



DX MONITOR

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IRCA welcomes back **Robert D Young** in Millbury MA (contribute often – the rest of you too!). Seattle deadline for next issue – **Monday 10/2 6 PM PLT** (we are weekly now). As announced last issue; the combined **DXWW** appears this time. IRCA is still looking for a **DX Test Coordinator** and backup **Editor-in-Chief**.

Paul Swearingen

"TOPEKA, KANSAS. **Paul Swearingen** passed away this morning, 9/22/17. The funeral home is only 3 blocks from his home on 29th St. 2843 SE MINNESOTA AVE 60605 785-266-6700.

The picture at the right is Paul leaning against his car at his home in Topeka." Info via **Ernie Wesolowski**, Omaha

(Paul was a good friend. He published the NRC bulletin for many years and was a member of the NRC BoD. We ran several convention auctions together and negotiated the IRCA/NRC publication price exchange. There were many postings to the various eGroups regarding Paul. Paul had cancer. He is already missed – pb)



Updated PAL Available

9/13. I updated the Pacific Asian Log a few days ago. It's now posted on the Radioheritage website: <http://www.radioheritage.net/>. You'll need to go through a couple of the site's internal links to get to the proper page, but you'll be able to either download the PDF version or use the interactive version. If you have problems finding it, let

me know. I can also send a copy directly.

Changes since last update in May include major updates to the Australia, China, and Philippines listings, as well as changes for other countries. Corrections and updates from users are always welcome and can be sent to **portzer@comcast.net** or **portzerbt@gmail.com**. I'm planning to issue the next update in November.

First issued in 2001, The PAL lists medium wave and domestic shortwave broadcasting stations in southern and eastern Asia and the Pacific. It lists about 5000 stations in over 50 countries, with frequencies, call signs, locations, power, networks, schedules, languages, formats, networks and other information.

Bruce Portzer



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

2018 Convention Bids

Bids for the IRCA 2018 convention are now being accepted. If you're interested, please contact me at the above email address for a convention bid form. Deadline for bids is 10/15/17.



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: September 23 2017 **Column data span:** September 9-23, Data courtesy of **Stationintel.com**, FCC database and member contributions.

CALL CHANGES

FREQ	OLD CALL	CITY OF LICENSE	NEW CALL
1290	WLEJ	Bellaire, OH	WYLY
1490	KSPE	Santa Barbara, CA	KOSJ
1530	WMCE	North East, PA	WZTE

FORMAT, SLOGAN AND SILENT STATUS CHANGES

FREQ	CALL	CITY OF LICENSE	NEW INFORMATION
570	WSPZ	Bethesda, MD	was ESPN Radio Network, now talk, old slogan: "Sports Talk 570", new: "The Answer"
580	KUBC	Montrose, CO	old slogan: "The Voice Of The Valley", new: "580 KUBC Talk Radio"
730	WLTQ	Charleston, SC	now silent
740	WRPQ	Baraboo, WI	was adult contemporary, now classic hits, old slogan: "Your Hometown Station", new: "99.7 Max FM"
750	KMMJ	Grand Island, NE	was religious teaching, now southern gospel
970	WWRK	Florence, SC	was urban contemporary, now classic rock, old slogan: "105.5 The Beat", new: "Rock 94.1-97.9-105.9"
	WMPW	Danville, VA	was adult contemporary, now classic country, old slogan: "More FM", new: "Country Legends"
1010	WCSI	Columbus, IN	old slogan: "News/Talk 1010", new: "News-Talk 1010"
1020	WHDD	Sharon, CT	now silent
1080	KSCO	Santa Cruz, CA	old slogan: "Red Hot News/Talk KSCO", new: "Red Hot News-Talk KSCO"
	WFTD	Marietta, GA	was unknown format, now Spanish hits, adds slogan: "La Mega Mundial"
1130	WDFN	Detroit, MI	old slogan: "Sports Radio 1130 AM", new: "The Fan"
1140	WNWF	Destin, FL	now silent
1210	WILY	Centralia, IL	old slogan: "Oldies 1210 AM/98.7 FM", new: "Oldies 1210 AM-98.7 FM" (same?-ye ed)
1230	KOY	Phoenix, AZ	was talk, now regional Mexican, old slogan: "KFYI2 The Next Generation of Talk", new: "El Patron"
	WMAF	Madison, FL	now silent
1240	KNRY	Monterey, CA	was adult standards, now oldies, old slogan: "Unforgettable 1240", new: "1240 K-Surf"
	WKIQ	Eustis, FL	now silent
	WIOV	Reading, PA	old slogan: "Sports Radio 98.5/1240", new: "Sports Radio 98.5-1240"
1260	KTAE	Elgin, TX	old slogan: "The Horn 104.9 FM/1260 AM", new: "The Horn 104.9 FM-1260 AM" (same?-ye ed)
1290	WYLY	Bellaire, OH	old slogan: "Lejends 1290", new: "Willie 100.1 and 1290"
1300	WLXG	Lexington, KY	old slogan: "ESPN/Sports Radio 1300", new: "ESPN-Sports Radio 1300"
1310	WOKR	Canandaigua, NY	old slogan: "The Team 1310/1590", new: "The Team 1310-1590"

