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Seattle deadline for our next issue (V57_N08) is Monday 10/21/19 1600 (we are weekly now)

New Foreign Log

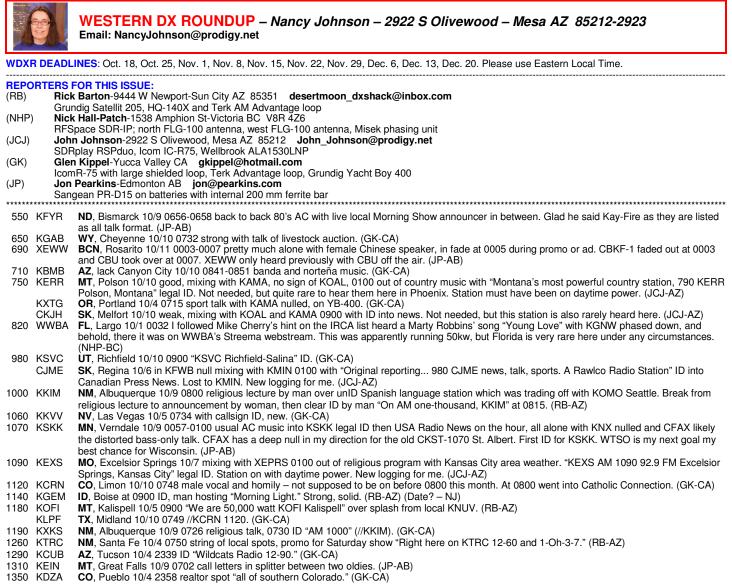
I had some time on my hands this weekend, so I threw together a compilation of the DX WorldWide columns from the last volume of "DX Monitor" (9/1/18 through 9/1/19)... collated them and generated Trans-Atlantic, Trans-Pacific and Pan-American sections along with a list of reporters. In addition, I included most of the equivalent Foreign DX DXpeditions column reports (and removed the domestic loggings). I then created a searchable **.pdf** of the whole thing (55 pages). Anyone wanting a copy of the .pdf, please Email me at **DXMEIC@gmail.com** and I will forward one to you. I do NOT plan to offer this in printed form... y'all can print out a copy if you need one!! Phil B



IRCA PRESIDENT – Bruce Portzer – 6546 19th Ave NE – Seattle WA 98115 Email: portzerbt@gmail.com

2020 Convention

We're still looking for a city to host our 2020 convention. Let me know if you're interested and I'll help you work out the details. The deadline for bids is normally October 15, but that date can be extended until a viable bid is submitted.



- AZ, Parker 10/5 0003-0006 in news; callsign ID 0006. Good signal for 58 watts. (GK-CA) 1380 KLPZ
 - KTKZ CA, Sacramento 10/7 0845 Hugh Hewitt Show, talk break to ID and "Salem News." (RB-AZ)

1480 KQAM KS, Wichita 2330 Jim Bohannon Show, over/under numerous co-channels, heard with indoor loops on HQ-140X. (RB-AZ) (Date? - NJ)

- 1580 KGAL OR, Lebanon 10/9 0700 weak with legal ID. Only heard about one in four nights here because of their tight null to protect a proposed 1580 Edmonton that never happened. (JP-AB) MD, Lexington Park 9/26 2233 "adult standards 16-90 WPTX" ID by man, fair strength, and dominant on channel, then after about a 15 second
- 1690 WPTX delay same ID heard on their webstream https://www.elasticplayer.xyz/wptx. For me, this is likely a new state. (NHP-BC)

Thank you for the WDXR reports everyone, a great collection of stations were reported this week! - Nancy 10/11 1900

CENTRAL DX ROUNDUP – John C Johnson – 2922 S Olivewood – Mesa AZ 85212-2923 Email: John_Johnson@prodigy.net CDXR reports ONLY: cdxr@ircaonline.org
[EB-MO] Eric Bueneman, Hazelwood, MO NOUIHEric@gmail.com
CountyComm GP-5/SSB Gen 3 Ultralight receiver, Grundig AN-200 tunable loop, Yaesu FRG-7, Worcester Space Magnet II [TN-WI] Tim Noonan , Oak Creek WI DXing2@aol.com
Kenwood R-1000, Radio West Loop
DOWN THE DIAL
590 KXSP NE. Omaha. 10/8 fair signal in KFNS null. 0421 noted with ESPN Sports Center All Night, ESPN promos and local spots. [EB-MO]
940 WYLD LA, New Orleans. 10/8 fair signal over KPSZ, WMIX. 0345 noted with Urban Gospel format, "Hallelujah Nine-40" ID in concert promo. [EB-MO]
950 WNTD IL, Chicago. 10/10 fair signal, mixing with KXJK, WWJ. 0133 noted with a promo for an upcoming spiritual retreat, "Relevant Radio" ID into Go Ask
Your Father, with a guest talking about Saint John Paul II's first trip to the United States as Pope. [EB-MO]
960 KMA IA, Shenandoah. 10/10 fair signal over KZIM, WSBT. 0330 noted with local spots, Web site and news promos, "KMA" ID. [EB-MO]
1050 CHUM ON , Toronto. 10/10 fair signal over KLOH, XEG. 0350 noted with ESPN Sports Center All Night, local spots, "CHUM Toronto is TSN Ten-50, an
iHeart Radio station" legal ID at 0400. [EB-MO]
1070 CHOK ON, Sarnia. 10/10 fair signal over WFNI and other stations. 0249 noted with Classic Hits format, "Your station for sports, CHOK" ID. [EB-MO]
1270 WOTT OH, Marysville, 10/8 fair signal over WXGO. 0124 noted with Classic Rock format, "This is Classic Rock WQTT" ID into local spots. [EB-MO]
1280 WONW OH , Defiance. 10/5 good. 00:00 with "The Talk, AM 1280" slogan and legal ID into Fox News. New for me. [TN-WI]
WWTC MN, Minneapolis. 10/8 fair to poor signal, mixing with WBIG, WGBF. 0220 noted with "12-80 the Patriot" ID in promo. [EB-MO] 1350 WLOU KY, Louisville. 10/4 fair to poor signal, mixing with KRNT, WKCU. 0350 noted with Urban Gospel format, "America's home for relevant Gospel, 13-
50 WLOU KY, Louisville. 10/4 fair to poor signal, mixing with KHNT, WKCU. 0350 holed with Orban Gosper format, America's home for relevant Gosper, 13- 50 WLOU Louisville" legal ID at 0352. [EB-MO]
1400 WRJN WI, Racine. 10/9 fair to poor signal, mixing with WGIL and other stations. 0509 poked through with "WRJN" ID and mention of 99.9 FM. [EB-MO]
1450 KMRY IA, Cedar Rapids. 10/9 fair signal over WASK, WFMB, WMOH and other stations. 0519 noted with "Cedar Rapids' classics, KMRY" ID into Oldies
format. [EB-MO]
1490 KRIB IA, Mason City. 10/9 fair to poor signal, mixing with other stations, KFTK buried deep in the mix. 0517 noted with a promo mentioning KRIB and
the station's Web site. [EB-MO]
FLASHBACK
50 Vages Age October 19 1969 issue of "DV Meniter" Frenk Merrill It of Milen Millorid he was 22 and told of his first DV in 1955 of WOR Bill Nittler of

