antenna, which really wasn't up to the task for anything useful.

On the receiver side, I brought 3 Perseus SDR receivers with me, as well as an AOR 7030+ which stays in Masset, as well as 3 laptops operating. One Perseus was used exclusively with Mestor recording several TB of wav files, while another was used for live DXing. The last Perseus, and the AOR were used mostly for longer mp3 recordings of interesting programming. This was probably the best equipped DXpedition I've ever embarked on, and also the one virtually free of any problems. All the antennas were fed via mil-spec coaxial cable with extremely weather resistant outer plastic sheaths and ample copper sheathing beneath this and a similar generous copper center wire. I made use of common-mode chokes as well. Both the BoG and the Beverage were amplified with excellent DX Engineering RPA-1 amps.

Of course, one cannot survive solely on DXing (although it came close to this on several superb days at the end of the year!). I am fortunate to have family, courtesy of my Haida spouse. I'm always royally treated with local fare, including Goose, turkey, Elk meat balls, delicious apple pie, and soup. All home-made, of course!



My beach is extremely picturesque, as well during the short day (between about 9:30 AM and 4:00 PM) and into the evening. I never grow tired of enjoying the gorgeous views, and the sound of the ocean!



Internet access is an interesting problem. One day, I hope to have fiber-optic access. In fact, the cable has been laid, but the final 150' to the cabin is still pending, although they keep promising that it might happen this year. I'm not holding my breath. In the meantime, I can only access a weak cell signal from the beach (and from our road). Here's my internet chair!

The view is often lovely, with Prince of Wales Island, AK off in the distance and always snow-peaked mountains. Ships are rarely seen, but fishing boats (crab boats this time of year) are more common.

Now it's time to offer you a selection of loggings from the past week. In my opinion, it was the best DXing since the last solar minimum, 11 years ago. I've been wishing for a repeat of those conditions, and finally, they occurred. The loggings are just a smattering of what I heard, and I know there are hundreds of stations more to be identified on the TBs of wav files collected and mp3 files recorded. It was a true joy to hear a 300 watt Latvian station (1485) at armchair copy, and literally hundreds of European/Central Asian/and African MW stations. However, I took the opportunity to tune all the way from LW (almost VLF) time signal stations, to the Medium Waves, all the way up to the Shortwaves. One only recalls the wonder of having little noise to deal with, and the subsequent results speak for themselves! As always, I'm really happy to get feedback and corrections.

- 40 **JAPAN** Mt Ohtakadoya 10 kW JJY. Dec 28 0423 – Remember the days of JJY on shortwave? Well, I dialed down to 40 kHz and sure enough there's JJY with time pips. Weak but in the clear. No chance trying for their other 60 kHz channel, as WWVB is very strong here. All heard on my N/S large diameter ALA 100LN antenna.
- 68.5 **CHINA** Shangqiu 90 kW BPC. Dec 27 1737 – I bet you didn't know there were other time signal stations in China? Sure enough. Good reception on my big ALA loop aimed N/S. Interesting that nothing's coming through on the North mini-Beverage, and NW BoG. Good to very good at 1510 on 28 Dec 2019.
+Dec 31 1606 – Seems like a very good morning for VLF time signal stations. I immediately see 3: BPC, WWVB on 60 kHz and JJY on 40 kHz with 10 kW. All 3 are quite strong. Checking on 60 kHz more closely, I can hear JJY at Mt Hagan with 10 kW as well, as the tone is slightly out of phase with WWVB. There was a brief CW ID given on JJY just before the 16th minute. There's a possibility that I also have Russia at Taldom (RBU) with 50 kW on 66.6 (I'm measuring what sounds like tones or CW on 66.667). Very weak, and tentative only.
- 77.5 **GERMANY** Mainflingen 50 kW DCF77. Jan 1 0724 – I can clearly make out the time signals from this German transmitter. Weak but pulsing 1/second. Only heard on the ALA 100 LN loop aimed N/S. Checking the WRTH, there is another 77.5 kHz station, but only with 1 kW and in Taiwan, which is in sunlight for a few more hours, so doubtful it's them.
- 100 **CHINA** Pucheng 800 kW BPL. Dec 28 0725 – I'm expecting this to be BPL, as there's a pretty reasonable signal, but perhaps just very weak tones. Listed from 0530 to 1330 but the WRTH from last year has no mode. A tentative!
- 189 **ICELAND** Gufuskalar 300 kW Rikisutvarpid Ras. Dec 26 2356 – Very strong reception and audible several hours ago, hours before LSS. Unfortunately, this has yet to translate to anything on MW, or other LW channels. Spoke to soon. Towards our LSS, things really picked up. Not spectacular, but plenty of TA in audio. As I type this at 0408, //207 is being heard at fair/good level //to strong 189. 207 is not heard very often here, mostly due to NDB interference.
+Dec 29 0136 – Strong again tonight, as it was 2 nights ago. Seems that when LW is in from Iceland, don't expect a lot of TA MW activity, if the first night and tonight so far as an indicator. How can I hypothesize why? //to the other less commonly heard transmitter on 207. Fair or better on that one.
+Dec 30 0052 – Superb reception for the last hour after spending an hour on the beach reading my emails. Of course, that does not translate to guaranteed TA MW activity as I've noticed for the past few days! I notice 198 BBC Droitwich with 500 kW with a pretty descent signal as well. 207 Rikisutvarpid with 100 kW is also coming in quite well. 252 RTE at fair level. And there's 531 Jil FM at good level... well practically LW, anyway!
+Dec 31 0051 – Exceptionally strong reception tonight and //207 which a few minutes ago was also very strong. Above the LW, 531 is already coming through with great strength from Jil FM!
- 225 **POLAND** Solec Kujawski 1000 kW Polskie Radio Jedyńka. Dec 31 0652 – After Iceland 189, the next strongest station on LW tonight. I took a couple hours off for dinner and relaxing. No internet here, nor TV, so found a DVD of Full Metal Jacket, and am half way through the movie. Wow, what a powerful (and disturbing) movie! Anyway, back to the dials. Seems like the MW have died down, but here come the Asians now!
- 257 **ALASKA** Fairbanks Chena 1000 watts CUN. Dec 30 0150 – Well heard on the North Beverage, and just audible on the others. The database mentions TWEB. It's there once I switched from narrow CW to AM.
- 283 **ALASKA** Dutch Harbor 50 watts DUT. Dec 28 1720 – NDB coming in very strong on this channel. I still remember trying to snag the AM station there, with it being one of the few, if not the only Alaskan that I still needed! I'm not very good at NDB catching. For example, what frequency exactly to tune, so I parked on 282 with narrow CW filter and there were 2 signals just a few Hz apart. One was DUT (which is listed as 283), and the other was CRN Sparrevohn-Cairn Mountain on 281 listed, with 1600 watts. Thank goodness the CW is slow enough to capture. No sign of Barrow whom I was most interested in on 281.
- 320 **CANADA** Whitehorse-Robinson 250 watts PJ. Dec 29 0219 – Had to 'razor' this signal from Athabaska, but it's possible, since they're very slightly different, with PJ being a smidgeon lower. Located north-east of me at 60deg26'22' and -134deg 51'41'. This kind of grows on you!
- 329 **CANADA** Athabaska AB 50 watts X2. Dec 29 0209 – NDB from Athabasca, northern AB (54 deg N 44'15' and -113deg 12'2'), so similar latitude to me. Oil Sands country. Very loud off the back side of the NW BoG and fair on the N Beverage. X= ___ 2= . . . ___
- 341 **ALASKA** Cold Bay – Elfee 1000 w ELF. Dec 29 0224 – A strong station on the N Beverage. Located at 55deg17'46' -162deg47'21'. Almost as strong on the NW BoG.
CANADA Burwash YT 1600 watts YT. Dec 29 0229 – Well heard on my North Beverage. To be decommissioned on 26 March 2020, so get it while you can! D = _ . . B = _ . .
- 375 **CANADA** Fort Simpson NT 1000 w FS. Dec 29 0252 – Very strong NDB located on the Mackenzie River at N61deg 47'9' and -121deg 15'38'. Best by far on the North Beverage, then the ALA, and worst on the NW BoG.
- 376 **ALASKA** Deadhorse/Put River 50 watts PVQ. Dec 29 0249 – Good reception with a very sharp filter. Located at 70 deg N 13'23' and -148 deg 25'2'. Heard best on the North Beverage.
- 383 **USA** Pocatello/Tyee, ID 25 w PI. Dec 29 0303 – I'm pleased with this low power NDB, 'PI' = . ___ . . . Located far to my south and off the back end of the NW BoG, at N42deg 57'49' – 112deg 30'59' Fair to good.
- 396 **ALASKA** Ketchikan/Clam Cove 50 watts CMJ. Dec 29 0320 – Well heard, of course with CMJ = _ . . . ___ . . .
- 397 **CANADA** Saskatoon/Yellowhead 1000 watts ZSS. Dec 29 0314 – It's getting easier and easier with practice to copy the CW code. Best off the back of the NW BoG, of course. ZSS = _
- 398 **CANADA** Cold Lake AB 316 watts YOD. Dec 29 0324 – A tough one to decipher as it's very close to the CMJ carrier, and only heard off the back side of my NW BoG.
- 399 **ALASKA** St George Pribilof 50 watts SRI. Dec 29 0312 – Another one I'm pleased with, way out on the Pribilof Islands. SRI reasonably strong and loudest on the NW BoG. And only 50 watts.