1330	WESR	Onley-Onacock, VA	old slogan: "Coastal Country", new: "105.7 Coastal Country"
1370	WXCT	Chattanooga, TN	old slogan: "Alt 93.9", new: "Alt 98.7"
1420	KOTK	Omaha, NE	old slogan: "94.5/1420 AM The Answer", new: "94.5-1420 AM The Answer"
1520	KRHW	Sikeston, MO	old slogan: "Country Classics 1520", new: "Country Legends 1520"
1530	WMCE	North East, PA	now silent
1540	WKDG	Sumiton, AL	now silent
1570	KLEX	Lexington, MO	now silent
1580	WNTF	Bithlo, FL	adds slogan: "Urban Talk Radio"
1590	WPUL	South Daytona, FL	was silent, now Spanish CHR
	WRSB	Brockport, NY	old slogan: "The Team 1310/1590", new: "The Team 1310-1590"
1600	WLAA	Winter Garden, FL	now silent
	WUCT	Algood, TN	old slogan: "NewsTalk 94.1/1600", new: "NewsTalk 94.1-1600"
1680	WOKB	Winter Garden, FL	now silent
1700	WRCR	Ramapo, NY	now silent

(Note: some repeating slogans again from stationintel.com, they are replacing the symbol/with - - ye ed)

MEMBER CONTRIBUTIONS

John T Arthur of Belfast NY passes along the following dated 9/15/17:

In early September there was a format change at WABH – 1380, Bath NY. They had been running in parallel with WEHH – 1600, Horseheads NY, with a broad adult standards format (playing music from the mid-30s to the mid-60s; everything from Paul Whiteman to Elvis Presley) and some sports spill-over from WENY – 1410, Elmira, including Yankees baseball and MRN races. They are now "classic country", with some sports spill-over.

Mike Sanburn of Bellflower CA passes along the following from **Bill Block** of Prescott Valley AZ via the IRCA mailing list dated 9/17/17:

KQQB-1520 in Stockdale, Texas is now being heard in Arizona with good signals with many ID's it sounds like they are testing.

Mike Sanburn of Bellflower CA passes along the following from **Dennis Vroom** via the IRCA mailing list dated 9/18/17:

CISL-650 Richmond, BC is now Sports Net 650.

Mike Sanburn of Bellflower CA passes along the following from Radio Insight via **Dennis Gibson** of Salinas CA dated 9/20/17:

New call letters for 1490. The translator is at the KTMS-990/KTYD-99.9 site.

<https://radioinsight.com/headlines/119817/rincon-broadcasting-flips-two-santa-barbara/>

Rincon Broadcasting Flips Two In Santa Barbara, By Lance Venta on September 19 2017

Rincon Broadcasting has flipped two of its stations in Santa Barbara CA.

Spanish Oldies "La Musical 1490" KSPE Santa Barbara has moved to 94.5 replacing CHR "Z94.5" KFYZ Ellwood. The station had quietly replaced its long-running Spanish Adult Hits "La Preciosa" with "La Musical" earlier this summer.

Replacing KSPE on 1490 and its new 94.1 K231CR Santa Barbara translator is Rhythmic Oldies "Old School". KSPE joins the network of Point/Rincon Broadcasting stations running the Rhythmic Oldies programming including 104.7 KOCP Oxnard, 104.7 KQIE Redlands/Riverside, 93.5 KQAV Rosamond/Lancaster and 99.1 KXFM Santa Maria. 1490 is now operating under KOSJ call letters.

KFYZ's CHR programming registered a 1.8 share in the Spring 2017 Nielsen Audio ratings down from a 2.4 in the Fall. KSPE held a 2.4 share on 1490 down from a 3.6 in the Fall.

Mike Sanburn of Bellflower CA passes along the following from **Paul B Walker** from the IRCA mailing list dated 9/22/17:

WKAJ 1120 Saint Johnsville NY dropped the syndicated classic hits format "Big Foot 1120" and picked up classic country from the same syndicator as "Outlaw Country 1120.

Mike Sanburn sends on that Paul Swearingen has passed away after a bout with cancer. He was a regular contributor to the club and a great asset to the hobby. He will be sorely missed, rest in peace Paul. Fall has begun and DX is picking up steam, hope your DX is doing the same. Leaves are slowly starting to change in Maryland and will kick in a lot in coming weeks elsewhere. 73's. Bob Wien



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

WDXR DEADLINES: Sept 29, Oct 6, Oct 13, Oct 20, Oct 27, Nov 3, Nov 10, Nov 17, Nov 24, Dec 1 and Dec 8. Please use Eastern Local Time.