50 Years Ago - October 18 1969 issue of "DX Monitor" ... Frank Merrill Jr of Milan MI said he was 22 and told of his first DX in 1955 of WOR ... Bill Nittler of Englewood CO mentioned he was running for city council ... Rick Evans of Gary IN said his bachelor pad was three miles from the WIND 560 towers ... Raleigh Biss of Palm Springs CA reported his latest DX ... Richard E Wood of Honolulu HI received veries from Zahedan 777, CX14 810, HJJW 1460, and the first veries ever issued by KOBO 1450. // 25 Years Ago - October 15 1994 issue of "DX Monitor" ... Larry Godwin of Missoula MT logged WSB 750 ... Gerry Thomas of Pensacola FL bought a Watkins-Johnson HF-1000.

OPEN MIKE

Thanks go out to Eric and Tim for reporting this week. The new DX season is upon us. Have you joined this year's DX Contest? This column was typed 10-11-19. 73. John

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

Deadline - Monday 1200 UTC.

*** PAN-AMERICAN DX ***

710 MÉXICO XEDP, Ciudad Cuauhtémoc, Chih. OCT 11 1157 - woman and man in Spanish discussing crime news in Chihuahua; no ID or break at ToH, 6:02 timecheck at 1202. Nor any national anthem which most XEs play around 6 am local. Same woman still audible at 1242 with 6:43 TC. IRCA Log says has been off-frequency -185 Hz for years, but not now, nor has it been lately. Very close to the QRM, KGNC/KCMO. Believe this is one I researched a few years ago in FCC database as having two different transmitter sites, so presumed one of them is seldom-used off-frequency, backup? [GH-OK]

1620 CUBA Radio Rebelde synchros. OCT 6 0046 – music I figure is Radio Rebelde, immediately confirmed by //5025 but latter is distorted, so better on 1620 despite some CCI and fading. [GH-OK]

CONTRIBUTOR

GLENN HAUSER, Enid OK GH-OK

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; ICR-75 E-W longwire.

73 and Good DX, Brandon



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

Grayland TP Report for 8 October (Bruce Portzer via IRCA eGroup)

Chuck (Hutton - pb) and I are at Grayland once again for a couple of nights of TP DX.

Condition this morning were somewhat good. Japanese stations were doing reasonably well. North Koreans were a bit above average, but the South was almost absent (not counting 972 and 1566). China was below normal as well, although there were a few tantalizing signals on 765 783 1089 945 (2 stations) 1368 and elsewhere

Several Filipinos were heard: 558 594 846 1026 1611 and probably others. There also were off-channel carriers on 665.9 and 774.1 which were probably from the Manila Stations. And possibly maybe 630 - I'm not willing to say for sure yet but I think there's a woman speaking Tagalog among the domestics at 1405.

The NHK2 stations signed off at 1440 today, with the NA and chimes noted on a few low powered channels like 1035 and 1467. We also briefly had strong Japanese audio on 1098 //1134, but there are about 10 candidates listed there.

A few DUs made weak appearances but nothing to get excited about (594 612 621 1107 1116 etc). Hawaiians were well below normal.

We have lots of recordings to go through, plus another morning of listening ahead of us.

Bruce

Menauhant Beach DX (Roy Barstow via IRCA eGroup)

This on 10-8-2019. This was the only dry day out of 4 with rain. TA conditions are improved. 12 foot stick (for 12 foot loop) with outboard amplifier and G-33. This directly from my notes and have some stations listed more than once.

