



DX MONITOR

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I neglected to mention that I put together the DXWW in the last issue from an eGroup posting by Mark Connelly. My apologies to those that reported to Brandon and didn't see their loggings. The appear in this issue. Next Seattle deadline **Monday 5/28/18 6 PM PLT** – pb.

2018 IRCA Convention

The 2018 IRCA convention will be held at the Best Western Plus Charles Inn in St Charles MO on September 7 and 8 2018. The hotel is located at 1425 S Fifth Street in St Charles, NW of I-70 exit 229B, or the first exit west of the Missouri River, eight miles west of the Lambert St Louis International Airport. The room rate is \$104.99 a night for either a standard king or two queens. The phone number to call the hotel directly to make reservations for that weekend is (636) 946-6936 or toll-free at 1-888-274-0988. When calling to make the reservation, you must mention the code IRCA to get the rate. There is a block of 30 rooms reserved at that rate for each night for your choice of a single or double bed, your choice. Reservations must be made by August 7 2018. One note, if all the rooms for this block sell out, then the meeting room at the hotel will be complementary. Registration fee is only \$25 per person with free breakfast. There will be a tentative radio tour of KCLC FM 89.1 at Lindenwood College in St Charles as well as another possible radio tour and a possible tentative radio tower visit. Banquet is out of pocket and the place will be announced at a later date, possibly soon. Your host for the convention is Ken Hawkins. You can either email him at StLouisHerdFan@gmail.com or you can call him on this cell phone at (636) 577-4295. Registration and auction items can be sent to 4034 San Fernando Ln, St Charles MO 63304-2829.

Make your plans and reservations now for the 2018 IRCA convention as this will probably be one of the best! **All DXers are welcome!**

This year's IRCA convention will be an excellent chance to re-connect with old friends and to share DX stories. Speaking of sharing, we issue our annual **call to action** for those who wish to present a talk or paper during the convention. As you know, this can be as *formal* or *informal* as you want. To make it easier, we can provide you with audio-visual support, including slide-preparation and display.

If you're interested in sharing your experiences... or if you want to present questions for discussion that might lead to a better understanding of a particular aspect of your own DXing, please contact Mark Durenberger at Mark4@durenberger.com



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

DATE OF COLUMN: May 05 2018 Column data span: April 21-May 05 2018, Data courtesy of Stationintel.com, FCC database and member contributions.

CALL CHANGES

FREQ	OLD CALL	CITY OF LICENSE	NEW CALL
900	WILC	Laurel, MD	WCLM (confirmed, my local station!-ye ed)
1450	WRNN	Myrtle Beach, SC	WWHK
1550	KZDG	San Francisco, CA	KGMZ

FORMAT, SLOGAN AND SILENT STATUS CHANGES

FREQ	CALL	CITY OF LICENSE	NEW INFORMATION
580	KTMT	Ashland, OR	was ESPN Radio Network, now CBS Sports Radio, old slogan: "ESPN 580 AM – 96.1 FM", new: "The Game 580 AM – 96.1 FM"
590	WWLX	Lawrenceburg, TN	old slogan: "Power 97.5 WLX", new: "The Superstation"
620	WDNC	Durham, NC	was ESPN Radio Network, now CBS Sports Radio, old slogan: "The Buzz", new: "The Ticket"
750	WBMD	Baltimore, MD	now silent
880	KLRG	Sheridan, AR	now silent
900	WNMB	North Myrtle Beach, SC	old slogan: "Rock Without The Edge", new: "99.5 The Drive"
	WATK	Antigo, WI	old slogan: "Classic Hits 98.7", new: "WATK-AM 900-FM 98.7"
970	WYSE	Canton, NC	old slogan: "ESPN Radio 1310 970 and 97.3", new: "ESPN Radio 1310 970 and 102.9"
1000	WCMX	Leominster, MA	now silent
1040	WJBE	Powell, TN	old slogan: "Jammin 99.7", new: "Jammin 99.7FM"
1070	WFLI	Lookout Mountain, TN	was talk, now oldies
1200	WMUZ	Taylor, MI	old slogan: "The Light", new: "The Salt"
1230	WSAL	Logansport, IN	old slogan: "1230 AM WSAL", new: "1230 AM-94.9 FM WSAL"
1240	WULA	Eufaula, AL	now silent
1250	WKBL	Covington, KY	was oldies, now southern gospel
1270	WAIN	Columbia, KY	old slogan: "CBS Sports Radio AM 1270", new: "CBS Sports Radio 1270 AM and 101.9 FM"
1290	WNIL	Niles, OH	adds slogan: "WNIL 1290 The Voice"
1310	KMKY	Oakland, CA	old slogan: "KMKY Radio Punjab", new: "Radio Mirchi 1310"
	WISE	Asheville, NC	old slogan: "ESPN Radio 1310 970 and 97.3", new: "ESPN Radio 1310 970 and 102.9"
1330	WSPQ	Springville, NY	was silent, now oldies, old slogan: "True Oldies", new: "True Oldies 1130 AM"
1340	KQDE	Evergreen, MT	was unknown format, now adult contemporary, adds slogan: "Magic 97.9"
	KUOW	Tumwater, WA	old slogan: "NPR News and Information Station", new: "KUOW News and Information Station"
	KSGT	Jackson, WY	was news/talk, now country, old slogan: "News Radio 590", new: "KJAX Country 93.5"
1350	WZKO	Fort Myers, FL	old slogan: "1350/107.5 Jamz", new: "1350-107.5 Jamz"
1370	WOCA	Ocala, FL	old slogan: "1370 The Source", new: "The Source 96.3 FM and 1370 AM"
	WDXE	Lawrenceburg, TN	old slogan: "Classic Country 1370", new: "The Legend 1370"
1390	KDQN	De Queen, AR	was regional Mexican, now Spanish contemporary Christian, old slogan: "Mexicana Musical", new: "Radio Cristiana 1390"
1450	WMVA	Martinsville, VA	adds slogan: "A Heritage in Martinsville"
1480	WDXW	Bridgeport, AL	was silent, now contemporary Christian
	WKGC	Panama City Beach, FL	was Spanish, now variety
1530	WCKG	Elmhurst, IL	was talk, now Fox Sports Radio

1530	WVBF	Middleborough Center, MA	was reading service, now talk, old slogan: "Radio Reading Service", new: "Hometown Talk Radio WVBF 1530 AM"
1550	KZDG WCLY WHIT	San Francisco, CA Raleigh, NC Madison, WI	was ethnic, now Fox Sports Radio, old slogan: "Radio Zindagi", new: "95.7 FM The Game" was sports, now adult alternative, old slogan: "1550 The Ticket", new: "That Station 95.7" old slogan: "Country Legends Hank AM 1550 And 97.7 FM", new: "Hank AM 1550 and 97.7 FM"
1560	WCNW	Fairfield, OH	was religious teaching, now southern gospel and adds religious teaching as secondary format
1570	WIGO	Morrow, GA	now silent, but changes secondary format to blues
1580	WVZN WVOZ	Columbia, PA Morovis, PR	was silent, now Spanish religion, adds slogan: "Radio Vision Cristiana"
1600	KNWA	Bellefonte, AR	was silent, now Spanish News-Talk, adds slogan: "La Poderosa"
1580	WVZN	Columbia, PA	old slogan: "Boone County Country", new: "Boone County Country 1600AM and 97.5FM" was silent, now Spanish religion, adds slogan: "Radio Vision Cristiana"

MEMBER CONTRIBUTION

Martin Foltz of Mission Viejo CA sends along the following re KZER-1250 Santa Barbara, CA dated 5/5/18:

Heard back on the air last night 5/4 and today 5/5 with Spanish music pgming and Radio Lazer 12-50 slogan. Has been off for months.

Thanks to Martin for the above KZER tip! Well today is Cinco De Mayo and yesterday was Star Wars Day (May The Fourth Be With You), hope all of you had your fill of burritos and tacos! DX starting to slow down now (even my C-Crane let me know by dying and I had to replace the batteries in it over the weekend). Nice weather here finally, temperatures in the 70's. I may be doing some travelling down to Chesapeake VA the week of 5/13-5/19 for business travel; I'll keep you abreast on that. My local station changed calls very recently, see above! 73's. **Bob Wien**



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

For April 2018, May 1 2018

FORMAT CHANGE

1410 BC Vancouver CFTE From Sports (TSN RADIO 1410) to All Business (BLOOMBERG RADIO 1410)

DELETED FROM ISEDC DATABASE

1260 BC Sicamous CBPM 30 watt Environment Canada weather station.

PROPOSED AM TO FM CONVERSION

1550 QC La Romaine CBSI-8 Move to 99.9 with 50 watts.

PROPOSED OWNERSHIP CHANGE

Nationwide 82 FM's/19 AM's From Newcap to Stingray Digital.

Plus some updates from **Jon Perkins**:

730	BC	Vancouver	CHMJ	Weak signal beginning 5/11 for final installation of 50KW tower array partially destroyed by fire. Planned for the full weekend, but could last longer.
980	BC	New Westminster	CKNW	Lengthy power reductions are expected in the near future to complete work on tower sharing with the new ethnic station on 600.
1410	BC	Vancouver	CFTE	Coast to Coast is now being aired late evenings into overnights, after previous C2C affiliate CIRH-FM unexpectedly went dark until the CRTC approves an ownership change.



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

WDXR DEADLINES: May 25, June 8, June 22, July 13, July 27, August 10 and August 24. Please use Eastern Local Time.