- 1161 **ALGERIA** In Salah 10 kW Radio Tamanrasset. Jan 2 0302 – Looking at MWList, the only Arabic style station on at this time should be Algeria. Egypt is listed 0400 to 2200 and IRN (close enough) is the World Service on until 0125. Relatively strong signal, but lowish modulation. Splatter from 1161 is not that bad, especially using the big ALA 100.
- +Jan 3 0512 – Quranic sounding recitations, so a tentative logging. May also be Egypt here. A tough frequency with a lot of splatter from 1170 KJNP (especially) and 1160 on the low side. Then for the next 15 minutes, I'm listening to western music. Wonder who it could be!
- 1179 **ROMANIA** Bacau/Galbeni 400 kW + 1 other Radio Romania Actualitati. Jan 2 0305 – Very good reception with modern English pop songs. I can hear Spain weakly in the background (that's good!). Another Romanian transmitter is listed in Resita with 10 kW.
- ROMANIA** 2 sites Radio Romania Actualitati. Jan 3 0504 – 2 sites of 400 and 10 kW listed. Romanian news. Whereas last night, pretty much all by themselves, today some co-channels, most likely here SER (Canary Islands and Spain) with 25, 50 and 10 kW.
- 1215 **UNITED KINGDOM** 10 transmitters of 4 watts to 62.5 kW Absolute Radio. Jan 3 0503 – Sky news, then an ID and back to music. Very strong reception, although there is a co-channel station, presumably COPE. //fair reception on 1242 (3 stations of 0.5, 1 and 2 kW... not bad!).
- 1219.519 **UnID** Dec 30 2211 – Who is this on a 10 kHz channel, way, way off heard in our mid-afternoon in Masset. Any thoughts?
- 1251 **HUNGARY** 2 sites of 25 kW Danko Radio. Jan 3 0453 – Fair + reception with Hungarian folk tunes. Not bad at all in LSB. //1116 came out stronger (2 locations of 5 and 15 kW only).
- 1278 **IRAN** Kermanshan 200 kW IRIB Radio Kermanshan. Dec 29 1807 – I'm presuming this to be an Iranian station. I'll double check at the BoH. Female announcer and pleasant background music. Faded down at 1810. 3 carriers noted, all similar strength: 1277.997, 1278.001 and 1278.008. Came back a couple of minutes later. The dominant station is now either 1278.001 or 1278.007.
- 1305 **SPAIN** 4 sites of 10 and 25 kW RNE Radio 5. Dec 28 0144 – I'm like a child in a candy shop. The TAs are coming in like I haven't heard for many years (in fact deep in the last solar minimum). Carriers everywhere, and coming in with audio for stretches lasting seconds to minutes. Never quite armchair, but very decent nonetheless. I'm also having fun switching between the North 500' mini-Beverage (which is terminated in the ocean to my north), and the large diameter ALA 100LN, also N/S orientation, with each surpassing the other depending on the frequency. A lot of fun this hobby can be!!!
- +Jan 3 0443 – Very good reception of my 'first' Spanish station. Honestly, there just hasn't been a lot of them audible during this trip to Masset. A pleasant change!
- 1314 **ROMANIA** 3 transmitters of 50, 25 and 15 kW SRR Antena Satelor or SRR Radio Oltenia-Craiova. Jan 3 0440 – 3 stations listed here from Romania. 2 are SRR Antena Satelor, and the other is SRR Radio Oltenia-Craiova. Romanian folk music fair/good reception.
- 1341 **NORTHERN IRELAND** Lisnagarvey 162 kW BBC Radio Ulster. Jan 3 0436 – BBC Radio 5 Live ID Good reception. Report re Iraq.
- 1368 **ISLE OF MAN** Douglas/Foxdale 20 kW Manx Radio. Jan 2 0350 – Despite MWList stating they're on from 0500 to 0100, I'm hearing modern English music, and an English ad before fading down to nothing. I can't imagine this being the Seychelles or South Africa (listed as inactive). Follows the style of Manx Radio when I've heard them in PEI. Some very deep fades into oblivion followed by a signal rise into the intelligible range.
- 1386 **LITHUANIA** Radio Baltic Waves International Viesintos 75 kW NHK World. Jan 2 0347 – Russian service from NHK, with Flight of the Valkyrie playing. At times, very good reception. Splatter from 1380, so USB works flawlessly. Very strong reception when rechecked at 0356! Pretty close to armchair reception. Lithuania really puts out, thanks to their relatively new Canadian Nautel transmitter! Mostly all music. At 0359, mentioned the NHK orchestra, then right into Polish Radio in Belorussian. I've mentioned that Belorussian is about the closest Slavic language related to Ukrainian, so I follow it pretty easily, followed by Polish. Many words in common. I was expecting the transmitter to cut, but at 0500, they IDed as Polish Radio in English, then into UKRAINIAN! A joint Polish Radio and civic radio organization in Ukraine called Hromadske Radio. Very interesting, indeed!!! 30 minute program, and transmitter cut at 0530.
- LITHUANIA** Viesintos 75 kW Japan (non). Dec 29 1756 – It's doing it again this morning. We're still full of Asian signals (China, Japan, Korea, as well as the Alaskans), but also into Europe! Good reception in Russian with NHK World listed. New Year's wishes. NHK must have called a listener. Darn, as usual, things start to fade towards the ToH. Hold on!!! The caller went on to 1759:30, then a quick NHK ID. Then right into, 'Govorit Radio Svoboda' a few seconds past the TOH. Top story (I think) is about a prisoner exchange in the Donbas.
- LITHUANIA** Viesintos 75 kW Polish Radio. Jan 3 0424 – via Radio Baltic Waves International. Strong again tonight with Belorussian programming. I inadvertently reported on-line that it was Radio Svoboda. No, it's Polish Radio! Close to armchair. Talk about Polish Air Force wishing to purchase the F-35 for their forces. 'Beloruska sluzhba Polski Radyo' at the BOH.
- 1395 **ARMENIA** Gavarr 500 kW Iran International TV. Dec 31 0136 – Good reception of presumed program, and seems //6270 at the same time. Better on both my NW BoG and ALA 100 loop, but heard on all 3. Better than SW // of course, it faded down until 0200:30. Almost certainly //SW, as the voices are identical. Interesting that all 3 of my antennas are performing well here! It's clear that some of the interviewees are not native speakers, as they sound like a foreign language with an English accent, despite me not understanding presumed Farsi!
- 1395 **IRAN** Hajiabad 50 kW IRIB Radio Khalij-e. Dec 29 1831 – Presumptive logging at fair level. Several mentions of 'Iran'. Very upbeat. Although, this could also be Iran International from Armenia with 500 kW. I'm leaning towards this as being more probable.
- 1413 **PRIDNISTROVYE** Grigoriopol 500 kW Vesti FM. Jan 3 0420 – Just out of nowhere, suddenly very strong. Significant splatter for us on the coast from CFTE Vancouver with 50 kW. Ouch! Usual Russian programming.
- OMAN** A'Seela 800 kW BBC World Service. Dec 29 1954 – Dominating the channel is Oman with an ID at 2006. Vesti dominates at times, as it is right now at 2007. What fun to have Transdnistria battling it out with Oman!
- TRANSDNISTRIA** Grigoriopol 500 kW Vesti FM. Dec 29 1835 – Good reception in Russian on both the North Beverage and my big ALA 100 LN aimed N/S. And it's only 10:40 AM local!!!
- 1422 **ALGERIA** Ouled Fayet 10 kW Radio Coran. Jan 3 0418 – Fair reception with Quranic recitations, with co-channel Radio Romania Actualitati. Sometimes one dominates, then the other. Romania more usually is the dominant station here (10 kW from Ramnicu Valcea). Fun to watch the switch back and forth!
- JAPAN** Yokohama 50 kW directional JORF. Jan 2 1646 – What's this? It's American Top 40 radio show. Very strong. This has to be JORF Yokohama. I've never heard this before, though. Most unusual for a Japanese station. Whitney Houston is #2. OK at 1650, switched to Japanese, so perhaps a documentary about Casey Cassum. Back to English at 1651:30 with George Michael. An interesting twist, for sure! Faded down at 1653 revealing another Asian. Numerous Chinese on channel, so one of those. By 1654, JORF is back. Note my LSR is coming up shortly at 1707 (9:07 AM local).
- 1431 **DJIBOUTI** 600 kW VoA. Dec 29 1838 – Clearly in French which indicates it's the VOA from Djibouti. Fair at times. Nice to hear an African station on MW. More to come, I hope!
- +Dec 30 2204 – Clearly in English just after the ToH before fading down. Seems the bands are starting to build again, after a break of a couple of hours. It's now just after 2:00 PM local in Masset. Better than the Perseus Mestor program to record again. There's the VoA back at fair/good strength now again at 2206.
- 1449 **SAUDI ARABIA** Jeddah 200 kW SBA Radio Riyadh. Dec 29 1847 – Not many stations here would carry Arabic music. Fair at times. Either same station or another with some talk by OM, but couldn't identify the language. Presumptive log. Measuring on 1449.002 with a weaker carrier on 1448.995.
- 1467 **FRANCE** Roumoules 1000 kW TWR Europe. Dec 27 2245 – Just home from town at 2:45 PM, and note TAs already in at a decent level 1467 showed who they were with a TWR IS at 2245 and sign-off (Arabic). Lots of other carriers, too. Just 9 kHz below, 1458 is coming in nicely with pop music, likely Lyca Radio. Almost as strong as 1460 domestic. Best heard on my large ALA 100LN (about 60' x 40') aimed N/S. Better than the 500' mini-Beverage, also N/S. Will check it out to ensure it's working properly! Note that 1467 has a big wobbly carrier on frequency as well. Seemed on the high side, but now looking, it's almost 200 Hz low.
- 1476 **UNITED ARAB EMERITS** Ras al-Khaimah 100 kW Radio Asia. Dec 29 1848 – Subcontinental music at fair level but with a het caused by a carrier on 1476.262. Who's responsible for the carrier on the high side? Radio Asia fades down to nothing, but then returns at a decent level. Not nearly as strong as 1539 and 1548, though!
- 1485 **LATVIA** Riga 0.3 kW Radio Merkus. Dec 30 1742 – I'm really struggling with the language. Good to very good at times, and only heard on the North Beverage and N/S ALA (weaker). A talk between 2 women. Language sounds Scandinavian/northern European to my ears. Footloose song at 1744. Very good at this stage. Wow!!! Then faded down to almost nothing. Footloose comes back at 1745:30 weakly with some talk. Back at good level, and almost certainly heard, 'Latvia'. 'Thank you so much' at 1751. BINGO! At 1757, there's an absolutely clear, 'Merkus AM' and back into modern music virtually armchair level, and this is from a 300 watt transmitter. Can I say, 'Wow!!!?' At 1800, another Merkus ID and into news. All Latvian. So the big question is who was it that I heard yesterday? Mi Amigo via Latvia? BBC?
- UnID**. Dec 29 1904 – Not sure who this is. Good reception with an English language oldies. 'Our love is stronger than the universe'. Right on channel, with 2 other carriers present, but not heard. 1485.010 and 1484.997. Definitely a female DJ just before 1908. British accented. There are 2 UK stations listed here but only 2 and 0.79 kW (both BBC). I'm intrigued by the possibility of Radio Merkurs from Latvia with only 0.3 kW, but lists Radio Mi Amigo 19 to 23 on Sundays. That would be neat, and frankly, more like the style compared to the BBC! Of course, they're a tone of Dutch low power stations on channel. I wish! Continues at fair level when periodically rechecking. At 1935, popular song, 'I'll give you my heart'.