- 2200 130 degrees
- 531 SPAIN Mixing with Algeria.
- 612 MOROCCO Good w/music //936.
- 648 SPAIN Pips into news weak.
- 783 SYRIA Music in fair. For those more West this station about the only thing on 783.
- 810 SPAIN Pips then news w/WGY and others.
- 900t COLOMBIA Music and a man mentioned Colombia.
- 917 UnID carrier Nigeria no audio.
- 945 UnID Weak 2215 - 130 degrees
- 558 **SPAIN** Fair Music and talk. //567,603. 595.904 **MOROCCO** Music in fair. //612.
- 621 SPAIN Talk with unknown station under them.
- CANADA VOCM with song, "Hotel California".
 SOUTH AFRICA Magic 828 Pop song but weak.
- 917 NIGERIA Music at S 3.
- 972 IRAN or NIGERIA Music weak, not //to Spain.
- 981 ALGERIA Mideast music.
- 1089t ALGERIA With Mideast music under UK.
- 2220 130 degrees
- 585 IRAN Talk into music with stringed instruments. Not //Saudi Arabia and mixing w/Spain.
- 648t BOTSWANA Weak Repeating words with drums. Not //Saudi Arabia
- or Spain. SOUTH AFRICA Cape Pulpit/Cape Town. Slow religious song mixing 729 with Spain
- SOUTH AFRICA This is Magic 828 between songs. 828
- **IRAN** Woman with a Mideast song at start of file then Spain in control. 837
- SAUDI ARABIA Program w/flutes etc. at start of file. //1512. Spain was 855
- on top. 864 EGYPT Koran - w/slop LSB.
- 2230 130 degrees
- 702t SOUTH AFRICA Weak with a slow song with words like, when I come home or similar. Splatter from NY 710.
- SPAIN Music and talk. Now with less static and noise one will start 801 picking up those stations just above or below a main channel. EGYPT Talk in fair.
- 819
- 828 Magic 828 at S 5-6.
- 945 **IRAN** Presume them with Mideast music.
- 2245 130 degrees
- 531 **SPAIN** RNE 5 Talk //558 and on top of Jill. 580 **PUERTO RICO** Strong.
- 774 EGYPT mixing with Spain.
- 828 SOUTH AFRICA Still in at S 5-6.
- 846 SOUTH AFRICA Weak with a slow repetitious song in unknown language.
- 981 ALGERIA Weak Maybe they need to clean the sand out of the transmitter as below par.
- 2300 130 degrees
- 558 IRAN 3 bells into news. Weak
- 693 SPAIN With it's pips under BBC UK.
- MOROCCO Talk w/slop. //612. 710 NY. Hard to get past them. 711
- 720 **SPAIN** Presume with 5+1 pips in the mix.

- 981 ALGERIA Weak w/talk.
- 990 SPAIN Pips along with CBY.
- 1026t IRAN Chanting weak w/slop. 1080 SPAIN Pips in the mix.
- 1089 UNITED KINGDOM beating up 1090 WBAL.
- 1431 DJIBOUTI Theme music into news. Fair.
- 1566 BENIN Up to S 7 with news.
- 1575t ITALY With classical music.
- 1179 SPAIN With talk mixing with presumed Romania with music.
- 1278t IRAN Talk but weak. 1503 EGYPT Koran under Spain.
- 1512 SAUDI ARABIA and another unknown station. 1521 SAUDI ARABIA Talk in good on USB.
- 1557 UNITED KINGDOM Smooth Radio or Iran with a low sounding musical.
- 1602 SPAIN SER with talk.
- 1660 USA in passing had, "The Fan", WQLR, MI. mixing with NJ.
- 1026 IRAN Mixing with Spain.
- 1071 UnID 2 stations and my guess, Iran and Egypt. One with talk the other w/music
- 1332t UNITED KINGDOM Smooth Radio Slow music. //1557. This also could be Iran.
- 1359 **UnID** with talk but very weak. 1377 **UnID** with talk but very weak.
- 1476.022 IRAN Some music Weak.
- 1584 SPAIN Fair w/talk. //1602.
- 1629 UnID with talk. LSB.
- 1035 UnID Music.
- 1062 ITALY or IRAN
- 1116 UnID with music on top of Spain SER //1044 w/talk.
- 1539 UNITED ARAB EMERITS Music in fair.
- 1638 UnID with music at S 5.
- 1062 **IRAN** With music. At S 6-7.
- 1089 IRAN Radio Semnan, Shahrud Under UK. First part of file w/music. //1062. NEW.
- SPAIN Mixing with unknown station under them.
- 1278 UnID Man singing a Mideast song. Maybe Iran but no // found.
- 1332 UnID Could be English into a fast paced song.
- 1512 SAUDI ARABIA Quran Good and under Iran maybe.
- 756 IRAN Maybe them with Mideast music or chanting but weak. First
- SAUDI ARABIA With Quran. //1512 and mixing with Spain.

The good stuff starting to come in as the weather turns colder. Will try to make a trip to Chatham, maybe when others are DXing from ocean fronts. Take care and good DX to all. Roy Barstow - Falmouth MA. OLD CAPE COD



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

Deadlines: 10/19, 10/26, 11/2, 11/9, 11/16, 11/23 and 11/30

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

Greetings. All times and dates strictly UT. Rx: 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. 328 kHz, October 9 at 0648, ND beacon dash and YTL, 1000 watts from Big Trout Lake, Ontario. Wikipedia explains: "Oji-Cree First Nation Reserve – Kitchenuhmaykoosib Inninuwug, also known as Big Trout Lake First Nation or KI for short, is an Oji-Cree First Nation reserve in Northwestern Ontario and is a part of Treaty 9. The community is about 580 km north of Thunder Bay, Ontario. Big Trout Lake is a large lake in Northern October The Development of the use of the word device it form the prevent of the prevent of the view backstone and the second device in Northern Ontario. The Fawn River flows into it from the west and drains it from the east. The reserve of the Kitchenuhmaykoosib Inninuwug First Nation, also known as Big Trout Lake, is located on Post Island on the lake's northern shore." Logged before, April 1, as in DXLD 19-14: https://www.w4uvh.net/dxld1914.txt. A surprise lightning storm around Enid suggests it's high time I disconnect and QRT.

CANADA. 332 kHz, October 9 at 0647, ND beacon dash and QT, 1000 watts from Thunder Bay ON, and mixing with IC, Wichita KS, 400 watts. CANADA. 335 kHz, October 9 at 0645, dash and ND beacon YLD, which is 1000 watts from Chapleau, Ontario, not sked for decommissioning.

Seems first time I've logged it but Harold Frodge, Michigan has reported it numerous times since at least 2006y. Chapleau is between Timmins and SSM

CANADA. 336 kHz, October 9 at 0646, ND beacon BV with long pauses and no dash, heard while tuned to 335, mixing with YLD, but different pitch of course. Is 100 watts from Quebec City - Champlain per dxinfocentre.com.

- reception on 756 this fall. 792
- 1098

CANADA. 341 kHz, October 7 at 0628, dash and YYU NDB ID, 500 watts from Kapuskasing, Ontario, may be the final time I log it since http://dxinfocentre.com/ndb.htm reminds us in red YYU is one of those TO BE DECOMMISSIONED 2019-10-10. I wonder how much the Kapuskasingers will miss it? No sign of Enid's only beacon El on 341, not that it's weak 25 watts were an obstacle.