REPORTERS FOR THIS ISSUE:

- (RB) **Rick Barton**-PO Box 5503-Peoria AZ 85385 desertmoon_dxshack@inbox.com
GMC Sonoma dashboard rig, Grundig Satellit 205/5000, RF-2200, RS-2000629, outdoor Slinky and Terk loop
- (JCJ) **John Johnson**-2922 S Olivewood, Mesa AZ 85212 John_Johnson@prodigy.net
Icom IC-R75, Wellbrook ALA1530LNP
- (JP) **Jon Pearkins**-Edmonton AB jon@pearkins.com
Sangean PR-D5
- (AWP) **Art Peterson**-Richmond CA awpeteronprf@att.net
JRC NRD-545, Radio Plus Quantum ferrite loop, Bonito Boni-whip active antenna

- 670 KMZQ **NV**, Las Vegas 4/25 0905 suddenly came up from under KLTT with local spots and references. ID by slogan, into syndicated talk show (Mike Gallagher). Good solid on SW-2000629 and Terk loop. (RB-AZ)
- 940 KIXZ **TX**, Amarillo 4/17 at 2300 Medved, ID, News, local spots, return to Medved. Good signal over some co-channel interference. (RB-AZ)
- 970 KFEL **CO**, Pueblo 5/8 mixing with XEJ and KVEM. 0800 with "KFEL 970 AM Pueblo, Colorado Springs" by Spanish accented announcer. First time heard. (JCJ-AZ)
- 980 KSVC **UT**, Richfield 4/26 string of local ad sports, local references, ID by man at the top of hour "Where Utah Comes to talk." Very good over the top of a channel mumble jumble. (RB-AZ)
- 1120 KMOX **MO**, St. Louis 4/25 2230 live p-b-p St. Louis Cardinals baseball team, break to local spots, then faded out for a time. Heard on loop null of KANN. Fair signal until the fadeout. (RB-AZ)
- 1210 KHKR **UT**, Washington 5/3 2058 string of local spots ads for St. George and Cedar City businesses. Good ID by woman on the hour, to ESPN Sports. Very good as local sunset news. I have been hearing this station more recently at this hour, rather than KGYN Oklahoma that usually is the early pre-sunset station. (RB-AZ)
- 1300 KLER **ID**, Orofino 4/29 0145 ID "Today's best Country: Thirteen KLER," dominant ad usual with KKOL off the air, but nulls nicely, to Coast to Coast (KGLO). (JP-AB)
- 1380 KHEY **TX**, El Paso 4/26 2155 break from Sports Talk to string of ad-spots, legal ID at top of hour by man "KHEY El Paso." Very good and solid over the jumble. (RB-AZ)
- 1410 KCAL **CA**, Redlands 5/2 mixing with KIIX, no sign of KERI. 0800 with "KCAL" and mention of Redlands. "La Mexicana" slogan. New for me. (JCJ-AZ)
- 1430 KLO **UT**, Ogden 4/12 at 0810. Had KLO flipped (?) sports talk at tune-in, but nearer bottom of the hour it was evident Hugh Hewitt had just decided to talk Cleveland sports (so, no flip). Meanwhile channel suddenly got buried by unknown co-channel with music that sounded just like the Japanese J-Pop, but with lyrics in Spanish. KLO finally climber up about of the hole at 0841. (RB-AZ)
- 1550 KGMZ **CA**, San Francisco 5/9 0400 format change to Fox Sports, ex—KZDG Radio India running //95.7, KGMZ the Game. Failed to give any part of a legal ID a TOH. Had to tune in during the day to get one, and even that was minutes after the TOH. (AWP-CA)
- 1630 KKGM **TX**, Ft. Worth 4/27 0500 man with religious monologue before the hour to religious music, ID by man at top of hour, web address given, then religious music on thru the hour. Good over XEUT. (RB-AZ)

Thank you WDXR reporters for our column this time! – Nancy 5/11 1900



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

RIDING GAIN

[EB-MO] **Eric Bueneman**, Hazelwood, MO **N0UIHEric@gmail.com**
 CountyComm GP-5/SSB Ultralight receiver, Grundig AN-200 tunable loop, General Electric Superadio III

DOWN THE DIAL

1070 CHOK **ON**, Sarnia. 4/29 fair to poor signal, mixing with WAPI, WFNI and other stations. 0502 briefly atop with Canadian Press news. [EB-MO]
 1150 KWKY **IA**, Des Moines. 5/4 fair to poor signal, mixing with other stations. 0458 noted with *The Lord's Prayer* and promos. [EB-MO]
 1370 KWRT **MO**, Boonville. 4/29 fair to poor signal, mixing with KDTH, WLTH, WSPD. 0523 noted with Classic Country format, "AM 13-70 KWRT" ID. [EB-MO]
 1430 WDAL **GA**, Dalton. 5/7 fair to poor, mixing with WYMC and other stations; local KZQZ off. 0420 noted with Country format, "98-point-Three Bulldog Country" ID into local spots. [EB-MO]
 1550 WPFC **LA**, Baton Rouge. 5/10 fair to poor signal, mixing with KESJ, KYAL, WIGN. 0520 noted with Urban Gospel format and local spots. [EB-MO]
 1590 WAIK **IL**, Galesburg. 5.8 good to fair signal over WNTS and other stations. 0437 noted with "Oldies 15-90" ID, mention of western Illinois, into Oldies format. Change from a News/Talk/Sports format. [EB-MO]

FLASHBACK

50 Years Ago – May 18 1968 issue of "DX Monitor" ... **Mike Northam** of Beaverton OR told about his trip to the East Coast and bringing back a Dumont 304H 'scope on the plane ... **Larry B Godwin** of Littleton CO told of his trip to Amarillo and a visit to KDJW where he learned the previous Chief Engineer threw out reception reports as he received them. // **25 Years Ago – May 15 1993** issue of "DX Monitor" ... This issue was dedicated to **Ric Heald** who had died last month ... **Patrick Martin** of Seaside OR discussed his talk with the Chief Engineer of Shaw Radio in Alberta, Canada ... **Mike Sanburn** of Bellflower CA suggested an award such as the TVA be created and dedicated to **Ric Heald** ... **Larry Godwin** of Missoula MT ordered a Kiwa Loop ... **Ernest Cooper** of Provincetown MA mentioned his total veries was 4,428 ... **Rick Evans** of Milwaukee WI told about his trip to southeast Alabama and his DX from there.

OPEN MIKE

Thanks to Eric we have a column this week. This column was typed 5-11-18. 73, John



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

TUNING THE DIALS THIS ISSUE:

(KK-VA) **Kraig Krist** (KG4LAC), Manassas VA
 Winradio G33DDC software-defined receiver, Wellbrook ALA1530S+ Imperium loop
 (PS-ON) **Paul Snider**, Welland ON, Canada **paulisnider@yahoo.ca**
 Elad FDM-S2 software-defined receiver, Pixel RF Pro-1B loop, MFJ-1020C as a tuner
 (RW-MD) **Robert Wien** (KG6RJW/3), Laurel MD **wienbob@aol.com**
 Ford Fusion car radio

ACROSS THE DIAL

620 WSNR **NJ**, Jersey City – 4/27 0500 noted with "AM 620 WSNR; this is AM 620 WSNR Jersey City" legal ID by a male announcer. The signal was mixing with unidentified stations carrying a talk format and vocal music. (KK-VA)
 640 WMFN **IL**, Peotone – 4/27 0500 noted with vocal music in Spanish, followed by this announcement in English by a male announcer: "WMFN 640 AM has available a few good hours of air time for good programs to serve the community. Radio is better than ever and... audience that listens to what you have to say. To learn more about this exciting radio broadcasting opportunity by calling WMFN 640 AM at (248) 557-3500. You're listening to 640 AM WMFN... (Peotone) Chicago. The same announcement was repeated several times during the time I listened; it's the first time I've heard this station since it moved from Zeeland MI. The signal was noted mixing with WCRV, WHLO and WWJZ. (KK-VA)
 670 WWFE **FL**, Miami – 5/4 0505 noted with music and talk in Spanish, "This is WWFE 670 AM Miami" legal ID in English by a male announcer. The signal was noted mixing with WSCR and an unidentified Spanish language station. (KK-VA) (Your Spanish station mixing with WWFE and WSCR is Radio Rebelde from Arroyo Arenas, Cuba – eb)
 900 WCLM **MD**, Laurel – This station has new calls, **ex-WILC**. Their transmitter is three miles northeast of my apartment. (RW-MD)
 1210 WJNL **MI**, Kingsley – 4/29 2225 noted with local spots, a "WJML" ID, CBS News update, weather forecast, mention of "from the WJML Weather Center"; simulcasting WJML 1110 Petoskey MI. A fair to poor signal was noted under WPHT; probably on day power. (PS-ON)
 1470 WGNR **IN**, Anderson – 5/2 2314 noted with Contemporary Christian music in English, mention of "Moody Radio" and a "WGNR" ID at 2315 into more music; confirmed by Web stream of WGNR-FM 97.9 on the Moody Radio Web stream; change from Radio Moody Español. A fair at times to very poor signal, mixing with WNYX and other stations. (PS-ON)
 1590 WAIK **IL**, Galesburg – 5/5 2335 noted with Oldies format, weather forecast, "Oldies 1590" slogan, into another music set including a selection from Tommy James and The Shondells, "WAIK" ID at 2345 before another music set. A fair at times to very poor signal was noted, mixing with other stations. (PS-ON)
 1590 WFTH **VA**, Richmond – 5/7 2217 noted with assorted styles of music, "WNRN" ID at 2235, more music and another "WNRN" ID at 2245; not heard very often here. A fair at times to very poor signal was noted, mostly under WAKR; confirmed via Tune-In Web stream for WNRN. (PS-ON) (This was more than likely on day power – eb)
 1600 WEJS **PA**, Jersey Shore – 5/2 2243 noted with a "News/Talk 104.1" ID at 2244 into The Jim Bohannon Show. A poor to very poor signal was noted, mostly under WWRL. (PS-ON) (104.1 refers to W281AR Williamsport PA – eb)