REPORTERS FOR THIS ISSUE:

- (RB) **Rick Barton**-PO Box 5503-Peoria AZ 85385 desertmoon_dxshack@inbox.com
SW-2000629 and Terk Advantage loop; Grundig Satellit 750 with stock antenna
- (BB) **Bill Block**-Prescott Valley AZ billblock@cableone.net
R8, Wellbrook ALA1530LNP
- (MF) **Martin Foltz**-Mission Viejo CA martinfoltz@cox.net
Sony SRF-M37W, Radio Shack TRF 12-655 and HQ-180A with 75' wire
- (JCJ) **John Johnson**-2922 S Olivewood, Mesa AZ 85212 John_Johnson@prodigy.net
Icom IC-R75, Wellbrook ALA1530LNP
- (MS) **Mike Sanburn**-PO Box 1256-Bellflower CA 90707-1256 mikesanburn@hotmail.com
Sangean DT 160 Ultralight

OF SPECIAL INTEREST

- 1520 KQQB **TX**, Stockdale 9/14 0026-0100+ tuned in to continuous ad for timed programming by a man. Mentioned phone numbers to call. Weak and fading. New. (MF-CA)
+9/15 strong covering KOKC and XEEH 0028 airing a loop with information about the station, phone numbers to call, mention to check Radio Locator for coverage map, and complete legal ID. "This is AM 1520 KQQB Stockdale, San Antonio." This is a daytime only station on with full power. Heard over the next few nights. New for me. (JCJ-AZ)
+Heard 9/16 at 2211 with "This is AM 1520 KQQB Stockdale-San Antonio." (BB-AZ)
+9/19 0300 in well with numerous call letter IDs and what sounded like a looped promotional ad for the station. Fadey sometimes over UnID Mexican station playing National anthem. New for me! (MS-CA)
- 750 KOAL **UT**, Price 9/11 0730 local ad spots, "The Car Care Center in Price," to dead air letting two co-channels to be heard under open carrier. Audio came back on at 0742, before I could ID the co-channels. S-9 signal on SW-2000629, Terk Advantage loop. (BB-AZ)
- 810 KSWV **NM**, Santa Fe heard 9/21 at 2121 with "KSWV Santa Fe" on top of KGO. (BB-AZ)
- 1150 KEIB **CA**, heard 9/19 at 0857 with "The Voice of the West" then at 0900 "KEIB Los Angeles" into Fox News. (BB-AZ)
- KAGO **OR**, Klamath Falls 9/9 0134 local KEIB off the air and heard Coast to Coast AM, nice ToH ID "...Newstalk 11-50 KAGO Klamath Falls" into Fox news, then ads and back to Coast to Coast. Weak and fading. New. (MF-CA)
- 1190 KEX **OR**, Portland heard 9/20 at 0903 with news and weather with Rhonda Shelby at 0905. (BB-AZ)
- 1230 KOY **AZ**, Phoenix 9/14 local station changed format from talk to Mexican music. "El Patron" slogan. (JCJ-AZ)
- KPRL **CA**, Paso Robles 9/3 0021 Jukebox Saturday Night program with oldies. Heard a couple of ads for businesses including one in Atascadero. Station is normally talk but has this program on Saturday night. (MF-CA)
- 1330 KOVE **WY**, Lander heard 9/21 at 2208 with "1330 Country KOVE." (BB-AZ)

- 1400 KAZZ **UT**, Parowan heard 9/21 at 2105 with "Southern Utah's Most Trusted News Source" then ad for Saint George. (BB-AZ)
 1480 KRAE **WY**, Cheyenne 9/20 alone on 1480. 0800 out of oldies music with "This is KRAE Cheyenne also heard on K266CC Cheyenne 101.1 FM."(JCJ-AZ)
 1690 KFSG **CA**, Roseville 9/9 0717 religious lecture by man temporarily covering KDMT weekend fishing show. Solid on Grundig Satellit 750 and stock loop. (RB-AZ)

It's not too often that "Of Special Interest" is a third of the column! If you have not already joined the contest now is a good time to join us. So far I've logged 18 stations for the contest and 6 of them are new catches. If you want to hear new stations be sure to join the contest! – Nancy 9/22 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 **NØIHeric@aol.com**
 CountyComm GP-5/SSB Gen 3 Ultralight receiver, Grundig AN-200 tunable loop, Yaesu FRG-7, Worcester Space Magnet II

DOWN THE DIAL

- 620 WTMJ **WI**, Milwaukee. 9/10 fair signal, mixing with WRJZ, XEBU. 0525 noted with *Red Eye Radio*, local spots. [EB-MO]
 1050 WNES **KY**, Central City. 9/20 fair to poor signal over WDZ and other stations. 2010 noted with Classic Country format, "WNES 10-50 AM and 104-point-Seven FM Central City, Greenville" legal ID at 2014. [EB-MO]
 1070 KNX **CA**, Los Angeles. 9/19 fair to poor signal, mixing with WDIA, WFNI, WNVY and other stations. 0459 popped through with "KNX 10-70 news radio" ID into news headlines. [EB-MO]
 1420 KTOE **MN**, Mankato. 9/12 fair to poor signal over other stations. 2209 noted with local spots and Minnesota Twins baseball PBP. [EB-MO]
 1430 WDAL **GA**, Dalton. 9/11 fair to poor over other stations on the Ultralight, local KZQZ off for technical problems. 0603 noted with local news, mentions of Dalton and Murray County. [EB-MO]
 +9/11 fair signal over WOWW, WYMC on the FRG-7; local KZQZ off for technical problems. 2047 noted with "98-point-Three Bulldog Country" ID, weather forecast mentioning a tropical storm warning for northwest Georgia. [EB-MO]
 WOWW **TN**, Germantown. 9/11 fair to poor, mixing with WDAL, WYMC and other stations; local KZQZ off for technical problems. 2040 noted with Country format, "95-Three the Rebel" ID and local spots before fading to WDAL. [EB-MO]
 WRMG **AL**, Red Bay. 9/10 fair to poor signal, mixing with other stations, local KZQZ off for technical problems. 0550 noted with a Classic Rock format, "WRMG, 14-30 and 97-point-Nine" ID. Left on overnight; listed as a 1,000-watt day timer. Station #20 on 1430. [EB-MO]
 1450 KIRX **MO**, Kirksville. 9/14 fair to poor signal, mixing with KMRY, WLOH and other stations. 0500 noted with "99-point-Seven FM, 14-50 AM KIRX Kirksville" legal ID into Oldies format. [EB-MO]
 1490 KXLQ **IA**, Indianola. 9/15 fair to poor signal, mixing with KDMO, KFTK and other stations. 0548 noted with "La Patrona" ID in Spanish into a Regional Mexican format. [EB-MO]