- 1494 **MOLDOVA** 2 sites 20 and 30 kW Radio Moldova Actualitati. Dec 30 1810 – Believe it or not, I just caught an armchair copy of their ID. Beautiful! Then into folk music. Can it get any better than this??? After 10:00 AM local!
- 1503 **EGYPT** Al-Arish 25 kW ERTU Al-Quran. Dec 30 1817 – Don't know who else this could be, with Quranic sounding chants. Faded down leaving another station. Not sure. Then another, but that's NHK1 from Sapporo. The NHK1 network often plays exotic music during their late nights. I've been fooled more than once! Egypt fades up to good level at times.
+Dec 31 0038 – Good reception with Quranic recitations before fading down, but back again within a minute. No one else on channel matches!
- 1512t **AUSTRALIA** Newcastle 10 kW 2RN ABC National. Dec 28 1941 – A tentative logging. English heard here, and almost noon local! Weak, but there. The only other possibility would be a Filipino, on late, but wait, faded up at 1945 and it wasn't English, or any East Asian language, but must be either Iran or Saudi Arabia. Jeddah is listed with 1000 kW, but I think Quran programming. Doesn't sound like that, so maybe the Iranian, IRIB Radio Arkabil with 50 kW. Yes must be, as I can hear a //1269 weakly with instrumental music at 1948. By far the best on my big ALA 100LN aimed N/S. There was a big storm overnight, so I'll need to check my other wires! Rising to almost good level at 1950.
IRAN Ardabil 50 kW IRIB. Dec 30 1709 – Almost certainly Iran at good/very good level. Presumed Farsi talk. Does fade down, though.
- t **SAUDI ARABIA** Jeddah 1000 kW SBA Al-Quran. Dec 30 1823 – Sounds very Arabic to me with slow rendition of speech by a deep voiced male. Co-channel is another. I listened to the BoH for the classic Iranian 'bong', but nothing heard there. So, is this Saudi Arabia? I'm still leaning more to Iran here, as there's a female speaking at 1832.
- 1521 **CHINA** Dazhou 1 kW CNR1. Jan 1 1747 – Could this really be from a flea powered 1 kW transmitter, as it's the only listed CNR1 outlet. A more likely explanation may be a New Year's relay from stronger senders. Other mornings I was hearing solid Russian from CRI here. A smudge of transmitters visible on the waterfall, making it a bit of a 'murky' channel. Carriers on 1520.998, 1520.999 (several there, that the Perseus can't increase resolution further), and 1521.000. Was very good at 1750, but sunk into the mud by 1754.
CHINA Hutubi 600 kW CRI. Dec 29 1925 – I was expecting Saudi Arabia, but instead I hear Russia from China. The new PAL isn't clear that CRI broadcasts at this time in Russian, but Aoki clearly states 1300 to 2000 to Central Asia with 600 kW in Russian from Hutubi-Xinjiang (while others just state Urumqi), which qualifies for a central Asian, I suppose! Fair reception.
+Dec 31 1740 – Good reception for a time in Russian. This morning is NOT a repeat of the superb conditions of yesterday morning. The TAs (trans Polar) are present, but one has to work hard at extracting audio! Perhaps it's all for the best, as the excitement of yesterday morning is tiring!
- 1530 **JAPAN Unid.** Jan 1 1759 – I don't pay enough attention to the 9 kHz channels, shared with the 10 kHz channels. 1530 was completely Japan, of which there are 6 transmitters) until right at the ToH when a Chinese opera singling dominated for just about 15 seconds, and then became co-channel and equal to the Japanese station. Presumably, Jilin RGD. 3 + 1 time pip was likely the Japanese, but not definitely.
- 1539 **UNITED ARAB EMIRITS** Abu Dhabi 200 kW Pravasi Bharathi, Dec 28 1957 – Excellent level, almost, with Subcontinental music. As I type this, briefly faded down, but back again at nice level. Sounds Hindi. Best on my big ALA N/S antenna. Mentioned '1539 AM' at 1959. According to MW list, supposed to switch to DRM either at 2000 or 2010 and down to 50 kW. A phone number (in English) is given as well. An Ad in English, courier and cargo. Number one courier. Abu Dhabi mentioned. Excellent reception! I'm blown away. This is exactly like conditions were during our last solar minimum, and not since. Enjoy it while we can. It happened: A transition with an overlap between FE/Asia propagation to central Asia, and I'm sure Europe in there too, without a gap! A rarity for certain!!! Wow, another weird one. At 2005, on came a Chinese station, co-channel. This is wild! Not sure who that might be, as there's CNR1, CNR13, and Qinghai RGD listed. Doesn't sound Uighur. One moment Pravasi Bharathi dominates, and another moment it's the Chinese! No sign of DRM at 2012, and again overpowering any Chinese station, as I'd expect with more and more daylight between here and east Asia.
+Dec 30 1605 – Once again trans-Polar paths are open with UAE dominating the channel well before our local dawn. Lots of mentions of, 'Pravasi'. Good to very good. Very much like Canada's Indian stations, with lots of English in the ads, and when phone numbers are mentioned.
- 1548 **KUWAIT** Al-Kuwayt 600 kW Radio Sawa. Dec 29 1657 – Noted over the Pole conditions again this morning with both 1548 and 1539 (UAE) producing at times excellent audio. On 1548, Arabic talk up to just before 1659, then dead air or lower modulated talk. Of course, the ToH means conditions deteriorate, only to improve 30 seconds later!
+Dec 30 1615 – The dominant station here once again this morning, but only on the North Beverage. Lots of 1550 splatter, though.
- TRANSNISTRIA** Grigoriopol 500 kW TWR Europe. Dec 30 1900 – I was watching this channel for the last 20 minutes. Up to the ToH, presumed Radio Sawa from Kuwait dominated (and it's still there under TWR). Fair amount of 1550 splatter. TWR signs on with Bulgarian at this time. Good at times. I measured various carriers, but couldn't be certain of TWR's signing on. The strongest carrier is on 1548.000, while there are others on 1547.996, 1547.995, and 2 outliers which are very weak on 1547.942 and 1548.018.