UnID/unID HELP

690 unID 5/4 0627 noted with assumed "WBGQ" ID by a male announcer. WBGQ is an FM station on 100.7 MHz somewhere in Tennessee. I'm not sure what I'm hearing. The signal was noted mixing with CKGM, WQNO, Radio Progreso and unidentified stations with rock and roll music and Christian talk. (KK-VA) (WBGQ is in Bull's Gap TN, near Johnson City and Kingsport. The closest 690 is WZAP Bristol VA, which is listed as Southern Gospel – eb)
 1230 WESX **MA**, Nahant – I was doing research into Kraig Krist's unidentified station on 1230 in 55-30; I did a search on the Internet on "Burlington Cal Ripken baseball"; I found out on the BBSA Online Web site that the league is actually in Burlington MA. Doing a search of radio stations in the area, yielding WESX in Nahant, 11 miles from Burlington. They seem to be Spanish; I don't know if they broadcast at all in English. (RW-MD) (The latest NRC AM Radio Log lists WESX as a mix of Ethnic and brokered programming; this may have been a time buy. Many sports teams, from Little League all the way up to the majors, buy air time – eb)

EDITOR'S NOTES

Thanks to Kraig and Paul for their logs, and to Bob for the information on the call change and help with Kraig's tentative log on 1230 last issue. There's still time to make your plans for the IRCA Convention in Saint Charles MO! 73 and good DX from N0UIH, the Florissant Valley Dial Twister.



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

Deadline – Sunday Midnight Central Time.

700 **MÉXICO** XEGD, Hidalgo del Parral, Chih. APR 15 1202 – XEGD with full ID, still calling itself 'La Poderosa', which 5/1 kW is not – gotta think big, in Hidalgo del Parral. Most of the other lowband XEs are fading out by now after our sunrise 1158 UT. [GH-OK]
 1240 **MÉXICO** XEWG, Ciudad Juárez, Chih. APR 28 1201 – out of Mexican National Anthem with "Ciudad Juárez, Chihuahua XEWG 12-40 AM" ID. Good signal with all others nulled. 77th Mexican station logged from Mesa. [JcJ-AZ]

CONTRIBUTORS

GH-OK **GLENN HAUSER**, Enid OK (via direct and DXLD eGroup)
DX-398 or PL-880; NRD-545 with ALA-330S inside E-W or inside random wire N-S; ICR-75 with E-W longwire; FRG-7 with NW-SE short wire
JcJ-AZ **JOHN C JOHNSON**, Mesa AZ
Icom IC-R75, Wellbrook ALA1530LNP

Many thanks to Phil for assisting with the last column and special thanks to this week's reporters.

73 Brandon



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

Highlights from Gary DeBock in the Cook Islands

All recordings made with a 7.5" loopstick C.Crane Skywave SSB Ultralight <https://dreamcrafts.box.com/s/oeph12ru7ejk31saxdq2tijqx9db0ros>

5/4. Chasing DX from the center of Polynesia was an ideal chance to track down exotic DU island stations that rarely, if ever, show up on the west coast of North America. From my location on the Aitutaki lagoon beach (in the Cook Island group, 2600 miles due south of Hawaii) obscure stations like 630-Cook Islands and 990-Fiji Gold were pounding in at S9 levels every evening, while other exotic island stations were the strongest ones on the MW band. Phenomenal ocean beach propagation was routine – except that the North American pest stations (that TP-DXers love to hate) never managed even a whimper.

Close-in DU propagation was so favorable that only the 7.5 inch loopstick CC Skywave SSB Ultralight was necessary to track down most of these exotic stations at S9 levels, and make all the MP3 recordings linked below. The vacation was also an ideal chance to investigate and record what is possibly the most obscure MW-DX station still transmitting in the Pacific – 630-Radio Cook Islands, with an underperforming 2.5 kW transmitter in Rarotonga. Overall the entire experience was a real thrill for a west coast DXer who rarely hears these stations, let alone at such powerful levels.

- 540 SAMOA** 2AP, Apia, 5 kW. Located only 866 miles (1394 km) from my DXing site, this was always an S9 powerhouse every evening. Samoan island music was common, along with male and female Samoan speech. The station does have some issues with the transmitted signal cutting out, an intermittent microphone and (occasionally) the announcer allowing 30 seconds of dead time after a song, as in the third MP3 below. Male Samoan speech, background music and advertisement at 0718 on 4/9 <https://dreamcrafts.box.com/s/vfsisz3n9gx6869eejbh116y3dwnrn20>. Samoan news (with mentions of Samoa at the 1 second and 9 second points) at 0702 on 4/9 <https://dreamcrafts.box.com/s/3y9puecegk6b6ikgppv9s8coxgq23ifam>. Beautiful Samoan island music at 0716 on 4/9, followed by 28 seconds of dead time. When programming resumes with an advertisement the transmitter (or microphone) cuts out twice within 30 seconds, with the microphone apparently having an intermittent low output issue <https://dreamcrafts.box.com/s/akv3p4ds5rnz0kcta1k4rixnht5c3hqf>.
- 558 FIJI** Radio Fiji One, Naulu, 5 kW. Both this native language station and its English-oriented sister station on 990 were solid powerhouses each evening, as well as during sunrise enhancement sessions. S9 signals were the norm, and a wide variety of local island music was the usual format. Typical Fiji island music on the station's overnight program at 1605 on 4/9 <https://dreamcrafts.box.com/s/uii5tnz71kfie3mtznaiey0taowcf0b3>. Island music and the usual ID, "Radio Fiji One, Na Domoiviti" at the 24 second point of this recording at 1622 on 4/10 <https://dreamcrafts.box.com/s/uii5tnz71kfie3mtznaiey0taowcf0b3>. Apparent storm coverage of Tropical Cyclone Keni at 0718 on 4/9; the cyclone caused extensive damage on Fiji <https://dreamcrafts.box.com/s/hj0vi3yc9z2t8pll2vs8kgty6cu6i81>.
- 621 TUVALU** Radio Tuvalu, Funafuti, 5 kW. Usually very strong but occasionally pestered by 3RN QRM, this exotic island station typically hit an S9 level about an hour after local sunset. A lot of island music is played by the usual female announcer, featured in this recording in her native language at 0720 on 4/12 <https://dreamcrafts.box.com/s/ht4fhwj9htzcrtmuby6930664yc9uj56>.
- 630 COOK ISLANDS** Radio Cook Islands, Rarotonga, 2.5 kW. Located 164 miles (264 km) south of my DXing site, it was pretty obvious why this obscure station is so tough for distant DXers to track down. After sunset it had multiple strong co-channels on the frequency (RNZ and ABC), and even just after its sign on at 1556 the 5+1 pips from RNZ were clearly audible at 1600. The station has multiple issues, with a disastrous live microphone, audio amplitude varying widely between different programs, noticeable audio hum on the signal, etc. It signs on at 1556 and signs off at 0958, unless there is a weather emergency in the area (as there was with tropical cyclone Keni on April 9), in which case it switches to an RNZ satellite feed overnight until sign on at 1556 (thanks to Bryan Clark for ID of the station). The station is obviously a low budget operation, with no special sign on or sign off message, automated time mentions, and (typically) strings of recorded island music with no live announcer. The only live announcers I heard during the week were during a Sunday morning recorded church service on April 8 and just after sign on (with the dreadful microphone) on April 12th. Here is the full sign on routine at 1556 UTC on April 12, with the horns, apparent national anthem, English ID, drums, and finally the live female announcer with the dreadful microphone (cutting off almost all the high frequencies, resulting in legendary poor audio). The weakness of the signal at 1600 allows the 5+1 time pips from RNZ to be clearly heard at the 4:30 point in the recording <https://dreamcrafts.box.com/s/xqonh9iz57w22ebzxwz42krugu3rvykyx>. This recording of a church service at 1724 on April 8 was the only one I made on Rarotonga, the site of the transmitter. It features a live male announcer at 1:10 into the recording with an English "It's 7:25, that's your time with your National Voice" ID. At 1:44 into the recording one of the station's major issues is on full display – the sudden amplitude increase of the transmitted audio <https://dreamcrafts.box.com/s/rfe2u3m3px4xmossujtxilz8vlk3jtg>. During most hours of the day the station runs a fully automated operation, with strings of recorded island music interspersed with recorded male-voiced station ID's and female-voiced time checks, as at 0706 on 4/9 <https://dreamcrafts.box.com/s/oegfjznhbgw0evy9xuzqbu428xd31l4y>. There is no special sign off message at 0958 (2358 local time), when the power is cut. There is a recorded station ID and time check at 0957, though, as in this recording at 0956 on April 9th. The weakness of the station around local midnight can be heard, with a strong co-channel pestering the signal before the unceremonious switch to the RNZ satellite feed at 0959. This was due to the tropical cyclone Keni weather emergency in the South Pacific area on April 9th; on normal days the transmitter power is simply cut off at 0958 (2358 local time), with no warning or fanfare <https://dreamcrafts.box.com/s/bqwt5lm0ezhdyqayqkfjij8jfbirysar>.
- 846 KIRIBATI** Radio Kiribati, Christmas Island, 10 kW. Not quite as strong on Aitutaki as it was in Kona, Hawaii last December, this station was one of the first to fade in at sunset, but was pestered by ANZ co-channels later in the evening. It has apparently corrected the transmitter cutout issues noticed last December, and features an open carrier overnight after sign off around 1006. The time delay with its 1440 parallel wasn't checked during this trip (mainly because both of these Kiribati stations had trouble holding their frequencies), but in December it was very unpredictable. Since the 846 transmitter apparently doesn't sign on until it gets the programming from 1440 in Tarawa (significantly to the west), 846-Kiribati was silent during my sunrise DXing sessions in the Cooks from 1600-1700, although the semi-local 630-RCI (at approximately the same longitude) signs on at 1556. The best time to receive the station was around local sunset, before the ANZ co-channels showed up. Here it was at 0650 on 4/9, playing some American country music (a format which seems very common on the playlist) <https://dreamcrafts.box.com/s/e965m3zcy13t3auije44zn344x5q6fw9>. Later on in the evening it was pestered by multiple ANZ co-channels, as demonstrated when the loopstick bearing is shifted at the 16 second point in this recording at 0834 on 4/10 <https://dreamcrafts.box.com/s/f6kd11wrj2lunrcjz1ss1nnnr9i8v39m>.
- 900 FIJI** Radio Fiji Two (Fiji Gold), Suva, 10 kW. The English-language sister station to the native language 558-RF1, this interesting station plays classic pop hits, and is a favorite with expats and NZ listeners alike. Very tough to receive on the west coast because of its "domestic" frequency and the 5 kW Hawaii co-channel KIKI, its signal had no trouble pounding in to the Cooks at an S9 level each evening, although the 1 kW Kiwi co-channel TAB Trackside did attempt to make it somewhat of a horse race at times. Because of Tropical Cyclone Keni there was extensive weather coverage on the station during my visit, which is reflected in all of the MP3's linked below. Oldies music and tropical cyclone weather update at 0712 on 4/10, after the storm had just passed through the center of Fijian waters <https://dreamcrafts.box.com/s/b5may3rbr5kkuwubus18lr4hala57x1vb>. Oldies music, local advertisements and Fiji news at 0700 on 4/12, including the President's warning against corruption in repair construction contracts after the tropical cyclone <https://dreamcrafts.box.com/s/rs70dcbhco94arepnnv60thl3b5z27hw>. Long version of the first MP3, as co-channel TAB Trackside (1 kW in Nelson, NZ) tries to make it a horse race with Fiji Gold at 0710 on 4/10, but folds in the clutch to Melissa Etheridge <https://dreamcrafts.box.com/s/devsen4lrp2pul0m92m0r638yb6vj79i>.
- 1017 TONGA** A3Z (Tonga BC), Nuku'alofa, 10 kW. Much stronger in the Cooks than in Hawaii, this station was only 1014 miles (1632 km) from my DXing site on Aitutaki. Coverage of Tropical Cyclone Keni dominated the programming, which featured both English and native language updates on the storm. Despite the station's S9 strength it was easily nulled out with the Ultralight's loopstick, bringing in the 2.5 kW Radio Sport co-channel in Christchurch (as demonstrated at 1:23 into the first video linked below). In a Tropical cyclone update in English and Tongan languages at 0712 on 4/9, Radio Tonga is nulled out by the Ultralight's loopstick at various points, bringing in the Kiwi co-channel Radio Sport (2.5 kW) at an equal S9 level around the 4 minute point <https://dreamcrafts.box.com/s/h4hbmh1ro3xydm0h6g4tlfkwxq3mjd>. Tongan island music at S9 level at 1607 on 4/11, but with Yankee-accented Radio Sport (relaying Fox Sports Network) and another DU English co-channel (2KY?) <https://dreamcrafts.box.com/s/3771cas3q9mdqvsn8phy2c96esghlchi>.