OPEN MIKE

Thanks to Eric we have a column this week. This column was typed 9-22-17. 73, John



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

TUNING THE DIALS THIS ISSUE:

(PS-ON) **Paul Snider**, Welland ON, Canada
 Elad FDM-S2 software-defined receiver, Pixel RF Pro-1B loop

ACROSS THE DIAL

- 540 WYNN **SC**, Florence – 9/20 2210 noted with Urban Gospel format, "The Best in Gospel Music, Glory 98.5 and 540 AM" ID between songs. A poor to very poor was noted, mixing with WLIE and WFLF, confirmed by the Glory 985-dot-com Web stream. (PS-ON)
 600 WBOB **FL**, Jacksonville – 9/10 2228 noted with talk on Hurricane Irma, ad cluster including Empire Today, Southern Chevy Dealers and Window World, more hurricane coverage, mentions of hurricane and tornado warnings for the Jacksonville area, ad for the Jacksonville Toyota Superstore. Apparently, they were simulcasting coverage from one of the local TV stations. A fair at times to very poor signal, mixing with Radio Rebelde and another Latin American station. Must be on day power because of the hurricane. (PS-ON)
 890 WKNV **VA**, Fairlawn – 9/18 2116 noted on after sunset with Christian and Southern Gospel music, show promo mentioning "on Joy FM" at 2118, college PSA, more "Joy FM" mentions into another music set. A fair at times to poor signal was noted over WLS. (PS-ON)
 1090 WILD **MA**, Boston – 9/15 2217 on after sunset with various pop songs in Chinese, as well as a Britney Spears song in English, a cluster of spots, including one for 911 services, "This is 1090 WILD Boston" legal ID at 2301, followed by an ID in Chinese. A fair at times to very poor signal was noted, battling with WBAL, confirmed by Tune-In Web stream. (PS-ON)
 1150 WHUN **PA**, Huntingdon – 9/13 2203 started hearing an Oldies format; I was able to discern "I Can See for Miles" by The Who, "This is Hunny 103.5, 97.7" ID at 2207 into "Let's Do It Again" by The Staple Singers. A poor to very poor signal was noted under CKOC; confirmed via the stream on the Hunny 103.5/97.7 app. (PS-ON)
 1270 WACM **MA**, Springfield – 9/17 2151 noted with *American Top 40: The '70s*, ads for Sprint and Progressive Insurance, "This is 990 AM, 106.5 FM Kool Radio" ID at 2157, promo for the Bristol Mum Festival, "Making your radio cool again, 990 AM, 106.5 FM" ID at 2159 into an Oldies format, another "Kool Oldies 990 AM, 106.5 FM" ID at 2210. No legal ID heard at 2300 into news items. A poor to very poor signal was noted, mixing with WHLD, WLIK and other stations; confirmed via Web stream on Kool Oldies-dot-net. (PS-ON)
 1270 WLIK **TN**, Newport – 9/17 2140 noted with an Oldies format, spot cluster including the Newport Animal Office and other businesses in Area Code 423, "Oldies 97.9" jingle at 2144, "Since 1954, we're Still the One, WLIK" ID with Orleans' "Still the One" in the background at 2146. A poor to very poor signal was noted, mixing with WACM, a partially nulled WHLD and other stations; confirmed via Web stream on WLIK-dot-net. (PS-ON)
 1280 WNAM **WI**, Neenah/Menasha – 9/12 2208 noted with Adult Standards format, "WNAM" ID at 2215, spot cluster including PSAs for opioid abuse prevention, texting and driving prevention, the ALS Association and an ad for Estee Lauder cosmetics at Macy's, "Great Songs, Great Memories, WNAM" ID at 2221 into another music set. A poor to very poor signal was noted, mostly under WADO. (PS-ON) (Neenah and Menasha are separated by just a few short miles via Wisconsin Highway 114 – eb)
 1330 WEBO **NY**, Oswego – 9/14 0028 noted with Classic Hits format, Spectrum weather forecast with mention of WEBO, "Your Hometown Station, WEBO" ID at 0033, Community Calendar, Endicott Arts promo, and more WEBO mentions. A fair at times to very poor signal in a mix of stations. (PS-ON)

EDITOR'S NOTES

Thanks to Paul for his logs this week. We're now into the weekly issues... deadlines are Friday nights. Lest we forget Paul Swearingen. 73 and good DX from NØIUIH, the Florissant Valley Dial Twister.