- 1557 **IRAN** Zabol 50 kW IRIB. Dec 31 0031 – Very good at times, but of course faded down at the BOH. No one else on channel, so presumptive it's them!
- 1566 **BENIN** Parakou 100 kW TWR Africa. Jan 2 0407 – An interesting situation on this frequency. On the ALA 100LN aimed N/S I'm hearing an African accented speaker, so likely TWR, while on the North Beverage, it's sounding more like Iran. Not that common to hear Benin in the deep winter, if that's who they are! Conditions seemed to have really been boosted since 0400. 1566 is very listenable now for the last few minutes! All on the ALA 100! Listed in Hausa until 0430, then Igbo. Briefly came up very nicely at the BoH which sounded very much like heavily accented African English, but likely Igbo. No IS at the BoH as I had hoped. It's recording in the background as I do some work. Carrier still seems strong, but either OC or someone else in the background. Let's see if something comes up at the ToH. Came up at 0458 with African talk, then very distinctive Xylophone music. English for sure at 0459, African accented.
- SOUTH KOREA** Jeju 250 kW HLAZ. Dec 27 2005 – Must be the deep of winter. Superb reception continues from HLAZ Korean programming. That's after noon local! Still showing S9 or better. 1557, presumed Taiwan also still coming in well. Full ID at 2100 with call letters, and seemingly lots of mentions of FM. Strident vocal choral, and into Korean preacher. Still very strong, but by 2120 really began fading (1:20 PM local), although still just audible with singing at 2158, almost 2:00 PM local!
+Dec 28 1632 – After Chinese finishes at 1630, there's some dead air, and antenna switching for the Russian program. It ID's as Radio Teos. Today there was a letterbox show, and one listener from Novosibirsk asks about the history of TWR. They say that it stated in Tangier, initially in Spanish. When Morocco became independent, they nationalized the transmitter, and TWR moved to Monte Carlo. Immediately following just after 1700, there's the following: 'Welcome to the Voice of America in Korean'.
+Dec 31 2200 – An interesting exercise, and only possible in the deep of winter! I left the recorder going on 1566 from 1907 (11:07 AM local) until 2200 (2:00 PM local) and noted that I could hear HLAZ throughout. Checking on LSR, it happened to occur approximately the latter time, after which it was in broad daylight. So, despite our location being in daylight (albeit, low angle sun, only), MW continued to propagate from Asia. Interesting!
- 1575 **ITALY** Genova 30 kW RAI Radio 1. Jan 2 0513 – Excellent reception when I checked this now, with Italian talk. You can't miss them! 'Italia' etc. Strong signal and excellent modulation.
JAPAN Misawa 1 kW AFN. Dec 31 1755 – First morning that I noticed that AFN dominated. Initially, I could clearly hear 2 AFN transmitters, but now only the one, and it's almost always Misawa. Good reception. Into ABC news at 1800. Strong when rechecked at 1817 with PSAs, 'What's on the Home Front?'. Then back to network programming for, 'America's best'.
THAILAND Ban Phachi 1000 kW VoA (and co-channel). Dec 30 1619 – Mostly VoA is dominating with Bengali programming, but with AFN a strong second with the usual music programming. Both are strong and heard on all 3 of my antennas, but best on the NW BoG (over N Beverage, and the N/S ALA 100).
+Dec 31 2200 – Conditions are total opposite of yesterday, where there were European (and central Asian) signals everywhere. Right now, the band is very noisy and mostly absent of 9 kHz signals. Poor to fair on 1575, which ended up being VoA (with the English canned ID at 2158. Continues past 2200 with presumed Khmer listed. PAL didn't mention before 2200, though.
- Unid** Dec 31 0300 – Big OC for the past 30 min. I thought something might sign on at 0300, but no joy. Wonder who this might be? Does the VoA Thailand site leave the transmitter on? Not scheduled until 1030, it seems. Northerly beam on the antenna. Best with the N Beverage and N/S ALA. Worse on the NW BoG. Just before 0330, there's Quranic recitations. Low modulation, but there. Wouldn't that be great if it was Afghanistan. A station, RTA Radio Kunar is in Asadabad, in the country's eastern region. LSR is at about 0223, so just over an hour ago. Let's see if it continues to fade. Clearly, it's not Thailand, which wouldn't make sense, as it's in broad daylight there. More likely possibilities are Egypt, but scheduled 0415 to 2200 (10 kW Youth and Sports Radio) and most likely, Iran with 10 kW.
- 1593t **KUWAIT** Al-Kuwayt 150 kW VoA. Dec 30 1627 – An interesting channel with another station dominating the channel with western style music and totally over CNR1 which is not audible at all. At first I thought it was an English speaker, but not so sure. No, it's not English. I'm suspecting this is VoA Kuwait in listed Farsi. Playing, 'All night long' at 1633.
ROMANIA Unid 4 sites. Dec 31 0357 – I'm assuming that I'm listening to the Romanian National Anthem in progress as I tuned away from 1575 for a few moments. Good, besides a lot of splatter. 4 different stations are listed with 10 and 15 kW. SRR Radio Cluj signs on at 0350, Ion Corvin is 24 hours with Radio Romania Actualitati, Radio Targu signs on at 0345, and another site of Radio Cluj also signs on at 0350. Do all Romanian stations play the anthem at 0300? Faded up to strong level at 0402, with mentions of Romania.
+Jan 3 0355 – Loud 1 kHz tone up to 0355, and then right into the Romanian national anthem choral version. Good/very good reception. Of course, started to fade down. Here's the issue: there are 4 stations listed from Romania. 2 are listed signing on at 0350, 1 at 0345 and 1 is 24 hours. How do we know which one this is. They are powered at 15 kW (3) and 1 at 10 kW. After the ToH, co-channel likely Bretagne 5 with 10/5 kW. Once again for 2 nights running, the ALA 100 is the best antenna S/N over the N Beverage. During the day, it was a 'dog'!