- 1098 **MARSHALL ISLANDS** V7AB, (Radio Marshalls) Majuro, 25 kW. Not nearly as strong as in Hawaii, this was another island station easily nulled out with the Ultralight's loopstick to bring in an S9 Kiwi co-channel (Newstalk ZB). It was strongest prior to sunset in NZ, but couldn't hold the frequency after that unless the Kiwi station was nulled out (as demonstrated in the MP3 linked below). Radio Marshalls and Newstalk ZB fight it out at 0724 on 4/9, with the island station holding the frequency as long as the loopstick favors it (and getting plastered otherwise)
<https://dreamcrafts.box.com/s/32p2a8stc0ci9m1f7cyrmxkpkpa9rhk8>. Radio Marshalls plays some beautiful music, which made for enjoyable listening as long as Newstalk ZB was nulled out (as at 0746 on 4/10) <https://dreamcrafts.box.com/s/3f589i8odtcu98ky45agyz4ggqx29qzg>.
- 1440 **TARAWA** Radio Kiribati, Bairiki, 10 kW. Reasonably strong on most nights in the Cooks, although occasionally (and amazingly) troubled by the flea-powered (200w) Kiwi co-channel Te Reo O Tauranga Moana. Having a variable-delay parallel arrangement with its 846 kHz sister station on Christmas Island, all of the programming originates from this station. The music format features a lot of Kiribati island tunes, along with a surprising amount of American country music. Radio Kiribati with the usual female and male announcers at typical strength at 0708 on 4/9
<https://dreamcrafts.box.com/s/bwsm9wdte9qap0anqw3wt8rtsg9d9j0>. One of the distinctive ways to identify the station is the 4 bong time signal on the half hour, as at the 13 second point in this recording at 0730 on 4/10 (with the male announcer)
<https://dreamcrafts.box.com/s/0jdxn3mm3v1da9a659nvyvd47ek7qryo>. The usual female announcer has a strong signal until around 51 seconds into this recording at 0805 on 4/11, when the 200w Kiwi co-channel Te Reo O Tauranga Moana provides some serious competition in Maori (thanks to Theo for language identification) <https://dreamcrafts.box.com/s/f9m9z6aqpacsolit5i3eevgsq72dnab>.

5/9. Aitutaki Island in the Cook group is 2600 miles (4184 km) due south of Hawaii, and the closest point on the USA mainland is 4550 miles (7323 km) away. There was a straight ocean path to both of these areas from my DXing spot on the lagoon beach, resulting in several strong transoceanic signals across the Pacific.

Because of various tourist activities scheduled by my wife around sunset and a lingering mindset that North American signals weren't exactly top priority DX to chase, no deliberate effort was made to go after these stations while in the Cook Islands. Despite this 7 USA mainland stations and 2 Hawaiian ones crashed the Kiwi sunset skip DXing sessions about 2 hours after sunset, wiping out the adjacent 9 kHz-split frequencies that I was trying to receive. The most distant of these was 1170-KFAQ in Tulsa, Oklahoma, at 5642 miles (9080 km). All were received on the 7.5" loopstick CC Skywave Ultralight alone, which provided good reception of these stations because the reciprocal bearing of New Zealand was ideally directed at North America on the 7.5" loopstick – so that the DX from both directions was received at optimal strength concurrently.

No doubt many more of these North American stations could have been received if a deliberate effort had been made to go after them, especially around sunset if the 5 inch "Frequent Flyer" FSL antenna had been set up to provide a gain boost (as it was for long range Asian DX, at sunrise). Strangely enough, none of the usual TP-DXing pests in Vancouver, Seattle, Portland or San Francisco made this Cook Island North American DX list (although to be honest, I really didn't miss them at all!)

- 610 **KEAR** San Francisco CA (5 kW at 4610 miles/7419 km). "Family Radio for the West Coast," Christian religious format received at fair level at 0835 UTC on 4/12 <https://dreamcrafts.box.com/s/jq81e11f3tq5o4slbe6ytsv477ffwg36>.
- 640 **KFI** Los Angeles CA (50 kW at 4570 miles/7355 km). Strong (S9) level with commercial ads at 0633 UTC on 4/12
<https://dreamcrafts.box.com/s/vxrj7014eqhrbok88pw8a3e1y32qerka>.
- 1070 **KNX** Los Angeles CA (50 kW at 4570 miles/7355 km). Powerful (S7) level with "1070 Newsradio" ID at 3 seconds, followed by national news at 0730 UTC on 4/10 <https://dreamcrafts.box.com/s/81cy1nzyr4dokk489sdgh34is3lp4ww>.
- 1160 **KSL** Salt Lake City UT (50 kw at 5144 miles/8278 km). Powerful (S7) level with weather and station ID at 33 seconds, followed by public service ads at 0901 UTC on 4/12 <https://dreamcrafts.box.com/s/4ymewhcz6x28hikjcd77y99e85ji2u4>.
- 1170 **KFAQ** Tulsa OK (50 kW at 5642 miles/9080 km). Strong signal over apparent DU English co-channel with "Coast-to-Coast" ID at 44 seconds; thanks to Richard Allen for confirming the broadcast of the program on the station at 0845 UTC on 4/12
<https://dreamcrafts.box.com/s/u5gtxk6l5qgggu2xuf2q09thdnj44sfo8>.
- 1430 **KMRB** San Gabriel CA (9.8 kW at 4577 miles/7366 km). Cantonese Chinese format at S7 level with commercial ads at 0830 UTC on 4/12
<https://dreamcrafts.box.com/s/au8ru485mfr57cvsp0oqp4zjvq5pekg>.
- 1640 **KDIA** Vallejo CA (10 kW at 4633 miles/7456 km). "1640-KDIA" ID at 6 seconds with Christian religious format at S5 level at 0807 UTC on 4/10
<https://dreamcrafts.box.com/s/k3a631palnk7ntv4xsgjrjnv8bcio611>.