USA. 341 kHz, October 7 at 1323 almost an hour after 1232 sunrise, OIN is the only beacon audible on 341, no sign at this hour of YYU in Kapuskasing; see CANADA. OIN is 25 watts from Oberlin KS. No sign either of Enid's only beacon El on 341 from Woodring Airport (which has a brandnew manager, terminal building and runways being refurbished as Vance AFB also uses it), not that its weak 25 watts were an obstacle. There are plenty more 341s as yet unheard from Alaska, Greenland, Canada, Mexico and all over Lower 48. I tend to check 341 first on "LW" beacon-scans. Other regulars nearby are 350 RG from Will RoGers WA in OKC; 255 SW Stillwater; and 515 PN Ponca City which is strongest of all, though listed only minimum power of 25 watts.

CANADA [and non]. 341 kHz, October 9 at 0644, 500 watt ND Beacon dash and YYU still on, a day before decommissioning in Kapuskasing, Ontario; and still no sign of local Enid 25-watter EI. When I get a chance, must visit Woodring Airport to find out the fate of EI. Of course, some beacons are turned on only at certain hours, or when an incoming flight requests.

USA. 395 kHz, October 7 at 1324, ND beacon CA, which is 25 watts from Newton-Harvs KS. What is Harvs?

USA. 820, October 10 at 0052, WBAP still has QRM with slow SAH, somewhat audible when nulled, WBAA singing ID just before 0100, as Largo FL station is *still* obviously on 50 kW day power instead of 1 kW night. If they have a legit problem switching to night power and pattern, they should just turn it off!

USA. 1110, October 11 at 1250, talk in S Asian language, best with KFAB nulled. Of course, it's KVTT Mineral Wells (The Metroplex) TX, listed merely as "Asian" format. Don't hear this often; is 50 kW daytimer but now would be reduced to only 39 kW Critical Hours. D4 in NRC AM Log means different antenna pattern during CH than in daytime.

UnID. 1476.85 and 1503.15 approximately, October 13 at 0614, matching unreadable spur-blotches which must be coming out of a 1490 transmitter exactly halfway between, noted during a TA carrier bandscan. Previously heard these around 1476 and 1504, October 11 at 1221 during a TP MW carrier bandscan and DFed to WSW/ENE, but overlooked reporting then. Most likely out of an adjacent-or possibly second-adjacent state, such as KBST Big Spring TX. KZZN Littlefield TX, KDMO Carthage MO or one of the other two MOs in Sedalia, Rolla. DXers in those local areas, if any, please check them out, especially daytime.

OKLAHOMA. 1610, October 10 at 2008, parked at Oakwood Mall, getting more and more vacant, west side of Enid, noisy carrier here compared to 1620 open on the caradio. On a portable also without BFO, loops roughly NW/SE, which could point to the TIS at Great Salt Plains, near Jet OK; but this is stronger than normally marginally audible in this part of town; yet no NWS weather relay or any modulation. Later at home I do detect a JBA daytime carrier roughly NNW/SSE. This axis could also lead to something on Vance AFB in the opposite direction where its last TIS was on 530, not 1610. What next?

UnID. 1610, October 13 at 0619, big S9 hum, perhaps related to my daytime unID noise; no sign of CHHA Toronto which normally dominates here at night, so maybe out of that but seems too strong. USA. 1680, October 12 at 1235 and still at 1249, dead air looping SE/NW, surely KRJO Monroe LA, the usual dominator. Initially atop some other

weak modulator(s), likely remnant of WPRR MI, maybe KGED CA. The only other three 1680 Unitedstatesians never heard here, from WA, FL, NJ. BTW a DXer in Bâton Rouge told me October 7 that his local pirate, Radio Retén Lo Que Tienes has reactivated but on 1690 instead of 1710; which will make it much tougher to DX. Maybe nulling WVON early evening before KDMT fade-in. See: https://www.radioretenloquetienes.com/radio-tv-live/. Pretty snazzy website. One of the slides in their show mentions 1690 AM, but I don't see an FM frequency anywhere. "Radio" is 24/7 but not clear if that means 1690 and/or websteam audio/video.

UnID. Trans-Atlantic JBA MW carrier search, a good idea as Jim Renfrew, NY has been reporting lots of stuff now and recently: this on the handheld DX-398 to be sure they DF approx. NE if not SW, but facing lots of splatter from those pesky North Americans on even frequencies: 612, 621, 693, 774, 783, 837, 855, 882, 936(2), 999, 1017, 1053, 1062, 1089, 1125, 1179, 1215, 1296(2), 1305, 1413, 1422, 1502, 1512. (I also have offfrequency-minus hets below 774 and 1548, but as previously divined, those two are harmonically related to each other and to 387-, so something local; never mind)

UnID. Trans-Atlantic JBA MW carrier search, October 13 at 0606-0613, still before sunrise in W Europe, less than 5 hours after the previous one on the DX-398, now on the R-75 with E/W longwire: 1215, 1152, 1134, 1125, 1098, 1089, 1044, 1026, 936, 909, 882, 855, 846(TP Kiritimati?), 774(2), 756, 747, 729, 711, 693, 621, 612(2), 585, 567, 558(2), 531; 1314, 1413.

USA. 2097.3, October 8 at 0600, no signal detected from beacon A, which used to ID in CW every dekasecond from anywhere but Quartzsite AZ; nor some previous recent chex, as it always used to penetrate even noisy night-paths. Is anyone still hearing it?

UnID. 3325, October 8 at 1326, S5-S7 of dead air; should be enough signal to detect modulation if any; more likely Indonesia's English hour than Bougainville.

KOREA SOUTH [and non]. Seems Voice of the People, and Echo of Hope are shifting frequencies, mostly by 5 kHz, from one day to the next to keep the North Korean jammers alert. My observations October 8 at 1316-1326: Voice of the People: 3480 not 3485; 3910; 6600 not 6595. Echo of Hope/VOH: 3985 but a JBA carrier on 3990; 4890 not 4885; 5995 not 5990 but a JBA carrier on 5990; 6350 not 6348; and at 1356, 9105 not 9100. I could also hear noise jamming on: 6350, 6600, 3985, 3910. Note that 4890 was NBC PNG's flagship frequency should they ever reactivate.