- 1656 **AUSTRALIA UnID.** Dec 30 1635 – Even the X-band is getting some action with very weak audio. Too weak to be sure of anything, but there are 3 listed stations: Hindi, Christian and Greek. Measuring pretty much exactly on channel.
- 1663.5 **JAPAN** Nagoya or Tokyo Nagoya Harbor Radar or Tokyo Martis. Dec 29 1706 – Almost good level noted here with Japanese woman presumably giving weather. I note that the latest PAL no longer mentions these stations. An oversight? I'd hope to see them listed again! Oops, spoke too soon. They're not in the master list, but are in the country list. Sorry! Note, rather than 1664, they're actually on 1663.5!
- 1663.5 **JAPAN** Tokyo ?50 watts Tokyo Martis. Jan 3 1640 – Good reception with weather information. Lots of mentions of Tokyo. I have to notch out 1665 to make it readable. Off a few seconds after 1643. A weak Martis came on at 1645. Again a woman. 3 are listed at this time for Kurushima, Osaka and Isewan Martis'.
- 1665 **AUSTRALIA** Brisbane 0.4 kW Radio Rhythm. Dec 30 1641 – Fair audio with Hindi music, making this the Brisbane transmitter over the other 2 listed (Christian and Greek). Measuring about 2 Hz high. There's another carrier visible on 1665.012. Checking further, I'm able to see all 3 with maximal zoom. 1665.000 (Radio Rhythm), then 1665.005 (the weakest) and 1665.012.
- 1695 **UnID** ?Greek Pirate. Dec 30 1650 – Who on earth could this be? Playing music, which sounds possibly Greek folk music, sometimes at pretty decent level, but then dropping down into the mud, only to return. My experience in PEI with Greek pirates showed the same pattern. I'd love to know if anyone else is hearing this! I wish I had internet to check various remote SDR sites! Measuring 1694.984 if that's useful. Still going at 1721 with audible signal. Same style of music.
- 1701.070 **AUSTRALIA** Radio Brisvaani. Dec 30 1653 – Fair audio this morning with their characteristic off channel frequency. Hindi ads noted. Also can see (and hear the het) from 1701.005.
- 2598 **CANADA** Placentia NL VCP Placentia NL. Dec 30 0747 – Listed from 0737 to 0805 in English. Only heard on my N/S ALA 100LN at mostly good level. Thanks, Glenn for the reminder! Computer generated YL at a slow rate, so easy to follow. VOJ Port aux Basques came on at 0807. Same fair strength.
- 2749 **CANADA** Sydney NS VCO Sydney Radio. Dec 30 0752 – Much stronger reception with the same female computer generated voice. Weather forecasts. Began in English, then switched to French and still going at 0808 at good level.
- 3215 **USA** Manchester, TN and Nashville TN WWRB and WWCN. Dec 29 0159 – I was listening to WWCN on 6115 when they advised to move to 3215. Tuning down, there's WWRB advising listeners to change to 3185 and for a few seconds, both stations were co-channel. Interesting.
- 3250 **INDONESIA** Palangkaraya 10 kW/ND Voice of Indonesia. Dec 28 1500 – Just music until the ToH, then into Mandarin programming with a few mentions of Voice of Indonesia. Strong signal, but with a bit of 3320 splatter from Korea.
- 3325 **INDONESIA** Palangkaraya 10 kW/ND RRI. Dec 29 1647 – When I checked at 1500, there was virtually no modulation, but rechecking now shows good modulation in listed Arabic, but doesn't sound very Arabic to me. Perhaps heavily accented?? Good reception despite splatter from Korea 5 kHz low. With an empty band, why not move???
- 3955 **UNITED KINGDOM** Wooferton 100 kW/114 deg BBCWS. Jan 1 0602 – An almost copy of DRM from the UK, though beamed to Europe. 2/3 bars are green, and the screen states: BBC World Service English 16.92 kbps EEP AAC+ Mono Current Affairs ID:E1C238 2 channels. Channel One is the audio at 16.92 kbps + AF5 (what is that?). Channel 2 is BBC WS News Data Journaline at 0.54 kbps. But nothing is coming through on that. I actually received a few seconds of audio at 0613. A first for me, I believe from the UK! Checking again on 2 January 2020, and I'm able to receive whole sentences of audio, and when there's audio, the Journaline Receiving status turns green. Only on the North Beverage. Absolutely nothing on the other 2 antennas (recall the ALA tonight...UTC 2Jan was the star MW performer to Europe!)
- 3965 **FRANCE** Issoudun 1 or 10 kW/ND Radio France International. Dec 31 0054 – Nowhere close to decoding, but I can see the faint wide DRM band centered here. For 1 (or 10 kW listed elsewhere), not bad!
+Jan 3 0133 – Although too weak to decode, I'm still impressed with receiving anything from Issoudun with such low power. Usually 1 and occasionally 2, and even a tiny amount of audio decoded. 14.56 kbps RFI French. Not too shabby!
- 4020 **RUSSIA** Unknown Air-horn Channel Marker. Jan 1 0040 – Things are pretty quiet here tonight on the bands, so scratching around a bit, I noted this bizarre sounding marker. Intermittent buzzer or horn sound. Good level. Another Russian mystery, apparently. At the same time, the famous Buzzer on 4625 is very loud.
- 4045 **USA** Pirate WDDR. Jan 1 0130 – Drunken DJ Radio was one of a small handful of pirate ops this evening. Far fewer compared to last year. Generally well heard off the north west coast, and seemed to improve during the evening. He started on 6935U earlier in the evening and then switched to the 4 MHz band with better conditions. Plenty of SSTV signals transmitted, with the final one being a Wolverine and a 'Wolverine Radio' caption on the bottom. I'm sure he had quite an audience tonight!
- 4075 **USA** Pirate Mix Radio International. Jan 2 0127 – A tough go, but he's there starting at 0121 with song, 'It's all right now, baby it's all right now...' Poor to fair level. Is this an American or Europirate? Best heard on the North Beverage. Continued to monitor until seemingly off at 0204. Something, something radio heard at 0131. ID perhaps. HF Underground says this is Mix Radio International. I switched antennas at 0132 and much stronger. Not my genre of music, to be honest. At 0153 mentioned underwhelming conditions, and I think the ID was 'Cool AM Radio' and gave address at CoolAMRadio@hotmail.com, although there might have been another vowel between Cool and Radio. By 0154, reception was good. At 0203, 'Fight for free and independent... radio. xx radio@hotmail.com'. Then something about Washington DC now leaving the air. Checking HFUnderground states that it's a relay of Cool AM Radio via Mix Radio International. Reception was excellent in PA, so likely from near the ECNA. Explains things now. HFU is a very valuable resource!
- 4331 **ISRAEL** Yavne 4XZ Israeli Navy Haifa. Jan 2 0324 – Good copy with repeated: 'VUV DE 4XZ 4XZ' and repeated. //6607 is weaker, and not decoding 100% like on 4331. 2680 was just barely audible. Possible some code in there, but they also may be errors on the part of Fldigi.
- 4625 **RUSSIA** Naro-Fominsk UVB 76 The Buzzer. Dec 28 0036 – Clearly heard only on my big ALA 100 LN despite the CODAR over this part of the band. Clearly propagation is very nice. MW was wide open to Europe and Central Asia from mid-afternoon local time onwards. Very nice! Now here's an interesting observation. Heard on Dec 28th at fair level at 1507! Wasn't expecting that!
+Dec 29 1551 – Despite the crazy amount of continuous OTH radar contamination, UVB 76, 'The Buzzer' is well heard in our local mornings, on the North Beverage, from a site near Moscow. Listened again at 2036 and he's quite strong, but there's what sounds like an echo about a second later. Wonder what that signifies? Never hear that before.
- 4760 **SWAZILAND** Manzini 50 kW/003 deg TWR Africa. Jan 2 0333 – Good reception on the North Beverage in listed Shona. I'm not hearing very much on the 60 m band that matches TWR for signal strength.
- 4765 **TAJIKISTAN** Dushanbe 100 kW/ND Tajik Radio 1. Dec 27 0142 – A very nice signal with modern vocals. I suspected they'd come in, as Bhutan was propagating quite well earlier. Grayline in Dushanbe is at 0240, so I'm expecting improvement, and hoping to hear their Russian programming starting at 0300.
- 4850 **CHINA** Urumqi 100 kW/ND PBS Xinjiang CNR17. Dec 29 0030 – Excellent reception with ID several times at 0030 and into presumed news. In Kazakh. Heard best on my North Beverage (note after the big storm overnight, I found a couple of big dead branches had fallen on the Beverage, bringing it to the ground, but not breaking it. Today, I checked the continuity... all good, and laid a ground radial (the same I used to check the continuity) along most of the length of the Beverage. Working better than ever!
- 4885 **SOUTH KOREA** Suwon-Osan 10 kW/ND Echo of Hope. Jan 1 1641 – Perhaps a present from the North, but absolutely armchair copy with no hint of jamming, which I thought would be the case. Korean, but with English religious hymn at 1643. Hint of OTH radar which extends basically from 4750 to 4885. Still going strong at 1829, and //to jammed 5995.
+Jan 3 1553 – Armchair reception, as usual, with an English lesson. 'I have to wire some money....' My last hour or two before winding down this fantastic DX week! No jamming at all on this frequency. //5995 is heavily jammed!
- 4905 **TIBET** Lhasa 50 kW/ND PBS Xizang. Dec 28 1633 – English program at very good level with a very understandable male presenter, then into folk vocal. //4920 is good with co-channel. 6025 not heard due to CNR1 DRM on 6030. ID is now, 'China, Tibet in Lhasa'. www.newTibet.com, although Holy Tibet also mentioned at 1639. 6110 is fair. Listed 6130 not heard. 6200 very good (100 kW/85 deg). 7255 good level, with a weak co-channel. 7385 may possibly be there under Chinese co-channel. Overall, 4905 wins out! At 1645 possibly the same woman that I've heard in the past comes on, with a thicker accent that's a bit harder to follow. Discussion of a new railway put into service in 2014. For the next while, went on and on about the value of the railway to the people of Tibet. Address given at 1655 with 'Tibet, China'. End of program at 1656. Same sign off announcement was repeated again. Into music at 1656:45. It's been a long while since I've seen this program reported.
- 4920 **INDIA** Chennai (Madras) 50 kW/ND AIR Chennai. Jan 2 1600 – Initially I was listening for Holy Tibet, but found the Indian to be often dominating. Seemingly off channel on the low side (but not measured). Oops, it's Tibet that's off channel, on measured 4919.959. English news came on at 1730 to 1735, and then presumed Hindi until signing off at 1740. Nothing special about the sign-off. Transmitter cut at exactly 1740. Fair/good reception overall, despite Tibet.
+Jan 2 1632 – As compared to a few days ago, Chennai is dominating the channel with Hindi music, over Holy Tibet from Lhasa. English is again scheduled at 1730, so I'll have to check.