HAWAIIAN STATIONS

As with North American DX, these stations were not exactly high priority DX in the Cook Islands, and no special effort was made to go after them. After two Kona, Hawaii DXpeditions in 2017, there was a lingering memory of too many Hawaiian MW stations running too much power in too few small, congested communities.

- 590 **KSSK** Honolulu, Oahu (7.5 kW at 2781 miles/4476 km). "Variety, 92.3, KSSK" ID at 2 seconds, followed by pop music at 0701 UTC on 4/10
<https://dreamcrafts.box.com/s/1j20fcstcfhnoon4cq46kctber04ztzt>.
- 1420 **KKEA** Honolulu, Oahu (5 kW at 2781 miles/4476 km). ESPN sports format at strong level at 0715 UTC on 4/11
<https://dreamcrafts.box.com/s/dz0s8yxd9l7cttwaeeanqlwm5c71q>.

73 and Good DX, **Gary DeBock** (DXing in Aitutaki, Cook Islands from April 8-13, 2018)

DX from Walter Salmaniw (MV Noordam South Pacific)

5/13 (SW and FM loggings removed – pb). After a week at home, I've had the opportunity tonight to summarize my DX findings on SW, MW, and FM during my 40 day trans-Pacific cruise from Sydney, Australia to Vancouver BC. DXing was, at times, difficult due to extreme weather, salt water infiltration to the ALA 100 head unit, and high winds buffeting the antenna, and finally noise from the ship, and too little time to devote to the radio. There IS a lot to do onboard the ship. In any case, I hope my report might be of some interest to you. Any errors or omissions are mine alone! Overall, the SW bands were quite lively around Australia and New Zealand, but utterly void of any daytime signals when cruising to the north. RNZI and the occasional CRI transmitter are the only exceptions. Sad, but true, but reaffirms the importance of RNZI to the Pacific Islanders, since the demise of Radio Australia. Likewise, the AM band is virtually dead during daytime hours as we sailed north of Australia. Even at night, once underway north-west of Australia, the MW band was not very strong all the way to Hawaii. Sailing the Tasman, and around New Zealand, however, signals were very strong! 73, Walt Salmaniw

- 540 **AUSTRALIA** 4QL, Longreach, ABC Western Queensland. 1100 3/31. Good reception with some splatter with a play by play of some sport, with one side being Melbourne. //774. No ID at the TOH, though, so a presumed logging. Co-channel to another low level English speaker, which may very well be 7SD Heart 540 from Scottsdale Tasmania.
- 558 **FIJI** RF1, Nailu. 0658 4/20. Good reception of Radio Fiji One, in Fijian. No time pips at the TOH, despite it being 7:00 PM local. Not particularly strong for being probably 50 miles away, after dark!
- 612 **AUSTRALIA** 4QR, ABC, Brisbane. 0357 4/15. A total void in MW signals at 3:00 PM local a couple of hundred km south west of New Caledonia where we are headed. However, 4QR is still audible at fair strength, which roughly is in line with the WCNA, and perhaps why we often receive 612 so well back home!
- 657 **NEW ZEALAND** AM Network/Star, Tauranga/Wellington. 1001 4/4. Parliamentary broadcast to 10:01 UTC (10:01 PM local), then into Star network after ID and news, and weather. American accented preacher followed. Living Truth program, which is actually out of Toronto, Canada. Very good reception. A number of // frequencies.
- 690 **HAWAII** KHNR, The Answer, Honolulu. 2143 4/27. By last night (36 hours south of the Hawaiian Islands), the Islands stations became totally dominant (although, 846 Christmas Island, Kiribati was also very strong). The strongest among them all is KHNR. This morning, (24 hours out), many Hawaiians continued in daylight, still several hundred miles south of the Islands. Next strongest is KSSK, 590 with 7.5 kW from Honolulu as well. Both stations announce FM frequencies. Will be there be a time of no AM stations in Hawaii? Think about it. The most isolated islands in the world, and each primarily broadcasting to its own island. FM makes a lot of sense in this market.
- 819 **AUSTRALIA** 2GL, Glen Innes, ABC New England North West. 1130 3/31. Good reception with Saturday Night Country program. // to stronger 810 2BA ABC SE New South Wales in Bega with 10 kW (presumed). Also co-channel to presumed RNZ National from Tauranga with 10 kW with Easter programming.
- 830 **HAWAII** KHVH, Honolulu, Newsradio 830. 0857 4/29 Art Bell's Coast to Coast programs from the past. iHeart radio ID before 0859. Fair reception only, and best using LSB to avoid powerful 940 KKNE splatter. Huh, KHVH ID at 09:00. So not sure whether this is generated in my Elad SDR, or a real carrier? 830, the nominal frequency is exceptionally strong at S9 + 40. This wouldn't occur on my Perseus. Not overloading and I'm using the Attenuator, besides. After the news, a current CTC program.
- 864 **AUSTRALIA** 7RPH, Hobart, Print Radio, Tasmania. 1001 4/1. Excellent reception with a radio play starring Andy Rooney from 1940 about the young Tom Edison. Co-channel Newstalk ZB with 10 kW from Invercargill, much weaker, but at times fading up to almost good level. Old time radio at its best!

- 990 **FIJI** Naulu, RF Gold 0702 4/20. Good reception, at same level as 558. Once again, not particularly strong but improving with time. News at 07:14 check (local). Business news at 07:24. Sports at 07:26. Once we arrived in the Kadavu Island group of Fiji, and specifically, Dravuni Island, both Fijian MW frequencies came in strongly all day. This island group is SE of Suva, and perhaps 150 miles away. Wonder whether the antenna is directional or not for these services? Nil else is present on the band, otherwise.
- 1017 **NEW ZEALAND** Christchurch, Newstalk ZB. 0813 4/4. Listed as Radio Sport in the Nov 2017 PAL, but clearly carrying Newstalk ZB programming, with ID after a lengthy musical piece. We're sailing about south of Christchurch, having left Akaroa, New Zealand's oldest community. Good reception, with just a hint of a co-channel (likely Australia or maybe Tonga).
- 1125 **VANUATU** YJB2, Emten Lagoon (Point Vila) Radio Vanuatu. 1935 4/17. Confirming that 1125 is on the air. Heard as we arrived in Port Vila this morning with news in Bislama. Excellent modulation. Into local music at 19:37. For what it's worth, the AM sync function is locking on 1124.998 kHz. Sure sounds like a full 10 kW as listed! No sign of SW parallel frequencies of 3945 nor 7260 while in port, checking early in AM and at 15:30 local. Hum noted on transmitter when male describing Cyclone Pam damage in Bislama this afternoon, after returning to the ship. Our tour driver again mentioned that 1 minute call costs about \$0.15 (not sure whether Aus, or USD), so also not cheap at all on this island. Radio lives! I noticed his music was via a USB stick in the small Japanese van.
- 1224 **AUSTRALIA** 3EA, Melbourne. 1258 3/31. Very strong at this time. ID for BBCWS before the TOH. Ethnic music which caused me to assume it was 3EA. Co-channel likely TAB Trackside Radio in Invercargill with 2 kW. Less likely 2RPH Sydney.
- 1242 **NEW ZEALAND** 1XX, Whakatane. 0722 4/8. One Double X ID and into local ads. Fair to good level from Tauranga, New Zealand.
- 1251 **AUSTRALIA** 2DU, Dubbo. 1242 3/31. Nice ID after several local ads mentioning Dubbo. Then, 'First in your community, 2DU'. Fair to good reception, co-channel with Rhema.
- 1305 **NEW ZEALAND** Dunedin, Radio Dunedin. 0722 4/2. Nice ID as, 'Good talk. Good music. Radio Dunedin'. Heard as we sailed near Invercargill. I had thoughts of Arthur Cushen, arguably the most famous DXer ever!
- 1413 **AUSTRALIA** 2EA, Newcastle, SBS Radio 1. 0936 4/1. SBS Radio IDs in Vietnamese at this time at fair/good level, with much weaker unid co-channel in English, which faded up as I continued to listen, came up with Newstalk ZB ID at 09:38, making it Tokoroa with 2 kW.
- 1494 **AUSTRALIA** 2AY, Albury. 1236 3/31. Nice ID following several local ads, including for a dairy. Good reception, especially after 1238 (wonder whether the ship turned?). Co-channel noted, likely Star from Hamilton, NZ with 5 kW with Christian sounding music.
- 1566 **AUSTRALIA** 3NE, Wangaratta, Solid Gold, 15-double-6. 0946 4/1. Local ID for 15-double-6, and ads for businesses in Wangaratta. Good reception.
- 1575 **NEW ZEALAND Unid.** 1900 4/2. Very strong reception of a station relaying the BBCWS, unlisted in the November 2017 PAL. I suspect it's located in Dunedin (where we are almost docked at Port Chalmers, Dunedin's port).
- 1593 **AUSTRALIA** 3RG, Melbourne, Rete Italia. 1155 3/31. Excellent reception with soccer play by play in Italian. Mentioning Roma and Bologna (I think).
- NEW ZEALAND** Christchurch, Coast. 0918 4/4. Excellent reception with EZL oldies, and an American accented DJ.