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

Deadline – Sunday Midnight Central Time. **Note** – New email address for reports.

***** TRANS-PACIFIC DX *****

- 531 **JAPAN** JOQG, Morioka, NHK1. SEP 22 1327 – weak with woman in Japanese. //594 JOAK. [DV-WA]
 558 **REP KOREA** HLQH, Yeong-il, KBS2. SEP 22 1344 – weak/fair with pop music. [DV-WA]

- 567 **JAPAN** JOIK, NHK1, Sapporo. SEP 16 1346 – weak with man in Japanese. [DV-WA]
 +SEP 17 1300 – very poor TOH 1300 pips and chime. [SR-AZ]
 +SEP 22 1345 – fair with man/woman in Japanese. //594 JOAK. [DV-WA]
- 585 **UnID** SEP 18 1355 – weak with woman in DU English. [DV-WA]
- 594 **AUSTRALIA** 3WV (p), Horsham. SEP 16 1329 – assuming the station over JOAK with man singing in English. [DV-WA]
JAPAN JOAK, NHK1, Tokyo. SEP 16 1324 – fair w/two men in Japanese. [DV-WA]
 +SEP 17 1300 – very poor TOH 1300 pips and chime SEP 17. [SR-AZ]
 +SEP 18 1227 – very weak with woman in Japanese. [DV-WA]
 +SEP 20 1319 – weak w/woman in Japanese. Good at 1351 w/man in Japanese. [DV-WA]
 +SEP 22 1325 – good signal. Man in Japanese. [DV-WA]
- 603 **REP KOREA** HLSA, Seoul, KBS2. SEP 20 1322 – poor with male speaker. [DV-WA]
 +SEP 22 1329 – weak with male speaker. [DV-WA]
- 639 **UnID** SEP 18 1409 – poor signal with woman in DU English. [DV-WA]
- 657 **DPK KOREA** Pyongyang, Pyongyang BS. SEP 22 1315 – weak //3320 with talk and military music. [DV-WA]
NEW ZEALAND Tauranga, 'Star'. SEP 18 1351 – weak/fair Christian music. [DV-WA]
 +SEP 20 1310 (t) – very weak DU English. Male speaker. 1322 weak with singing. [DV-WA]
- 666 **JAPAN** JOBK, Osaka, NHK1. SEP 18 1350 – fair with Japanese. [DV-WA]
- 675 **UnID** SEP 18 1345 – pop music, DU English. Weak signal. [DV-WA]
- 693 **JAPAN** JOAB, Tokyo, NHK2. SEP 16 1332 – fair signal //JOUB 774. [DV-WA]
 +SEP 20 1333 – fair with Chinese lessons. [DV-WA]
- 702 **AUSTRALIA** 2BL, Sydney. SEP 18 1342 – weak //738. [DV-WA]
- 738 **AUSTRALIA** 2NR, Grafton. SEP 18 1341 – fair match live stream. [DV-WA]
- 747 **JAPAN** JOIB, Sapporo. NHK2. SEP 17 1214 – very poor/poor. [SR-AZ]
- 774 **AUSTRALIA** 3LO, Melbourne. SEP 16 1336 – briefly rising above JOUB with folk song. [DV-WA]
 +SEP 18 1407 – under JOUB with female speaker in English. Fair. [DV-WA]
 +SEP 20 1300 – Traces of talk, then time pips and news fanfare at 1300. [NP-AB]
JAPAN JOUB, Akita, NHK2. SEP 13 1259 – poor on peaks with English lessons into TOH 1300 pips and chime. "Old MacDonald" seems to be the theme of the English lessons lately as they sing bits of the song frequently. [SR-AZ]
 +SEP 17 1253 (sync AM locked and good audio), 1300 TOH pips and chime SEP 17. [SR-AZ]
 +SEP 18 1257 – Fair signal. Good 1319. English lessons. [DV-WA]
 +SEP 20 1305 – weak with women in Japanese. Heavy KTTH splatter. 1337 Overriding KTTH splatter with good signal and Chinese lessons. [DV-WA]
- 792 **AUSTRALIA** 4RN, Brisbane, ABC National. SEP 18 1337 – //3LO with talk. Fair at 1406. [DV-WA]
 +SEP 18 1251 – Traces of talk by a woman at 1251. Also noted a decent carrier on 791.98, which I don't recall noticing before. [NP-AB]
 +(p) SEP 20 1357 – assuming 4RN weak with music. [DV-WA]
UnID SEP 16 1341 weak signal with woman in Asian language. [DV-WA]
- 828 **AUSTRALIA** 3GI, Sale. SEP 18 1249 – interview by man. [NP-AB]
 +(p) Sep 20 1341 – weak/fair signal, guessing 3GI under/equal to JOBB. Man in DU English. [DV-WA]
JAPAN JOBB, Osaka, NHK2. SEP 16 1342 – man in Japanese. Fair signal. [DV-WA]
 +SEP 18 1320 – Good signal. [DV-WA]
 +SEP 20 1302 – poor w/women announcer. 1338 fair //774.[DV-WA]
- 846 **JAPAN** NHK1 synchros. SEP 17 1300 – TOH pips and chime, very poor. [SR-AZ]
- 873 **JAPAN** JOGB, Kumamoto, NHK2. SEP 17 1242 – TOH pips and chime, very poor. [SR-AZ]
- 891 **AUSTRALIA** 5AN, Adelaide. SEP 20 1230 – Could make out the ABC news fanfare at 1230, but very little else. [NP-AB]
AUSTRALIA? UnID. SEP 18 1402 – fair signal w/man interviewing woman. Did not match ABC live stream. [DV-WA]
JAPAN JOHK, Sendai, NHK1. SEP 17 1300 – TOH pips and chime then talk. [SR-AZ]
- 972 **REP KOREA** HLCA, Dangjin. SEP 17 1222 – poor; 1300 TOH pips and chime (different from Japan's). [SR-AZ]
 +SEP 18 1325 – fair w/heavy KUFO splatter. [DV-WA]
 +SEP 20 1346 – fair signal. Woman/man speakers with heavy KUFO splatter. [DV-WA]
- 1026 **AUSTRALIA** 4MK, Mackay. SEP 23 1316 – Poor-fair with Bee Gees song at 1316. Confirmed as being currently played on web site. [NP-AB]
- 1098 **MARSHAL ISLANDS** V7AB, Majuro. SEP 12 1105 – strong carrier at 1105; song, fair, at 1117-1122; singing, poor, 1124-1128. [Allen-OK]
- 1134 **JAPAN** JOQR, Tokyo, NCB. SEP 17 1252 – talk; 1300 TOH pips and chime. [SR-AZ]
- 1242 **JAPAN** JOLF, Tokyo. SEP 17 1250 – very poor; 1300 TOH pips and chime. [SR-AZ]
- 1287 **JAPAN** JOHR, Sapporo, HBC. SEP 17 1251 – very poor talk; 1300 TOH pips and chime. [SR-AZ]
- 1503 **JAPAN** JOUK, Akita, NHK1. SEP 18 1258 – very poor; 1300 TOH pips and chime. [SR-AZ]
- 1548 **AUSTRALIA** 4QD, Emerald. SEP 23 1303 – Bits of ABC news noted through 1550 splatter at 1303. [NB-AB]
- 1566 **REP KOREA** HLAZ, Jeju, FEBC. SEP 13 1256 – poor on peaks. But at 1316 while listening to HLAZ, another station faded up briefly to poor level over HLAZ with female vocal music (Asian). [SR-AZ]
 +SEP 16 1343 – weak with piano music. [DV-WA]
 +SEP 17 1231 – very poor/poor lasting more than an hour with several religious services finally fading 1344. [SR-AZ]