- 5000 **CHINA** Pucheng Xian 20 kW BPM Xian. Dec 27 1729 – Louder than WWVH (and nothing from WWV) with loud CW for BPM, then slow voice announcing BPM several times to 1730, but then a different type of time pip (wonder whether it's something digital?). //2500 is much weaker, but same buzzing time pip. Nothing heard on WWV besides WWVH and WWV.
- 5006 **JAPAN** Chofu Campus Tokyo 0.2 kW/ND JG2XA. Dec 27 1705 – I'm guessing that this is JG2XA. Mostly just a strong OC, and identical on 8006. Tone on each minute. Who else could this be?
- 5009.923 **MADAGASCAR** Ambohidrano 100 kW/ND Radio Madagasikara. Dec 27 1752 – I'm suspecting it's them. Reasonably strong carrier, but very weak modulation with mostly woman talking. Music at 1755. Again, not south Asian sounding either. Doesn't sound like AIR.
- 5009.924 **MADAGASCAR** Antananarivo 100 kW/ND Radio Madagasikara. Dec 29 1535 – Presumed them on their usual signature off-channel with hints of audio. All very low level with music. Too weak to make much out of the transmission. The (presumed) Chinese OTH radar is making a huge mess of the 60 m tropical band this morning. Except for a few narrow 'protected' regions, the OTH radar covers 4580 to 4650, 4740 to 4890, 4940 to 4995, and 5015 to 5090 approximately, and much below and above this! What a major nuisance!
- 5020 **SOLOMON ISLANDS** Honiara 10 kW/ND SIBC. Jan 1 1647 – Clearly on late this morning (no PNGs that I could see did the same) with rap music at 1648. Fair to almost good level. Signal continued to improve and at good level by 1738, well past LSR. It's interesting to see which antenna works best to receive SIBC. Sometimes it's the NW BoG. Other times, and at present, it's the N Beverage (off the back end, I assume), and other times it's been the big ALA 100LN aimed N/S. Within 1 Hz of the nominal (low). When did they get a new transmitter? They used to always be 100 Hz low. Still showing on the waterfall at 1813, but no more audio recoverable.
- 5040 **INDIA** Jeypore 50 kW/ND AIR Jeypore. Jan 1 1650 – Generally the 60 m AIR stations have not been heard well at all this time on Haida Gwaii. Perhaps the best would be AIR Jeypore in the clear and with clearly Indian sounding music. Fair at best. Improving, though after our LSR and into English news at 1730 (sounds like it was already in progress). Finished at 1735 without announcement, and into listed Hindi.
+Jan 2 1730 – Fair to good reception with English news from Delhi. As opposed to 4920 AIR Chennai, they did not start at 1730, but at 1730:30, so the news was already in progress. Marred by OTH radar, though not very strong. Carrier reads 3 Hz high. 'And that's the end of this English news bulletin'. No ID, but went into listed Hindi.
- VANUATU** Port Vila 2.5 kW/ND Radio Vanuatu. Dec 28 0707 – Assuming it's them with about the same signal strength as 7260. Too weak to make out much content, though. A woman speaking. Right on frequency, too. Time will tell whether they'll improve!
+Dec 28 0802 – I recorded 5040 overnight last night, and, although the signal is very weak, the female announcer sounds identical to what's playing on 7260 now (after 0600). Signal peaks around 0800, which is approximately the LSS in Vanuatu (closer to about 0730), and slowly deteriorates from there. Fair at best. Next night, Dec 29th seems better. Almost readable in English and/or Bislama. Interesting that the best antenna for Vanuatu tonight is the North Beverage. Perhaps over the shoulder to the south, rather than the NW Beverage.
+Jan 1 0750 – I recorded 5040 overnight and noted it was much stronger than previous nights. In fact, it seemed to continue building until abruptly signing off at 1100:16 without any announcement in the middle of a musical piece. Fair overall, with occasional almost good levels. Pretty poor as I review the mp3 until just before 1000, which is well after LSS.
- 5045 **AUSTRALIA** Gladstone Unique Radio. Jan 1 1653 – A highly tentative log. I don't see anything on the waterfall, but when tuned to USB can just make out VERY faint music. Almost at the threshold of 'wishing to hear'. Will bear more monitoring! Do we know the power? Talk noted just before 1655. Still there when rechecked at 1726, and stronger, but still threshold only.