SPORTCHANNELS IRCA – Compiled by: Eric Bueneman (NØUIH)
E-mail: n0uiheric@gmail.com

Welcome to another edition of SportChannels! Baseball season is under way, and we're wrapping up the Major League Baseball network lists with the American League Central and National League Central. The National League Central is the division my hometown team, the Saint Louis Cardinals, play in. Flagship stations are in **boldface** type.

AMERICAN LEAGUE – CENTRAL DIVISION

CHICAGO WHITE SOX (English) Ed Farmer, Darrin Jackson, Web: whitesox.com

720 WGN Chicago, IL

No radio network information available.

LOS WHITE SOX DE CHICAGO (Spanish) No play-by-play personnel information available, Web: loswhitesox.com

1200 WRTO Chicago, IL only

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

AM	1390 WBLL Bellefontaine, OH	FM	100.9 W265DL New Philadelphia, OH (3)
570 WKBN Youngstown, OH	1400 WMAN Mansfield, OH	92.7 WQEL Bucyrus, OH	100.9 WBNO-FM Bryan, OH
930 WEOL Elyria, OH	1430 WFOB Fostoria, OH	92.9 W225CM Delaware, OH (1)	100.9 WJAW-FM McConnelsville, OH
970 WFUN Ashtabula, OH	1450 WJER Dover, OH	93.1 WWSR Lima, OH	101.9 W270CI Uhrichsville, OH (4)
1100 WTAM Cleveland, OH	1450 WLEC Sandusky, OH	93.5 WBNV Barnesville, OH	104.5 WQKT Wooster, OH
1260 WRIE Erie, PA	1480 WHBC Canton, OH	95.3 WLKR-FM Norwalk, OH	105.7 WXZX Hilliard, OH
1300 WMVO Mount Vernon, OH	1490 WMRN Marion, OH	98.3 WMAN-FM Fredericktown, OH	106.9 W295CI Urbana, OH (5)
1330 WFMJ Findlay, OH	1540 WBTC Uhrichsville, OH	100.7 WMMS Cleveland, OH	
1340 WKSJ Jamestown, NY	1550 WDLR Delaware, OH	100.9 W265DJ Mount Vernon, OH (2)	
1370 WSPD Toledo, OH	1590 WAKR Akron, OH		

Relays: 1) WDLR 1550, 2) WMVO 1300, 3) WJER 1450, 4) WBTC 1540, 5) WBLL 1390

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

AM	1310 WCCW Traverse City, MI	FM	99.7 W259CO Holland, MI (3)
590 WKZO Kalamazoo, MI	1320 WDMJ Marquette, MI	92.1 WCSR-FM Hillsdale, MI	100.7 W264CF Saint Ignace, MI (4)
680 WDBC Escanaba, MI	1330 WTRX Flint, MI	92.7 WLKI Angola, IN	100.7 WWTH Oscoda, MI
790 WSGW Saginaw, MI	1340 WMBN Petoskey, MI	93.7 WKAD Harrietta, MI	101.1 WGRY Roscommon, MI
1050 WTKA Ann Arbor, MI	1360 WKYO Caro, MI	95.3 WBCK Battle Creek, MI	101.9 W270CJ Jackson, MI (5)
1090 WKBZ Muskegon, MI*	1370 WGHN Grand Haven, MI	95.7 W239CJ Benton Harbor, MI (1)	102.3 W272CR Petoskey, MI (6)
1230 WBET Sturgis, MI	1380 WPHM Port Huron, MI	96.1 WMAX-FM Holland, MI*	103.7 WCSY-FM South Haven, MI
1230 WSOO Sault Sainte Marie, MI	1400 WCCY Houghton, MI	96.1 WMTR-FM Archbold, OH	104.9 WQBX Alma, MI
1240 WCBY Cheboygan, MI	1400 WSJM Saint Joseph, MI	96.7 WRGZ Rogers City, MI	105.3 WKHM-FM HD2 Brooklyn, MI
1240 WIAN Ishpeming, MI	1450 WHTC Holland, MI	97.1 WXYT-FM Detroit, MI	106.9 WOOD-FM Muskegon, MI**
1240 WJIM Lansing, MI	1450 WMIQ Iron Mountain, MI	97.7 WMLQ Manistee, MI	107.5 WCCW-FM Traverse City, MI***
1270 WMKT Charlevoix, MI	1450 WNBV Newberry, MI	97.7 WTGV-FM Sandusky, MI	107.7 W299BE Big Rapids, MI (7)
1270 WXYT Detroit, MI	1460 WBRN Big Rapids, MI	98.7 WLDN Ludington, MI	
1300 WOOD Grand Rapids, MI**	1590 WHLX Marine City, MI	99.3 W257CZ Houghton, MI (2)	

Relays: 1) WSJM 1400, 2) WCCY 1400, 3) WHTC 1450, 4) WCBY 1240, 5) WKHM-FM HD2 105.3, 6) WMKT 1270, 7) WBRN 1460, **Notes:** ** denotes station carries only weekday games starting before 1500 ELT, ** denotes station carries weekend games and weekday games starting after 1500 ELT, *** denotes station only carries games starting after 1800 ELT

MINNESOTA TWINS (English) Cory Provus, Dan Gladden, Kris Atteberry, Web: twinsbaseball.com

830 WCCO Minneapolis, MN

No radio network information available.

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

AM
580 WIBW Topeka, KS
610 KCSP Kansas City, MO
680 KFEQ Saint Joseph, MO
690 KGGF Coffeyville, KS
780 WJAG Norfolk, NE
860 KKOW Pittsburg, KS
960 KMA Shenandoah, IA
990 KRSL Russell, KS
1150 KSAL Salina, KS
1150 KRMS Osage Beach, MO
1180 KZOT Bellevue, NE
1190 KVSU Beloit, KS
1220 KOFO Ottawa, KS
1240 KFHW Wichita, KS
1240 KFOR Lincoln, NE
1270 KSCB Liberal, KS
1280 KSOK Arkansas City, KS
1280 KDKD Clinton, MO
1290 KOIL Omaha, NE
1300 KMMO Marshall, MO
1300 KBRL McCook, NE
1310 KYUL Scott City, KS
1310 KGMT Fairbury, NE
1320 KLWN Lawrence, KS
1340 KGGG Garden City, KS
1340 KICK Springfield, MO
1350 KMAN Manhattan, KS
1370 KWRT Boonville, MO
1390 KNCK Concordia, KS
1400 KAYS Hays, KS
1400 KVOE Emporia, KS
1410 KOOQ North Platte, NE
1420 KJCK Junction City, KS
1420 KULY Ulysses, KS
1420 KRLL California, MO
1430 KKOZ Ava, MO
1440 KCHE Cherokee, IA
1450 KWBW Hutchinson, KS
1450 KOKO Warrensburg, MO
1460 KKOY Chanute, KS
1530 KDSN Denison, IA
1530 KNCK Newton, KS
1540 KLKC Parsons, KS
1580 KNIM Maryville, MO
1590 KVGB Great Bend, KS
1600 KMDO Fort Scott, KS
1600 KTTN Trenton, MO
1620 KOZN Bellevue, NE
FM
92.1 KMZA Seneca, KS
92.1 KKOZ-FM Ava, MO
92.3 K222CT Springfield, MO (1)
92.3 KTTN-FM Trenton, MO
92.5 KWIX-FM Cairo, MO
93.3 K227CX Manhattan, KS (2)
93.7 K229CW Wamego, KS (2)
94.3 K232FJ Hays, KS (1)
94.5 KLIQ Hastings, NE
96.7 KBBE McPherson, KS
96.9 K245BQ Emporia, KS (3)
97.1 KNIM-FM Maryville, MO
97.3 KBLR Blair, NE
97.5 K248CY Wichita, KS (4)
97.5 K248BP Osage Beach, MO (5)
97.5 K248CX McCook, NE (6)
97.7 KHBT Humboldt, IA
97.7 K249FA Hoisington, KS (7)
98.1 K251BM Russell, KS (8)
98.3 K252EY Concordia, KS (9)
98.5 K253BP Nickerson, KS (10)
99.1 KDWD Marceline, MO
100.1 KKWK Cameron, MO
100.9 KESA Eureka Springs, AR
100.9 KGLC Miami, OK
101.3 KLZA Falls City, NE
101.7 K269GP Lawrence, KS (11)
102.3 KOZQ Waynesville, MO
102.9 KMMO-FM Marshall, MO
103.3 K277CA Lincoln, NE (13)
103.7 K279CS Ottawa, KS (14)
103.9 KOMB Fort Scott, KS
104.1 KZJF Jefferson City, MO
104.9 K285GL Topeka, KS (15)
104.9 K285ER Osage Beach, MO (5)
104.9 KXEA Lowry City, MO
105.9 K290AT Norfolk, NE (16)
106.7 KQNK-FM Newton, KS
107.3 KLPW-FM Steelville, MO

Relays: 1) KICK 1340, 2) KMAN 1350, 3) KVOE 1400, 4) KFHW 1240, 5) KRMS 1150, 6) KBRL 1300, 7) KVGB 1590, 8) KRSL 990, 9) KNCK 1390, 10) KWBW 1450, 11) KLWN 1320, 12) KSOK 1280, 13) KFOR 1400, 14) KOFO 1220, 15) WIBW 580, 16) WJAG 780

LOS REALES DE KANSAS CITY (Spanish) José Muñoz, Web: losreales.com

1250 KYYS Kansas City, KS only

LOS TWINS DE MINNESOTA (Spanish) Alfonso Fernandez, Tony Oliva, Web: mlb.com/es/twins

1400 KMNV Saint Paul, MN

1470 KMNQ Brooklyn Park, MN (simulcast)

NATIONAL LEAGUE – CENTRAL DIVISION

CHICAGO CUBS (English) Pat Hughes, Ron Coomer, Web: cubs.com

670 WSCR Chicago, IL

No radio network information available.