*** PAN-AMERICAN DX ***

- 560 **MÉXICO** XESRD, Santiago Papasquiario, Dur. SEP 18 1200 – mentions Monterrey, Nuevo León, but then spoken and sung "La Tremenda", which is XESRD, 10/1 kW. [GH-OK]
- 580 **MÉXICO** XEMU, Piedras Negras, Coah. SEP 25 0550 – back-to-back EZL vocals canned ID by man beginning 0558 "X-E-M-U, La Rancherita del Aire...."
 Poor to fair, mixing with weaker Latin. [BJ-TN]
- 590 **MÉXICO** UnID. SEP 12 0500 – Once again I had a weak Mexican anthem at 0500, soon clobbered by XEBH, KTIE and KSUB. Whatever this is, I probably need it! [TH-CA]
- 630 **MÉXICO** XEFB, Monterrey, NL. SEP 18 1202 – full ID for XEFB by SHVA (super-hype voice actor). [GH-OK]
- 650 **MÉXICO** XETNT, Los Mochis, Sin. SEP 18 1058 – Mexican Tuba Music @ 0658-0700 EDT. Male DJ with ID @ 0700 as "Radio Sesenta Cinco Presente – Buenos Dias Yardaros/LLARDAROS???" (Not sure of spelling of last word??) Mentions of México and Sinaloa. Rooster Crow @ 0701. Female Spoke Spanish @ 0701. Into Lively Mexican Music with male Vocals. No Sign of WSM Nashville!! [RR-ON]
- 660 **MÉXICO** XEEY Aguascalientes, Agua. SEP 14 0947 – noted with "La Caliente" ID and Ranchera music in Spanish. A fair to poor signal was noted over WFAN, no digital ACI from WSCR 670. [EB-MO]
- 670 **CUBA** CMQ, Radio Rebelde, Arroyo Arenas. SEP 25 0600 – ID, news on German election. Dominant over WSCR. [BJ-TN]
- 690 **MÉXICO** XEN, México, DF. SEP 25 0900 – Canned ID under WQNO,"X-E-N", followed by Simon and Garfunkel's Sound of Silence. [BJ-TN]
- 710 **MÉXICO** XEMP, México, DF. SEP 25 0900 – canned ID by alternating male and female, norteño vocal Dime by Julión Álvarez. Dominant by 0908 with Serenata Tapatía by Pedro Infante. [BJ-TN]
- 720 **MÉXICO** XEJCC, Ciudad Juárez, Chih. SEP 20 1205 – Chihuahua state anthem, 1206 inspirational recitation "Un Nuevo Día" about amor, etc. 1208 "Está escuchando El Fonógrafo 7-20-AM" with street address, mil watts, Grupo Radio México canned ID, then to live announcer uttering call letters XEJCC (rarely heard), Ciudad Juárez, 6:08 TC. WRTH 2017 agrees on 1 kW power; IRCA log of 2015 showed it as 25 kW daytimer when it was Extremo 720. [GH-OK]
- 730 **MÉXICO** XEX, México, DF. SEP 11 0459 – Male and Female with Sports Talk in Spanish. Into ID @ 0100 EDT as "W Deportes". Sports promos. Mexican National Anthem with Vocals @ 0100-02. ID as "W Deportes" @ 0102. [RR-ON]
- 770 **MÉXICO** XEREV, Los Mochis, Sin. SEP 15 1210 – several "Los Cuarenta" slogans atop music, ie XEREV, owning the frequency now; would that be 5000 watts day or 100 watts night? Had just tuned past other NW Mexicans on 650, 700, 710, 730. Kkob NM should pop on to ND day pattern at 1245 during September. [GH-OK]
 +SEP 24 1222 – Suprema Corte de Justicia mandatory federal PSA, earthquake relief PSA, "Grupo Chávez Radio", loops SW and 1225 rock music, so that makes it XEREV Los Mochis, Sinaloa. Best XE signal holding up this late, our sunrise just now at 1221 UT. [GH-OK]