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

Deadlines: 1/11, 1/18, 1/25, 2/1, 2/8, 2/15, 2/22 and 3/7 – Anniversary issue

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

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

CANADA. 223 kHz, December 31 at 0703, ND beacon YYW and dash, 1000 watts from Armstrong, Ontario.

USA. 359 kHz, January 4 at 0714, ND beacon SDR, 25 watts from Snyder TX, which is just NW of Sweetwater on the way to Lubbock.

PUERTO RICO. 391 kHz, January 2 at 0714, ND beacon DDP, a new one, whence? Surprised to find it's San Juan/Dorado, 1000 watts; my first from Puerto Rico, and probably most distant at 3676 km = 2284 st mi. And I was tuned to 389-USB.

USA. 395 kHz, December 30 at 1241, ND beacon CA, which is 25 watts in Newton/Harvs, Kansas; mixing with ULS, also 25 watts, from Ulysses KS; they are 221 miles apart, maybe enough considering the power.

CANADA. 406 kHz, December 31 at 0707, ND beacon YLJ and dash, 40 watts from Meadow Lake, Saskatchewan.

USA. 420 kHz, December 30 at 1244, ND beacon FQ, which is 25 watts in Fairmont, Minnesota. I was tuned to 418-USB. BTW, on the LW/MW band, USA NDBs range from 198 to 429 kHz; Canadians 195 to 414; so any heard higher in the 400s would have to be from further world-parts.

USA. 1020, January 4 at 0339, nulling KOKP I hear Jim Bohannon; which 1020 is he on? Station finder at <http://www.jimbohannonshow.com/station-finder/> leads off with KVNT Anchorage AK, but not starting until 7 pm = 04; and only one other, far more likely here, KDKA Pittsburgh PA, from 10 pm = 03. He has quite a roster, but still not a single station in OK.

USA [and non]. 1090, January 3 at 0704, dead air from KAAV Little Rock as often happens, during which I hear a Spanish infomercial without really trying, no doubt XEAU Monterrey; 0705 KAAV comes to life with gospel music. USB tuning avoids the 1089 het from UK.

USA. 1210, January 2 at 0659, PSA for Goodwill Industries in NJ and Philadelphia so WPHT though U1 50/50 kW, unusually dominating briefly over KGYN et al.; I often check around this hour whether daytimer WJNL MI still be cheating,

OKLAHOMA. 1210, January 3 at 0659, KGYN Guymon with ID as Liberal Kansas 106.3 KGYN, no mention of 1210. I see on website <http://stecklinecommunications.com/kgyn/> that 106.3 gets equal billing to 1210 but not top billing. That's really a puny translator, K292HJ, 106.3 Liberal KS, unlikely to be very audible 36 miles away back in Guymon. On the WTFDA FM Database I see no FM for KGYN in Guymon itself or anywhere else. K292HJ is slightly north of the 37th parallel so really in Kansas – like all the other Steckline properties except 1210, which is normally audible at night despite supposed to null toward WPHT which I managed to hear the night before at this time.

USA. 1540, December 30 at 2029, Mexican music and "La Ranchera" slogan, at first dominant then fading; no doubt KZMP University Park TX = The Metroplex, format replacing ESPN Deportes 3+ months ago. 1480 Vietnamese already dominating Wichita too as DFW skywave well in 3 hours before sunset,

OKLAHOMA. 1640, January 3 at 1313-1317+, KZLS "Enid" in dead air as frequently happens. Nulling it I can tell there are at least two other talk stations there.

UnID. 1710, January 3 at 0455-0505+, techno(?) music with heavy regular beat slightly more than twice per second, and another carrier; no ID or break at ToH. I often get a JBA carrier here, but first time for any audio. Widely reported further east is a pirate in Virginia? Tater Patch Radio and Radio Corsair among others.

UnID. Trans-Atlantic JBA MW carrier search, January 3 at 0439-0457 finds a lot more than usual, including low-power frequencies, two carriers beating from deeper Europe: 531, 549+(2), 558(2), 576(2), 585, 594, 603(2), 612, 621(2), 639(2), 684+, 693*, 711(2), 729(2), 738, 747, 774**(2), 783, 837(2), 846(2), 855*(2), 864, 873, 882, 891**, 909*, 936(2), 954, 963 [both sides of local 960], 981, 999, 1026(2), 1053*, 1089, 1098(2), 1107(2), 1116, 1125, 1152, 1161, 1179, 1206, 1215(2), 1296(2), 1305(2), 1314, 1323, 1413(2), 1422, 1458(2), 1521, 1539, 1566, 1575. * are the stronger ones. ** the ones with some music modulation audible, surely Spain and Algeria.

USA. WORLD OF RADIO 2015 monitoring: Confirmed here Sunday January 5 at 0440, S9+30 on WA0RCR, 1860-AM, about 19 minutes into, so started circa 0421.

COLOMBIA. 2940+, January 4 at 0232, no trace of HJNT, Radio Huellas, Cali, whose off-frequency second harmonic used to be obvious. I've been alert for it on frequent bandscans. They must have fixed it or be off the air from 1470 too. Last reported 30 Aug 2019 by Brett Saylor, PA on 2940.11. Per WRTH 2020, website is radiohuellascal.com and that links to sked: <https://www.sistemahuellasinternacional.com/show-schedule/> but it's rather strange, partly in English and Latin! I think they have not fleshed it out completely; WRTH says 1100-0500, but they have shows starting at midnight = 0500, can't tell if run all night or not. Had been Colombia's only [almost] SW station. Say, what about that new "ethnic" evangelical SW, supposed to start up last month/year in eastern Colombia?

NORTH AMERICA. Texas Radio Shortwave tells me: "TRSW will broadcast volume 1 of Cap'n's favorite rock songs from the '60s and '70s sometime around 0130C on Sunday, January 5. (That's Saturday night in Oklahoma.) The frequency will be in the range 4060 to 4085 kHz if propagation is good and 6875 to 6970 if it isn't." and invites me to try again with a detailed report for their coveted QSL.

4080-USB, January 5 at 0129, Texas Radio Shortwave found here, already music at tune-in for publicized 0130 broadcast. My reception report to pirate Texas Radio Shortwave: "Dear TSWR: Thanks for the invitation. I did catch your broadcast tonight, and here is my report for QSL. This is before I have read what anyone else may have said about it on HF Underground. Receiver: R75 Antenna: longwire 100 feet east-west, probably not ideal if you are south of me Date: January 5 Steady S9 on generous meter with preamps, very little fading, but not enough to overcome noise level making copy difficult. SINPO: 35343 I can seldom make out details of announcements. Enjoyed the music, some of it familiar to me, but I can't identify much of it by title, and I do not use apps to do that.

0129, found signal on 4080-USB and tune in, already music.

0130, sound effects and announcements

0131, Texas Radio Shortwave ID; country/bluegrass song

0136:20, segue to another tune

0138:35, segue to another at first instrumental, then vocal. "Black day in July" sounded like a refrain, maybe title, over and over there may be more segues so smooth I do not note them

0151, segue, country tune

0155, another segue

0158, brief announcements

0201, longer announcement, "free radio" promo with reverb

0202, ad for "radio communications magazine"; familiar blues tune

0215, unreadable announcement

0230, ID and "In the Mood", familiar

0248, still on

0256, ID and contact info by male and female voices, nothing further, apparently over and off

Thanks for the show. Hope the report is of use to you and let us know about future broadcasts, hopefully with better reception. 73, Glenn Hauser"
Reply a few hours later: "Ahoj Matey Glenn – Your report washed up on shore here at South Padre Island. Quartermaster compared it to ship's log and told Third Mate to send you this verification. Crew was excited to know you wrote in. Second Mate's the only crew member who can read, so he read what crew said we[re] the most complete reception report they'd ever heard. And crew's been around since the old, old days of pirate radio. Best wishes from Cap'n. Always be yourself. Unless you can be a pirate. Then always be a pirate. 73 and Arrgghh. Texas Radio Shortwave <https://www.facebook.com/texasradiosw>. Sailing to your ears from the Lone Star State" It's an Alamo QSL – and shows my location as Altus, Oklahoma; not sure where he got that, but makes it even more unique: [http://www.w4uvh.net/TRSW Alamo eQSL - Hauser.jpg](http://www.w4uvh.net/TRSW_Alamo_eQSL_-_Hauser.jpg) QSL archive: <http://www.worldofradio.com/QSL.html>. Many more logs here: <https://www.hfunderground.com/board/index.php/topic,62055.0.html>

BRAZIL. New Year's Eve in Brasil – at 0300 on 4885 Para, nominally 24h, at 0400 on 4885 Acre, at 0400 on 4875 Roraima (which is stronger than the 4885s here at 0210)

4875.02, January 1 at 0357, now I am monitoring Radio Roraima where it's almost 2020/midnight: at 0400 there is no timesignal or countdown but I can make out elements of an ID, which must be a sign-off, as into dead air which continues past 0405. If 0300 be their normal closing as in WRTH 2020, it was at least extended an hour for the occasion.

4885v, January 1 at 0406, there are still two signals on here making their characteristic double-het with a BFO.

CUBA. 5025, January 4 at 0235, Radio Rebelde is suptorted, maybe in silly baseball game? I think there is crowd noise.

5025, January 5 at 0708, Radio Rebelde is S9+40 but suptorted and splattering out to plus/minus 15 kHz.