LOS CUBS DE CHICAGO (Spanish) No play-by-play personnel information available, Web: loscubs.com

1200 WRTO Chicago, IL only

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

AM
580 WCHS Charleston, WV
600 WKYH Paintsville, KY
680 WHBE Newburg, KY
700 WLW Cincinnati, OH
800 WVHU Huntington, WV
870 WPWT Colonial Heights, TN
900 WLSI Pikeville, KY
920 WTCW Whitesburg, KY
970 WATH Athens, OH
990 WTIW Massillon, OH
1150 WLOC Munfordville, KY
1150 WIMA Lima, OH
1220 WSLM Salem, IN
1230 WCDS Glasgow, KY
1230 WHOP Hopkinsville, KY
1230 WIRO Ironton, OH
1230 WYTS Columbus, OH
1240 WFTM Maysville, KY
1240 WPKE Pikeville, KY
1240 WHIZ Zanesville, OH
1250 WCHO Washington Court House, OH
1260 WNXT Portsmouth, OH
1270 WXGO Madison, IN
1270 WAIN Columbia, KY
1270 WQTT Marysville, OH
1290 WVOW Logan, WV
1300 WLXG Lexington, KY
1340 WXFN Muncie, IN
1340 WEKY Richmond, KY
1360 WMOV Ravenswood, WV
1370 WGCL Bloomington, IN
1370 WGOH Grayson, KY
1400 WCYN Cynthiana, KY
1400 WFTG London, KY
1400 WIEL Elizabethtown, KY
1400 WBTH Williamson, WV
1410 WING Dayton, OH
1420 WTCR Kenova, WV
1430 WFOB Fostoria, OH
1440 WPGW Portland, IN
1450 WTCO Campbellsville, KY
1450 WWKU Bowling Green, KY
1450 WNOS New Bern, NC
1460 WEKB Elkhorn City, KY
1480 WTLO Somerset, KY
1490 WKBV Richmond, IN
1490 WBEX Chillicothe, OH
1490 WMOA Marietta, OH
1500 WKXO Berea, KY
1550 WCVL Crawfordsville, IN
1580 WAMW Washington, IN
1580 WLPK Connersville, IN
1590 WSRW Hillsboro, OH
1600 WZZW Milton, WV
FM
92.1 W221CS Crawfordsville, IN (1)
92.5 W223CU Richmond, KY (2)
92.7 W224BR Chillicothe, OH (3)
93.5 WAIN-FM Columbia, KY
93.5 W228DJ Ravenswood, WV (4)
94.3 WKKI Celina, OH
94.5 WYDB Englewood, OH*
95.1 W236CS Whitesburg, KY (5)
95.3 WNDI-FM Sullivan, IN
95.3 W237BV Hopkinsville, KY (6)
95.9 W240CE Washington, IN (7)
95.9 W293BP Pikeville, KY (8)
96.1 W241CD Bloomington, IN (9)
96.7 W283AJ Marysville, OH (10)
96.7 WBVI Fostoria, OH
97.1 W246CE Athens, OH (11)
97.7 W249DF Somerset, KY (12)
97.7 WILE-FM Byesville, OH
97.9 WSLM-FM Salem, IN
98.1 W251AI Pikeville, KY (13)
99.7 WUGO Grayson, KY
100.1 WMDJ-FM Allen, KY
100.5 WSJD Princeton, IN
100.7 W264BY Kingsport, TN (14)
100.9 WPGW-FM Portland, IN
100.9 W265CH Grayson, KY (15)
101.3 WFMG Richmond, IN
101.5 W268CC Hillsboro, OH (16)
101.7 W269DD Munfordville, KY (17)
101.9 WVOW-FM Logan, WV
102.3 WMTD-FM Hinton, WV
102.5 W273BC Williamson, WV (18)
102.7 W274BQ Bowling Green, KY (19)
102.9 W275AJ Muncie, IN (20)
103.5 W278CC Berea, KY (21)
104.3 W282BZ Elkhorn City, KY (22)
105.3 W287CP Columbus, OH (23)
105.5 WMVR-FM Sidney, OH
105.7 WHBE-FM Eminence, KY
106.1 W291CU Elizabethtown, KY (24)
106.1 WMOR-FM Morehead, KY
106.7 W294AF Ripley, WV (4)
106.9 W275BT Connersville, IN (25)
106.9 WVEZ Saint Matthews, KY
107.5 W298BX New Bern, NC (26)

Relays: 1) WCVL 1550, 2) WEKY 1340, 3) WBEX 1490, 4) WMOV 1360, 5) WTCW 920, 6) WHOP 1230, 7) WAMW 1580, 8) WPKE 1240, 9) WGCL 1370, 10) WQTT 1270, 11) WATH 970, 12) WTLO 1480, 13) WLSI 900, 14) WPWT 870, 15) WGOH 1370, 16) WSRW 1590, 17) WLOC 1150, 18) WBTH 1400, 19) WWKU 1450, 20) WXFN 1340, 21) WKXO 1500, 22) WEKB 1460, 23) WYTS 1230, 24) WIEL 1400, 25) WLPK 1580, 26) WNOS 1450. **Note:** * denotes Reds' list has old call WKFS

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

620 WTMJ Milwaukee, WI

No radio network information available.



PITTSBURGH PIRATES Greg Brown, Joe Block, Bob Walk, Steve Blass, John Wehner, Web: pirates.com

AM	1230 WBVP Beaver Falls, PA	1420 WCED DuBois, PA	1490 WTCS Fairmont, WV
590 WMBS Uniontown, PA	1230 WTIV Titusville, PA	1430 WVAM Altoona, PA	1540 WECZ Punxsutawney, PA
600 WFRM Coudersport, PA	1240 WBBW Youngstown, OH	1430 WEIR Weirton, WV	
630 WJAW Saint Mary's, WV	1270 WCBC Cumberland, MD	1440 WAJR Morgantown, WV	FM
680 WISR Butler, PA	1280 WJST New Castle, PA	1450 WFRA Franklin, PA	92.7 W224AI Loyalsock, PA (1)
680 WKAZ Charleston, WV	1310 WNAE Warren, PA*	1450 WJPA Washington, PA	93.7 KDKA-FM Pittsburgh, PA
850 WNTJ Johnstown, PA	1330 WETZ New Martinsville, WV	1450 WQWK State College, PA	96.7 W244CH Rockton, PA (2)
930 WRVC Huntington, WV	1340 WTRN Tyrone, PA	1460 WMBA Ambridge, PA	96.7 WLLF Mercer, PA
990 WLLI Somerset, PA	1390 WKLP Keyser, WV	1480 WCNS Latrobe, PA	97.5 WDDH Saint Mary's, PA
1050 WLYC Williamsport, PA	1400 WJET Erie, PA	1490 WESB Bradford, PA	106.3 WCDK Cadiz, OH
1160 WCCS Homer City, PA	1400 WBBW Wheeling, WV	1490 WMGW Meadville, PA	

Relays: 1) WLYC 1050, 2) WCED 1420, **Note:** * denotes Pirates' list lists a relay for the station on 102.7 MHz, but no such station is listed on Radio Locator or Doug Smith's FM list