KOREA SOUTH [and non]. 4890, October 12 at 1252, Korean VP vs building local noise level of S9+10, not on 4885; at 1308 a quick check of other EOH=VOH/VOP frequencies finds carriers or modulation, some noise-jammed, some not, on: 9105, 6600, 6350, 6250, 5995, 4450, i.e. some back on original frequencies, some not.

SURINAME. 4990, October 12 at 0613, not even a JBA carrier from Radio Apintie, nor have I noticed one in quite some time in nightmiddle nor earlier. Suspect they are OFF, another SWBC country gone. The latest logs I can find were 2.5 months ago: 4990 2147-2157, 25/7. Música pop'; 24331 (Carlos Gonçalves, Portugal) 4990, Radio Apintie, Paramaribo, 0530-0540, 26-07, pop songs. 15321 (Manuel Méndez, Spain, WOR iog via DXLD)

CUBA. 5025, October 7 at 0614, no signal from Radio Rebelde which is normally 24h.

CUBA. 5040, October 10 at 0618, Radio Havana Cuba English is still on here, and //best 6100, while 6165 has reverted to JBA and 6000 off.

CUBA. 5040, October 11 at 0611, Radio Havana Cuba is still on at S9+20 but dead air. Other English frequencies: 6000 still on but undermodulated: 6100 S9+30/40 somewhat suptorted: 6165 off.

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



Welcome to another edition of SportChannels! Football season is under way, and we're featuring NFL station listings. Only piecemeal information is available, since most NFL teams are no longer releasing radio network information to the public. As a result, NFL station listings will no longer be presented in SportChannels after this season. We'll wrap up the NFL listings with the remaining teams in the league. Flagship stations are in boldface type.

ATLANTA FALCONS Web: atlantafalcons.com

92.9 WZGC Atlanta, GA

BALTIMORE RAVENS Web: baltimoreravens.com

AM 1090 WBAL Baltimore, MD

FM 97.9 WIYY Baltimore, MD (simulcast) 101.5 W268BA Baltimore, MD (1)

BUFFALO BILLS John Murphy, Eric Wood, Web: buffalobills.com											
AM 550 WGR Buffalo, NY 590 CJCL Toronto, ON 950 WROC Rochester, NY 1120 WKAJ Saint Johnsville, NY 1230 WMML Glens Falls, NY 1240 WGVA Geneva, NY 1240 WJTN Jamestown, NY	1260 WRIE Erie, PA 1380 WABH Bath, NY 1410 WDOE Dunkirk, NY 1420 WACK Newark, NY 1590 WAUB Auburn, NY	FM 92.7 WQTK Ogdensburg, NY 93.3 WWSE Jamestown, NY 93.9 WDNY Dansville, NY 94.1 WOTT Calcium, NY 94.9 W235BP Dunkirk, NY (1) 94.9 WKLL Frankfort, NY 95.7 WPIG Olean, NY	96.5 WCMF Rochester, NY 97.3 WYXL Ithaca, NY* 97.9 W250CC Glens Falls, NY (2) 100.1 WBRR Bradford, PA 100.9 WKRL North Syracuse, NY 101.9 WZKZ Alfred, NY 104.9 WNGZ Montour Falls, NY 106.5 WKRH Fair Haven, NY								
Relays: 1) WDOE 1410, 2) WMML 1230, Note: * denotes Bills' list has frequency as 96.3											
CAROLINA PANTHERS Mick Mixon,	Jim Szoke, Web: panthers.com										
AM 570 WWNC Asheville, NC 580 WLVA Lynchburg, VA 590 WCAB Rutherfordton, NC 610 WPLY Roanoke, VA 810 WPIN Dublin, VA 920 WYMB Manning, SC 960 WRNS Kinston, NC 1010 WSPC Albemarle, NC 1050 WLON Lincolnton, NC 1080 WKGX Lenoir, NC 1110 WBT Charlotte, NC 1230 WNNC Newton, NC 1240 WJNC Jacksonville, NC Belays: 1) WI VA 580 2) WPLY 610.	1250 WKDX Hamlet, NC 1280 WSAT Salisbury, NC 1340 WYNF Augusta, GA 1340 WHAP Hopewell, VA 1390 WOHS Shelby, NC 1400 WSIC Statesville, NC 1410 WEGO Concord, NC 1410 WVCB Shallotte, NC 1450 WHKP Hendersonville, NC 1450 WIZS Henderson, NC 1590 WCSL Cherryville, NC FM 92.3 WKRR Asheboro, NC 93.7 WNTB Topsail Beach, NC	94.1 W231CE Lynchburg, VA (1) 94.3 WSCC Goose Creek, SC 97.3 W247AD Roanoke, VA (2) 98.3 W252DI Concord, NC (3) 98.5 W253BE Salem, VA (2) 99.3 WZAX Nashville, NC 99.3 WBT-FM Chester, SC 99.9 WCMC Holly Springs, NC 100.1 WWFN Lake City, NC 100.3 WSEA Atlantic Beach, SC 100.7 W264CU Statesville, NC (4) 100.9 WIFM Elkin, NC 100.9 WSTS Fairmont, NC 101.1 WROQ Anderson, SC	102.3 WMFX Saint Andrews, SC 102.7 WPUB Camden, SC 103.3 W277DD Salisbury, NC (5) 103.7 WTIB Williamston, NC 103.7 WURV-HD2 Richmond, VA 104.5 W283CE Lenoir, NC (6) 105.9 W290DK Mooresville, NC (4) 106.1 W291CL Richmond, VA (7) 106.3 WUDE Bolivia, NC 107.1 WTKF Atlantic, NC 107.7 W299BZ Hendersonville, NC (8)								
CHICAGO BEARS Web: chicagobea	, ., .,	1200, 0) WRGA 1000, 7) WORV-HD2 10	3.7, 6) WHITE 1450								
780 WBBM Chicago, IL (English)		1200 WRTO Chicago, IL (Spanish)									
CINCINNATI BENGALS Dan Hoard,	Dave Lapham, Wayne Box Miller, Web: b	engals.com									
AM 600 WKYH Paintsville, KY 700 WLW Cincinnati, OH 790 WKRD Louisville, KY 930 WRVC Huntington, WV 970 WATH Athens, OH 990 WTIG Massillon, OH 1010 WIOI New Boston, OH 1150 WIMA Lima, OH	1270 WQTT Marysville, OH 1300 WMVO Mount Vernon, OH 1300 WJYP Saint Albans, WV 1320 WLOH Lancaster, OH 1340 WCMI Ashland, KY 1340 WMON Montgomery, WV 1360 WMOV Ravenwood, WV 1480 WTLO Somerset, KY 1490 WMOA Marietta, OH	1490 WMRN Marion, OH 1530 WCKY Cincinnati, OH 1570 WPTW Piqua, OH FM 92.1 WBVX Carlisle, KY 92.7 WHIZ-FM South Zanesville, OH 95.9 WKID Vevay, IN 96.7 WBVI Fostoria, OH 96.7 WCSM-FM Celina, OH	99.3 W257EQ Logan, OH (1) 102.3 WCYN-FM Cynthiana, KY 102.7 WEBN Cincinnati, OH 104.5 W283BO Lancaster, OH (1) 104.7 WTUE Dayton, OH 105.7 WXZX Hilliard, OH 106.7 W294CN New Boston, OH (2) 106.7 W294AF Ripley, WV (3)								
Relays: 1) WLOH 1320, 2) WIOI 101	0, 3) WMOV 1360										
CLEVELAND BROWNS Web: clevel	andbrowns.com										
850 WKNR Cleveland, OH	92.3 WKRK Cleveland	d Heights, OH (simulcast) 98.5 WNG	CX Cleveland, OH (simulcast)								
DENVER BRONCOS Web: denverbr 850 KOA Denver, CO Relay: 1) KOA 850	roncos.com 94.1 K231AA Boulder,	CO (1) 94.1 K23	1BQ Golden, CO (1)								
DETROIT LIONS Web: detroitlions.	com										
AM 590 WKZO Kalamazoo, MI	1400 WSJM Saint Joseph, MI 1450 WHTC Holland, MI	96.9 WLAV Grand Rapids, MI** 97.7 WTGV Sandusky, MI	101.9 W270CJ Jackson, MI (5) 101.9 WLDR Traverse City, MI								