CUBA. 5040, December 29 at 0132, RHC in Brazuguese with squeal. This semihour is supposed to be in French with squeal.

5040, Sunday December 29 at 2356, Arnie Coro lickety-split with propagation comments in Spanish, about to conclude 'En Contacto', must have started circa 2345; squealy frequency yet the only one audible, unlike on 9 or 11 MHz bands; 6060 is on by 2357 but open carrier only; 2359 current frequency announcement is woefully incomplete/incorrect in typical Soviet-style disorder: 11670, 11700, 11950, 9640, 6000 and FM. Misses the two I am really hearing! And 11950/6000 during this hour only, as I keep having to point out, are weekdays only and with separate programming, the 'Mesa Redonda' TV audio simulcast. I check again the 9s and 11s to find JBA carriers at best so maybe they be on but propped out.

CUBA. 5040, 6060 and 6145, Monday December 30 at 0726 are tonight's three English frequencies still on the air for last playback of mailbag.

AUSTRALIA. 5045-USB, a January 3 at 0945, no signal from Unique Radio during WORLD OF RADIO time for first SW broadcast anywhere. Not that I was expecting to hear this low-power affiliate, but checked since I happened to awaken during. As I said on the WOR iogroup: "We hope all our Oz members are OK despite the bushfires. Please check in here when you can. Here's one recent map of the areas affected, but not sharp boundaries: <https://www.newsweek.com/australia-wildfire-map-update-bushfires-sydney-new-south-wales-1480207#slideshow/1557316>. It looks like Gunnedah, North of Sydney and just east of 150 longitude is not far from the area, extending inland from the NSW coast. That would affect Tim Gaynor and Unique Radio. No updates about the M/W/F schedule at <https://www.uniqueradio.biz/>. How is it, Tim?" Re: [WOR] Australian Bushfires, Unique Radio "Hi Glenn, Thank you for your concern. Myself and my family are safe at present as the fires are not very close to where we are on the southern outskirts of Sydney. However, as we live in what is called the "ember zone", close to a national park, we are being vigilant and have been since before Christmas. Concerns are for those affected by the catastrophic conditions that are due today (Saturday 4 January) in parts of NSW and Victoria and numerous other fires affecting others elsewhere. 41 degrees Celsius (106 degrees Fahrenheit) expected here today, with high speed winds due this evening. Judging by the NSW Rural Fire Service website, Unique Radio is not located close to fires at present. – Regards, (Brian Powell VK2FBAJ, Sydney, Australia, WOR log)"

USA. 5085, January 5 at *0105, WTWW-2 cuts on air as I have been waiting for it, amid rock music, rather distorted but clears up a bit after a while. 0132 Ted with ham ads; by 0135, Bob Heil's theater organ program has started and by 0204 recheck still has not finished. But I am mainly monitoring Texas Radio SW during the same semihour. Last week my report was edited making it nonsensical or even the opposite of what I was attempting to convey: my propensity for respelling certain words with X, where phonetically appropriate, which are not mistake, but a somewhat humorous(?) attempt to advance the art of orthography. I really said, "Bob Heil never mentions his name or the Ozarks (but I will continue to spell it thus whenever I get a chance)." Yet it was published "corrected" as "Ozarks". 5130, at 0236 January 4 now this WBCQ is on, S9/+10 and playing AWWW, the same old one as at 0100 on 7490 when 5130 was off, or another repeat? If live it would have been at 0100.

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

AM Radio Log 40th Edition

The NRC's AM Radio Log is a source for information on AM Radio Stations in the United States and Canada. The 40th edition of the Log contains approximately 302 pages of data and cross references and 12 pages of instructions in 8-1/2" x 11" size, 3-hole punched, US loose leaf format. This publication fits nicely into a 1" three-ring binder. 10,000+ updates since last year's 39th Edition of the log! Included is a cross reference by State/Province areas. Additional reference lists include call letters of FM simulcasts with the AM Stations listing, listings of regional groups of stations in the groups section (separate section of the log) and a cross reference of those stations that are licensed to use IBOC (In Band On Channel) digital audio and a comprehensive list of FM translators that are now simulcasting with AM broadcasters.

The NRC/IRCA US Member Price is \$28.95. Non Members in the USA is \$35.95. Orders from Canada are US \$41.15 and Overseas orders are US \$52.65.

You may order the 40th edition at www.nationalradioclub.org using Pay Pal or by snail mail check or money order to NRC HQ, PO Box 473251, Aurora CO 80047-3251.

NRC County Cross Reference (CCR)

Compiled by Bill Hale. This handy reference has a complete list of counties in the USA and Canada. These are listed alphabetically and cross referenced by state.

Price: IRCA/NRC Member USA \$8.95, Non-Member USA \$11.95. Other countries write for quote sales@nrccxas.org.

Order from NRC, PO Box 473251, Aurora CO 80047-3251 or <http://www.nationalradioclub.org>. Colorado residents, please add 3.5% sales tax. **Please state club affiliation when ordering.**



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

Geomagnetic Summary December 1 2019 through December 31 2019

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

Date	Flux	A	K	Space Wx										
12/ 1	71	4	2	no storms	12/12	71	4	2	no storms	12/23	73	4	0	no storms
2	70	2	0	no storms	13	69	4	0	no storms	24	73	2	0	no storms
3	71	2	1	no storms	14	70	3	2	no storms	25	72	4	2	no storms
4	70	3	0	no storms	15	71	6	3	no storms	26	72	5	1	no storms
5	71	3	0	no storms	16	70	1	0	no storms	27	72	3	0	no storms
6	70	4	1	no storms	17	71	2	1	no storms	28	72	2	1	no storms
7	70	2	1	no storms	18	70	13	2	no storms	29	72	2	1	no storms
8	72	3	1	no storms	19	70	13	1	no storms	30	71	2	1	no storms
9	71	4	2	no storms	20	70	5	2	no storms	12/31	71	4	1	no storms
10	71	4	1	no storms	21	71	4	1	no storms					
12/11	71	6	2	no storms	12/22	71	4	1	no storms					

Gx – Geomagnetic Storm Level

Rx – Radio Blackouts Level

Sx – Solar Radiation Storm Level

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

For those preferring a hard copy, one can be ordered from the IRCA. Prices: **IRCA/NRC members** – \$4.00 (US), \$5.00 (Canada) \$7.00 (Mexico), \$7.50 (rest of the world). **Non-IRCA members** – add \$1.00.

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

For those preferring a hard copy, one can be ordered from the IRCA Bookstore.

Prices: **IRCA/NRC members** – \$5.00 (US), \$6.00 (Canada) \$8.00 (Mexico), \$9.00 (rest of the world). **Non-IRCA/NRC members** – add \$1.00.

IRCA TIS/HAR LIST (Summer 2018)

The **IRCA TIS/HAR LIST** lists all US and Canadian TIS/HAR stations, by frequency, including call letters, state (province,) city, county, licensee, address, coordinates, expiration date and dates of DXM/DXN reports/sources. It has been updated with FCC data, DXM, DXN and DXer reports, and on-line listings through June 6 2018.

The 2018 IRCA TIS/HAR LIST is posted on the IRCA website for all to download. The link is: http://www.ircaonline.org/editor_upload/File/TIS_2018.pdf

For those preferring a hard copy, one can be ordered from the IRCA.

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A DXers Technical Guide, 4th Edition (Spring 2004)

In its nearly 200 pages you will learn about the principles underlying the design of successful receivers, antennas and receiving accessories, find reviews of the best commercially available DXing equipment in different price ranges, as well as detailed instructions for building one's own antennas and other DXing aids. Although it focuses on the technical backdrop to medium wave DXing, it will also be of interest to serious shortwave listeners and low band radio amateurs.

Prices: **IRCA/NRC members** – \$15.00 (US), \$16.50 (Canada) \$18.00 (Mexico), \$20.00 (rest of the world). **Non-IRCA/NRC members** – add \$2.00.

To order from the IRCA, send the correct amount (in US funds payable to **Phil Bytheway**) to: **IRCA Bookstore, 9705 MARY NW, SEATTLE WA 98117-2334**. Or, order through PayPal to Email: phil_tekno@yahoo.com (Phil Bytheway). **Please state club affiliation when ordering.**

THE INTERNATIONAL RADIO CLUB OF AMERICA
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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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