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

AM	1400 KREF Norman, OK	93.9 W230BN Mayfield, KY (8)	100.3 KURM-FM Gravette, AR
540 WKFN Clarksville, TN	1400 KWON Bartlesville, OK	93.9 KSSZ Fayette, MO	100.3 KUKU Willow Springs, MO
680 WMFS Memphis, TN	1420 WINI Murphysboro, IL	94.1 WMIX-FM Mount Vernon, IL	100.5 KMEM Memphis, MO
730 WFMW Madisonville, KY	1430 WYMC Mayfield, KY	94.1 K231BM Poplar Bluff, MO (9)	100.9 K265FE Shawnee, OK (19)
740 WVLN Olney, IL	1450 WAOV Vincennes, IN	94.3 W262BI Robinson, IL (10)	101.1 K266BS Van Buren, AR (20)
790 WMC Memphis, TN	1450 KIRX Kirksville, MO	94.3 KATI California, MO	101.1 K266AN Atlantic, IA (21)
800 KAGH Crossett, AR	1450 KWPM West Plains, MO	94.9 W235AC Madisonville, KY (11)	101.3 WMSK-FM Sturgis, KY
800 KVOM Morrilton, AR	1450 KGFF Shawnee, OK	95.1 KMAQ-FM Maquoketa, IA	101.7 W269CE Dyersburg, TN (22)
860 WSON Henderson, KY	1450 WTRO Dyersburg, TN	95.7 WSEY Oregon, IL	102.1 KTUI-FM Sullivan, MO
870 WTIM Assumption, IL	1460 WROY Carmi, IL	95.9 KWHF Harrisburg, AR	102.3 WEBQ-FM El Dorado, IL
870 KAAN Bethany, MO	1460 KXNO Des Moines, IA	95.9 KCOB-FM Newton, IA	102.3 WRMJ Aledo, IL
980 KSGM Chester, IL	1490 WDAN Danville, IL	95.9 WGKY Wickliffe, KY	102.5 KEZK-HD3 Saint Louis, MO
990 KRMO Cassville, MO	1490 KBUR Burlington, IA	95.9 KKBL Monett, MO	103.3 W277DB Decatur, IL (23)
1050 K SIS Sedalia, MO	1500 KPGM Pawhuska, OK	96.1 W241CF Taylorville, IL (12)	103.5 WXLTV Christopher, IL
1070 KHMO Hannibal, MO	1520 WLUV Loves Park, IL	96.1 K241CK Cape Girardeau, MO (13)	103.5 W279AZ Jackson, TN (24)
1120 KMOX Saint Louis, MO	1540 WSMI Litchfield, IL	96.1 KITO Vinita, OK	103.7 K279AP Bethany, MO (25)
1220 WLPO La Salle, IL	1550 KESJ Saint Joseph, MO	96.5 W243CU Henderson, KY (14)	103.7 KJEL Lebanon, MO
1220 KJAN Atlantic, IA	1560 WBYS Canton, IL	97.1 KYAL-FM Muskogee, OK	103.9 W280EG Peru, IL (26)
1230 WHCO Sparta, IL	1570 WTAY Robinson, IL	97.3 KXUS Springfield, MO	104.1 KPOC-FM Pocahontas, AR
1230 WJBC Bloomington, IL	1570 WTRB Ripley, TN	97.3 KYRX Marble Hill, MO	104.1 W281BT Clarksville, TN (27)
1230 KZYM Joplin, MO	1580 KHGG Van Buren, AR	97.5 WBBA Pittsfield, IL	104.7 KRES Moberly, MO
1230 WBBZ Ponca City, OK	1580 KTGR Columbia, MO	97.5 KNMO Nevada, MO	104.7 WMUF-FM Paris, TN
1240 KTLO Mountain Home, AR		97.5 KOEA Doniphan, MO	104.9 KAGH-FM Crossett, AR
1240 KWAK Stuttgart, AR	FM	97.7 W249DC Vincennes, IN (15)	104.9 KYTN Union City, TN
1240 WTAX Springfield, IL	92.1 W229AU Fairfield, IL (1)	97.7 WREF Seabee, KY	104.9 W285FL Ripley, TN (28)
1240 KNEM Nevada, MO	92.3 KSAR Salem, AR	97.9 KBXB Sikeston, MO	105.1 WGEM-FM Quincy, IL
1250 KBTC Houston, MO	92.5 K223CR Morrilton, AR (2)	97.9 KFBD Waynesville, MO	105.1 K286CL Columbia, MO (29)
1280 KCOB Newton, IA	92.5 KPPL Poplar Bluff, MO	98.5 WQKZ Ferdinand, IN	105.3 W287BY Rockford, IL (30)
1290 WIRL Peoria, IL	92.7 KASR Villonia, AR	98.5 KWKJ Windsor, MO	105.5 KYEL Danville, AR
1310 WDXI Jackson, TN	92.9 WSEI Olney, IL	99.1 KMA-FM Clarinda, IA	105.5 WREZ Metropolis, IL
1340 KBTA Batesville, AR	92.9 WMFS-FM Bartlett, TN	99.1 WCBL-FM Grand Rivers, KY	105.9 WOKZ Fairfield, IL
1340 WJPF Herrin, IL	93.3 WQTY Linton, IN	99.1 K256CP Bartlesville, OK (3)	106.5 KTMO New Madrid, MO
1340 WSOY Decatur, IL	93.3 K227CQ Bartlesville, OK (3)	99.3 K257GC Burlington, IA (16)	106.7 WYFX Mount Vernon, IN
1340 WNBS Murray, KY	93.5 W228DC Carbondale, IL (4)	99.3 K257DA Norman, OK (17)	106.9 W295BQ Litchfield, IL (31)
1340 KSMO Salem, MO	93.5 W228DL Springfield, IL (5)	99.3 WZLT Lexington, TN	107.1 WEAL Lynnville, IL
1340 KXEO Mexico, MO	93.5 WSJK Tuscola, IL	99.7 K259BF Kirksville, MO (18)	107.5 W298CD Shelbyville, IL (12)
1360 KFFA Helena, AR	93.7 W229BO Galesburg, IL (6)	99.7 KTTR-FM Saint James, MO	
1390 KCRC Enid, OK	93.7 W229BZ Canton, IL (7)	99.9 KIRK Macon, MO	
1400 WGIL Galesburg, IL	93.9 WCEZ Carthage, IL		

Relays: 1) WROY 1460, 2) KVOM 800, 3) KWON 1400, 4) WINI 1420, 5) WTAX 1240, 6) WGIL 1400, 7) WBYS 1560, 8) WYMC 1430, 9) KPPL 92.5, 10) WTAY 1570, 11) WFMW 730, 12) WTIM 870, 13) KYRX 97.3, 14) WSON 860, 15) WAOV 1450, 16) KBUR 1490, 17) KREF 1400, 18) KIRX 1450, 19) KGFF 1450, 20) KHGG 1580, 21) KJAN 1220, 22) WTRO 1450, 23) WSOY 1340, 24) WDXI 1310, 25) KAAAN 870, 26) WLPO 1220, 27) WKFN 540, 28) WTRB 1570, 29) KTGR 1580, 30) WLUV 1520, 31) WSMI 1540

That will wrap up this edition of SportChannels. I'm surprised that the Chicago teams, the Twins and Brewers didn't have network information posted to their Web sites this year. The next edition will feature where to tune for CFL and MLS play-by-play on the radio. 73 and play hard from the Florissant Valley Dial Twister.



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

Geomagnetic Summary April 1 2018 through April 30 2018

Tabulated from status daily (K @ 0000 UTC).

Date	Flux	A	K	Space Wx										
4/ 1	69	5	1	no storms	4/11	69	14	2	minor, G1	4/21	77	12	1	no storms
2	68	5	1	no storms	12	70	9	3	no storms	22	76	5	2	no storms
3	68	4	0	no storms	13	70	9	2	no storms	23	74	6	2	no storms
4	69	5	2	no storms	14	70	6	2	no storms	24	73	5	2	no storms
5	66	9	2	no storms	15	71	6	2	no storms	25	71	4	1	no storms
6	67	4	1	no storms	16	69	3	1	no storms	26	69	4	2	no storms
7	67	5	2	no storms	17	69	4	2	no storms	27	69	6	2	no storms
8	68	5	2	no storms	18	71	6	1	no storms	28	70	4	1	no storms
9	69	10	4	no storms	19	71	3	0	no storms	29	71	4	1	no storms
4/10	69	18	3	no storms	4/20	73	47	3	moderate, G2	4/30	70	6	1	no storms

Gx – Geomagnetic Storm Level

Rx – Radio Blackouts Level

Sx – Solar Radiation Storm Level

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 Slogans List (December 2017)

This completely revised Slogans List includes radio slogans from the US and Canada (over 4500). The 2017 IRCA Slogans List is posted on the IRCA website for all to download. The link is: http://www.ircaonline.org/editor_upload/File/2017 IRCA Slogans List.pdf

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

Prices: **IRCA/NRC members** – \$7.25 (US), \$8.50 (Canada) \$10.00 (México), \$10.75 (rest of the world). **Non-IRCA members** – add \$1.00.

IRCA TIS/HAR LIST (Winter 2016)

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 March 1 2016.

The 2016 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_2016.pdf

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

Prices: **IRCA/NRC members** – \$9.50 (US), \$11.00 (Canada) \$12.50 (México), \$14.00 (rest of the world). **Non-IRCA/NRC members** – add \$2.00.

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.

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://www.ircaonline.org/editor_upload/File/July 2016 DXM Index.pdf.

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 52 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.

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To order from the IRCA, send the correct amount (in US funds payable to **Phil Bytheway**) to: **IRCA, 9705 MARY NW, SEATTLE WA 98117-2334**. Or, order through PayPal [add \$1.00] to email: phil_tekno@yahoo.com (Phil Bytheway). Please state club affiliation when ordering.

Antenna Reference Manual Volume 1 (ARM1)

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

ARM-1 Contents:

NRC FET Altazimuth Loop

Thoughts on FET Loop Construction

Tips on Loop Construction

Balanced and Unbalanced Loops

A 'Collapsible' Loop for Travel

Antenna Tuning Devices for Longwires

The Hawk Loop

Balanced FET Amplifier

NRC Two Foot Loop

One Transistor Loop amplifier

Direct Coupled Loops

BCB DXers Beverage

'Bob Flick' Loop Antenna Coupler

Alternative Methods of Air Core Loop Amplification

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

Order from NRC, PO Box 473251, Aurora CO 80047-3251 or www.nrctxas.org. Colorado residents, please add 3.5% sales tax. 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 November through March, twice monthly from April to November.) **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.

CLUB OFFICERS AND CONTACT INFORMATION

President: Bruce Portzer, 6546 19th Ave NE, Seattle WA 98115 e-mail: portzerbt@gmail.com (all proposals, suggestions and gripes go here)

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e-mail: lynnhollerman@yahoo.com – (dues, address changes, IRCA mailing list sign-ups)

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Publishing Committee: Temporary Editor-in-Chief: Phil Bytheway, 9705 Mary Ave NW, Seattle WA 98117-2334
e-mail: DXM.EiC@gmail.com (all material for publication goes here).

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Sample copies of **DX Monitor** are available at DXM.EiC@gmail.com

For information on **subscribing to the IRCA mailing list** at Hard-Core-DX, a group e-mail service, contact the moderator, Lynn Hollerman at lynnhollerman@yahoo.com.

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THE INTERNATIONAL RADIO CLUB OF AMERICA
PO Box 60241, Lafayette LA 70596
<http://www.ircaonline.org>