590 WKZO Kalamazoo, MI	1450 WHTC Holland, MI	97.7 WTGV Sandusky, MI	101.9 WLDR Traverse City, MI
760 WJR Detroit, MI	1460 WBRN Big Rapids, MI	98.1 WGFN Glen Arbor, MI	102.5 WCMM Gulliver, MI
970 WKHM Jackson, MI	1490 WBBL Whitehall, MI*	98.3 WLCS North Muskegon, MI	103.7 WCSY South Haven, MI
1050 WTKA Ann Arbor, MI 1240 WJIM Lansing, MI 1280 WFYC Alma, MI 1380 WTRX Flint, MI 1340 WCSR Hillsdale, MI 1340 WJRW Grand Rapids, MI* 1340 WMBN Petoskey, MI 1380 WPHM Port Huron, MI 1400 WCCY Houghton, MI	FM 92.1 WCSR-FM Hillsdale, MI 93.1 WIMK Iron Mountain, MI 93.3 WKQZ Midland, MI 93.7 WKAD Harrietta, MI 93.9 WNBY-FM Newberry, MI 95.3 WCHY Cheboygan, MI 96.5 W243AD Adrian, MI (1) 96.7 WRGZ Rogers City, MI	98.7 WGLI Hancock, MI 99.3 W257CZ Houghton, MI (2) 99.3 WBET-FM Sturgis, MI 99.5 W258DE Hillsdale, MI (3) 99.7 W259CO Holland, MI (4) 100.3 WQON Grayling, MI 100.3 WUPT Gwinn, MI 100.7 WWTH Oscoda, MI 101.1 WUPY Ontonagon, MI	103.9 WLEN Adrian, MI 104.7 WYKX Escanaba, MI 106.1 W291DJ Grand Rapids, MI (6)* 106.5 WTOD Delta, OH 106.9 W295BP Haslett, MI (7) 106.9 W295CL Kalamazoo, MI (8) 107.7 W299BE Big Rapids, MI (9)

Relays: 1) WLEN 103.9, 2) WCCY 1400, 3) WCSR 1340, 4) WHTC 1450, 5) WKHM 970, 6) WJRW 1340, 7) WJIM 1240, 8) WKZO 590, 9) WBRN 1360, Notes: * denotes station carries only pre-game and post-game shows, ** denotes station only carries play-by-play

HOUSTON TEXANS Marc Vandermeer, Andre Ware, John Harris, Web: houstontexans.com

AM 610 KILT Houston, TX 710 KBUC Edinburg, TX 760 KTKR San Antonio, TX 940 KIXZ Amarillo, TX 1130 KWKH Shreveport, LA 1150 KZNE College Station, TX 1230 KSIX Corpus Christi, TX 1240 KVLF Alpine, TX	1260 KKSA San Angelo, TX 1260 KSML Diboll, TX 1280 KWHI Brenham, TX 1300 KVET Austin, TX 1390 KULP El Campo, TX 1400 KBYG Big Spring, TX 1410 KLVQ Athens, TX 1450 KIKR Beaumont, TX 1450 KMHT Marshall, TX	1470 KWRD Henderson, TX 1510 KBED Nederland, TX 1590 KGAS Carthage, TX 1590 KLRK Mexia, TX 1600 KOGT Orange, TX FM 92.3 KETX-FM Livingston, TX 92.5 KMWX Abilene, TX 93.5 KBPC Crockett, TX	94.1 KTRG Hooks, TX 98.1 KKCL Lorenzo, TX 99.9 KSHN Liberty, TX 100.3 KILT-FM Houston, TX 101.3 K267AI Moody, TX (1) 103.9 KMHT-FM Marshall, TX 103.9 KRIA Plainview, TX 106.9 KLUB Bloomington, TX
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Relay: 1) KLRK 1590