- 790 **MÉXICO** XENT, La Paz, BCS. SEP 18 1205 – patriotic speech clips, probably from Sept 16 celebrations; 1207 surprised by untranslated English clips of Tillerson, Haley, May; back to Spanish, loops SW and dominant. 1212 program ID as "En los Tiempos de la Radio"; Senado PSA; and finally ID as "790 AM Grupo Fórmula La Paz"; 1213 mini-features 'México y sus Sabores' about quesadillas; 'Rincones de México' about Cuatro Ciénegas, Coahuila and its dunes; then another 'Sabores' about gorditas. This is XENT, 10000/750 watts. Always neat to hear a station from the far end of México; already this morning had unlogged closer but nearby Sinaloa across the Cortez Sea on 610, 650. [GH-OK]
- 800 **BONAIRE** PJB, TransWorld Radio, Kralendijk. SEP 18 0259 – Instrumental Music into ID by Female @ 2300 EDT as "Radio Transmundial". Into Spanish Religious Talk. [RR-ON]
MÉXICO XEROK, Ciudad Juárez, Chih. SEP 25 0600 – National anthem, canned ID from 0604, many Radio Cañon ID's. Under domestic religious broadcaster. [BJ-TN]
- 870 **MÉXICO** XETAR, Guachochi, Chih. SEP 23 1202 – XETAR, La Voz de la Sierra Tarahumara, is playing Mexican NA performed a cappella by amateur children's choir, different version than heard on countless other stations. 1203 sign-on in Spanish and native languages, all of which have no alternative but to pronounce the call letters repeatedly in Spanish. 1205 plug parent org CDI with Jew's harp accompaniment. We are now in season to hear this 10 kW daytimer well at sign-on; our sunrise 1220 UT, theirs 1257 UT. [GH-OK]
- 940 **MÉXICO** XEQ, México, DF. SEP 10 0257 – Spanish Pop Music. Jingles and ID @ 2300 EDT. "La Capital 940 Khz". "Ke Buena". Mentions of México. Into more Spanish Vocal Music. [RR-ON]
- 1010 **MÉXICO** XEHL(p), Guadalajara, Jal. SEP 12 0500 – //XEX-730 with sports update about tonight's Chargers football game. [TH-CA]
- 1070 **MÉXICO** XESP, Guadalajara, Jal. SEP 12 0530 – Music program //web stream <http://player.listenlive.co/30021>. Station still uses "noticias 10-70" slogan despite playing a lot of music. NEW, Jalisco #20, México #294, Station #1403. [TH-CA]
- 1100 **MÉXICO** XETGO, Tlatlenango, Zac. SEP 25 1001 – canned ID by woman, "Radio Cañon, X-E-T-G-O...", FM/AM frequencies, phone, etc into norteño vocal by Los Herederos de Nuevo León. [BJ-TN]
MÉXICO XERED, México, DF. SEP 25 1000 – Many Radio Red ID's at top of hour, brief canned ID followed by news with alternating male and female announcers just before 1003. On top of channel. [BJ-TN]
- 1140 **MÉXICO** XEMR, Monterrey, NL. SEP 25 1001 – just caught end of canned ID by man during brief silence on KHFX, mentions of Monterrey and Nueva León. [BJ-TN]
- 1150 **MÉXICO** XEAD, Guadalajara, Jal. SEP 12 0439 – Radio Metropoli on top of channel with talk program //web. Last night XEUAS was here with a good signal. [TH-CA]
- 1190 **MÉXICO** XEWK(p), Guadalajara, Jal. SEP 12 0500 – "W radio" into Mexican anthem. [TH-CA]
- 1310 **MÉXICO** XETIA, Guadalajara, Jal. SEP 12 0459 – Fast choral version of Mexican anthem poking right through local XEC. Listened to the recording again, and there is a clear "Radio Vital" ID at 0501 right after the anthem. Unneeded, but not bad to have this poking right through my local. [TH-CA]
- 1340 **MÉXICO** UnID. SEP 12 0459 – Caught a minute or two of Spanish sports talk, not //ESPN Deportes or Univision Deportes. If I had only noticed this while I was listening live, I could have checked this against XEDKT's web stream. That's probably who it was, given the strong pipeline to Guadalajara that was present on this auroral evening. (XEDKT-1340 and XEPJ-1370 swapped formats a while back – ranchera is now on 1370 and sports on 1340). Would have been a nice new catch if I could have pulled it in. Will have to try again the next time conditions are good. [TH-CA]
- 1370 **MÉXICO** UnID. SEP 12 0500 – Weak choral anthem way u/KWRM. Most likely XEPJ, unneeded but not heard in many years. [TH-CA]
- 1570 **MÉXICO** XERF, Ciudad Acuña, Coah. SEP 19 1059 – Male and female with Spanish Talk and ID as "XERF – 1570 AM". Mention of Ciudad Acuña, México. Into Long Version of the Mexican Anthem with Vocals from 0659-0703. [RR-ON]