LOS TEXANS DE HOUSTON Enrique Vasquez, Gustavo Rangel, Web: houstontexans.com

JACKSONVILLE JAGUARS Web: jaguars.com								
1010 WJXL Jacksonville Beach, FL		92.5 WJXL-FM Jacksonville Beach, FL (simulcast)						
MIAMI DOLPHINS Web: miamidolphi 560 WQAM Miami, FL	ins.com	99.9 WKIS Boca Raton, FL (simulcast)						
MINNESOTA VIKINGS Web: vikings.	com							
100.3 KFAN-FM Minneapolis, MN								
NEW ENGLAND PATRIOTS Bob Soc	•							
AM 630 WPRO Providence, RI 940 WINE Brookfield, CT 1080 WTIC Hartford, CT 1230 WNAW North Adams, MA 1280 WPKZ Fitchburg, MA 1280 WHTK Rochester, NY 1340 WSTJ Saint Johnsbury, VT 1350 WINY Putnam, CT 1420 WBEC Pittsfield, MA 1420 WBSM New Bedford, MA	1480 WSAR Fall River, MA 1490 WGCH Greenwich, CT 1490 WMRC Milford, MA 1490 WEMJ Laconia, NH 1490 WIKE Newport, NH 1490 WINQ Brattleboro, VT FM 92.9 WEZQ Bangor, ME 94.5 WDVT Rutland, VT 95.1 WXTK West Yarmouth, MA 95.3 WPVQ Greenfield, MA	98.3 WLNH Laconia, NH 98.5 WEBB Waterville, ME 98.5 WBZ-FM Boston, MA 98.7 WINQ-FM Winchester, NH 99.1 WNNH Henniker, NH 99.7 WEAN Wakefield-Peacedale, RI 100.1 WWFX Southbridge, MA 100.5 WXXK Lebanon, NH 101.3 W267CD Milford, MA (1) 101.3 WCPV Essex, NY 101.9 WOZI Presque Isle, ME	102.1 WAQY Springfield, MA 102.1 WSAK Hampton, NH 102.9 WBLM Portland, ME 103.7 WPKQ North Conway, NH 104.9 WBOQ Gloucester, MA 105.3 WSHK Kittery, ME 106.3 WFNQ Nashua, NH 107.1 WRFK Barre, VT 107.3 W297BS Laconia, NH (2)					
Relays: 1) WMRC 1490, 2) WEMJ 149	90							
NEW YORK GIANTS Web: giants.co 660 WFAN New York, NY	m	101.9 WFAN-FM New York, NY (simula	cast)					
NEW YORK JETS Web: newyorkjets 92.7 WQBU Garden City, NY (Spani		98.7 WEPN-FM New York, NY (Englis	sh)					
PHILADELPHIA EAGLES Web: phila 94.1 WIP Philadelphia, PA	delphiaeagles.com							
PITTSBURGH STEELERS Web: stee 970 WBGG Pittsburgh, PA	lers.com	102.5 WDVE Pittsburgh, PA (simulcas	t)					
TAMPA BAY BUCCANEERS Web: bu 97.9 WXTB Clearwater, FL	uccaneers.com							
TENNESSEE TITANS Web: titansonl 104.5 WGFX Gallatin, TN	ine.com							
WASHINGTON REDSKINS Web: red	skins.com							
980 WTEM Washington, DC		105.9 WMAL Woodbridge, VA (simulca	,					
No radio broadcast information is available for the following teams: DALLAS COWBOYS, GREEN BAY PACKERS, INDIANAPOLIS COLTS and NEW ORLEANS SAINTS. This will wrap up the NFL radio listings when SportChannels returns, the NHL radio listings will be featured, starting with the Central Division of the Western								

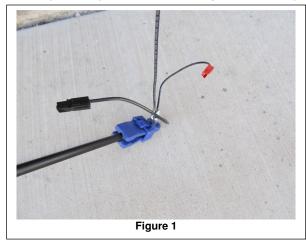
This will wrap up the NFL radio listings... when SportChannels returns, the NHL radio listings will be featured, starting with the Central Division of the Western Conference. 73 and play hard from NØUIH, the Florissant Valley Dial Twister.



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

Alternate way to build a DKAZ and other loops by Dave Aichelman, N7NZH

Let's start with general ideas. I use Anderson connectors to standardize all my antenna connections and 3/16" flush cable clamps from Home Depot, to build all my loops and arrays. I use black Anderson connectors for the 'base' wire and red for the 'sky' wire as I call it. Figure 1 is a view of the bottom of one of my Tent Pole loops. Both bottom ends have the same connector setup, allowing me to plug in an active or passive antenna module/matchbox on one end and either jumper the red/black leads together on the other end to make a bi-directional loop or add a resistor or variable pot on the other base end to make a flag-style antenna. The silver clamp shown better Figure 2, fits covered #14 wire perfectly and allows you to create loops of a specific size and not have to disassemble them again. You can paint the inside of the clamp with liquid tape, if desired, to prevent shorts when running both end of a loop next to each other within the clamp. However, I have never found it necessary in the 10 years I have been building antennas this way.





For the DKAZ array, I look at things differently. I see 2 identical delta-shaped loops brought together at a common central stake between them. Because I use the small 3/16" clamps and Anderson connectors, the 2 delta loops making up a DKAZ are modular and can be used as individual loops as well as part of a DKAZ array. When done this way each delta loop is ½ the width of the full DKAZ. So, for example, if we are building a 20' x 88' DKAZ, each loop is 20' x 44' in size. Figure 3 shows the connections to make this work, including the very important 'twist' of the center connectors needed to 'phase' the DKAZ.

This picture shows the central post with the 2 antenna halves of the DKAZ coming together. Note that the clamps hold the antenna ends in place at the middle of the DKAZ array. Also, you can see the simple way the phasing 'twist' is made using Anderson connectors. Keep in mind, the black connectors are the 'base' wires and the red connectors are the 'sky' wires of each delta loop making up the DKAZ array.

To actually build the DKAZ array this way, I start with the central post and stretch out the 2 base wires and tension the outer stakes with the central stake. I make sure the base wires form a straight line in the direction desired and that there is enough tension from both lower ends of the array to keep the base wires from sagging and that the central stake is straight up again, rather than bowed one way or the other from too much tension from one end of the array.

Next I find the 2 center points for each loop element and raise up the 2 masts with the 'sky' wires on it. I look for just a little sag on each loop section to gauge that I have enough tension. By the way, I use the plastic screw-on Y shaped piece of a paint roller (metal frame removed) screwed or pressed onto the top of the masts, to hold the center of each loop section up in the air, at the top of each mast.

The next step is to connect the loop sections together at the middle, with the 'twist' of connectors to provide the phasing component to the DKAZ, as noted in the picture above.

And the final step is to add the null resistor on one end and the amplifier module or passive matchbox on the other lower end of the array.

If the array is a bigger one, it helps to use 'ball bungees' on the masts to hold the base wires up at the proper height, even with the notch used in each electric fence post, if that is what you use as stakes. The same construction techniques can be used on individual delta or square loops also, allowing you to make your antennas modular without the need to take them apart. It is important for both DKAZ arrays and loop arrays in general, to have matching loops sizes and this is one way to do that, with modular components. See the paint-roller 'Y' and clamp details in Figure 4.

I would be happy to answer any questions or to provide additional information. Email me at: daiche@yahoo.com if you need help.

(editor's note: this was a handout at the 2019 IRCA convention, accompanying Dave's talk about Fixed Phasers. For other details on DKaz construction, please see Mark Durenberger's "The DKaz Cookbook" in DX Monitor for 22 December 2018 and for 5 January 2019)





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

Geomagnetic Summary September 1 2019 through September 30 2019

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

Date	Flux	Α	κ	Space Wx										
9/1	67	45	5	moderate, G2	9/11	68	5	1	no storms	9/21	68	7	1	no storms
2	69	21	3	minor, G1	12	69	7	1	no storms	22	68	4	1	no storms
3	69	10	2	no storms	13	68	8	1	no storms	23	66	3	1	no storms
4	69	12	2	no storms	14	69	6	3	no storms	24	67	13	1	no storms
5	68	14	2	no storms	15	68	8	3	no storms	25	68	4	1	no storms
6	69	8	1	no storms	16	69	11	2	no storms	26	67	4	1	no storms
7	74	7	2	no storms	17	68	9	4	no storms	27	66	21	5	minor, G1
8	68	10	3	no storms	18	66	9	2	no storms	28	67	27	4	minor. G1
9	69	14	3	no storms	19	67	4	1	no storms	29	67	13	4	no storms
9/10	70	4	0	no storms	9/20	67	3	1	no storms	9/30	68	14	2	no storms
Gx – Geomagnetic Storm Level Rx – Radio Blackouts Level					Sx – Sola	ar Rad	liation	Storm	Level					

IRCA Slogans List (September 2019) – now available!!

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 (México), \$7.50 (rest of the world). Non-IRCA members – add \$1.00.



Figure 3

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 (México), \$9.00 (rest of the world). Non-IRCA/NRC members - add \$1.00.

Full Color IRCA Letterhead

Full color 8.5 x 11 MS Word 2007 file with the current IRCA logo. Send Email to phil_tekno@yahoo.com to get yours today! Great for verification requests.

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.

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

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 (México), \$20.00 (rest of the world). Non-IRCA/NRC members - add \$2.00.

12 maps showing 15 minute sunset and sunrise times for the US and 12 maps showing hourly sunset and sunrise times for the World. Explanation includes use of the maps and examples of DX made possible by knowledge of SR/SS times.

Prices: IRCA/NRC members - \$2.25 (US), \$3.00 (Canada) \$3.50 (México), \$4.50 (rest of the world). Non-IRCA members - add \$1.00.

IRCA Foreign Log

The IRCA has published nine volumes of the IRCA Foreign Log which are still available. Each volume contains the several hundred actual tips that were reported to the DXWW sections during an entire year, compiled and retyped in a book format. In addition, special features include articles on foreign DXing (volumes 6, 7 and 8), utility lists (volumes 7 and 8), shortwave parallels (volume 8) and BCB propagation (volumes 6, 7 and 8). The **IRCA** still has printed volumes of 3, 4, 6, 7 and 8 of the **IRCA Foreign Log** available for \$2.50 each (overseas add \$3.00/book). **Or**, send an Email to **phil_tekno@yahoo.com** and I will forward searchable .pdf copies of 3-10.

IRCA Reprints

The IRCA maintains a large file of articles that have appeared in past issues of DX Monitor. These articles cover a wide variety of topics, including: antenna theory and construction, tips for the foreign BCB DXer, how to improve your DXing skills, history of DXing and broadcasting, lists of stations by subject, construction projects and receiver modification, receiver reviews, medium wave propagation, and more. Copies are available for a nominal charge. Price for the complete list is \$1.00

Also from the IRCA. "IRCA REPRINTS ON CD" !!! 648 Reprints. The entire set, now on one CD. Categories include: Antennas, Domestic, Foreign, History, DX Lists, Receivers and Receiver Modifications, and Technical. Check out the table of contents at: http://ircaonline.org/2004ReprintList.htm.

Prices: IRCA/NRC members - \$10.00 (US), \$11.00 (Canada) \$11.50 (México), \$12.50 (rest of the world). Non-IRCA/NRC members - add \$2.00.

"DX Monitor" on DVD

IRCA's regular bulletin "**DX Monitor**" Volumes 1 through 53 in .pdf format on 2 DVDs. Re-live the days gone by and re-introduce yourself to the former members who helped make the IRCA great!! NOTE: You will NEED a DVD reader to open the .pdf files. These files were TOO LARGE to use regular CD's. Prices: IRCA/NRC members - \$15.00 (US), \$16.00 (Canada) \$16.50 (México), \$17.50 (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 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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