*** TROPICAL BAND DX ***

- 2850 **DPR KOREA** KCBS, Pyongyang. SEP 17 1315 – woman in (presumed) Korean. Just above the noise floor as local sun rising; and not the usual operatic music. Poor. [RB-AZ]
 +SEP 18 – Good with man/woman in Korean. [DV-WA]
- 3220 **DPR KOREA** KCBS, Hamnung. SEP 18 1241 – weak with talk. [DV-WA]
- 3250 **DPR KOREA** Voice of Korea, Pyongyang. SEP 18 1235 – fair with military music. [DV-WA]
- 3325 **INDONESIA** RRI Palangkaraya. SEP 18 1228 – immediately upon tune-in, "Radio Republik Indonesia" ID in passing, at S2-S4, with Bougainville no doubt already off – the last living Indonesian SW station as 9525-VOI is still absent (but maybe not forever).
 +SEP 22 1258 – S2-S3 music, no doubt RRI Palangkaraya, talk follows timesignal about 25 seconds late after 1300 – don't rely on it for navigation or you may run into a volcano! Still nothing on 9525- from VOI English. Astunori Ishida agrees, still no logs of that anywhen since Sept 13. [GH-OK]
- 3480 **REP KOREA** Voice of the People, Kyonggi-do Koyang. SEP 17 1330 – Soprano vocalist, music more like DPRK on 2850. Heard well over the DPRK jammer. Fair. [RB-AZ]
 +SEP 18 – good with woman speaker Korean. Open carrier jammer? [DV-WA]
- 3925 **JAPAN** Radio Nikkei 1, Chiba-Nagara. SEP 17 1335 – American style jazz program, Woman presenter in Japanese. Noted very good //6055; 9595 not heard. Good with flutter. [RB-AZ]
 +SEP 24 1229 – Radio Nikkei 1 is S9 in Japanese, back on air after some absence, and still better here than //6055 or 9595; 1233 overlapping conversations, language lesson? [GH-OK]
- 3945 **JAPAN** Radio Nikkei 2, Chiba-Nagara. SEP 18 1115 – Female pop vocals. Fair/good. [RB-AZ]
 +SEP 20 1214 – Pop vocals mixing with some 80m ham traffic. Fair/Good. [RB-AZ]
- 4765 **CUBA** Radio Progreso, Bejucal. SEP 24 0042 – Radio Progreso is back on at S9, but a great deal weaker than 5025, Radio Rebelde at S9+35. NDXC says 4765 is 50 kW ND from Bejucal, while 5025 is 100 kW ND from Bauta. [GH-OK]
- 4985 **BRAZIL** Radio Brasil Central (p), Goiania. SEP 12 0126 – very poor music, presumed Radio Brasil Central, and NO RTTY, which usually blocks it totally; //11815 is even weaker now. Wonder if Irma has something to do with the RTTY being absent? Never know whence it be. But Sept 13 at 0157, RTTY is back. [GH-OK]
- 5025 **CUBA** Radio Rebelde, Bauta. SEP 20 0525 – Radio Rebelde with other music is supertorted quite like RHC 6000. At 1227 modulation is OK, with remote reports from PR, DR about Huracán María during 'Haciendo Radio'. María is an unfortunate moniker for all those Catholics; prayers must be explicitly aimed at the other one. [GH-OK]

CONTRIBUTORS

- RA-OK **RICHARD ALLEN**, near Perry OK (via eGroup)
 WR-G313e, ALA1530LNP-NA. C Crane Skywave and Tecsun PL-380 with an 8-inch FSL antenna.
- RB-AZ **RICK BARTON**, Peoria AZ (via eGroup)
 RS SW-2000629, Satellit 750 with various outdoor wires, World Traveler Longines Symphonette 4597 portable with Terk advantage loop
- EB-MO **ERIC BUENEMAN**, Hazelwood MO
 CountyComm GP-5/SSB Gen 3 Ultralight receiver, Grundig AN-200 tunable loop
- TH-CA **TIM HALL**, Chula Vista CA (via ABDX eGroup)
 Perseus SDR-IQ, 560 ft unterminated BOG aimed SSE/(NNW)
- 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
- BJ-TN **BRANDON JORDAN**, Rossville TN
 G33DDC, 140'x28' Vactrol controlled DKAZ aimed SW/(NE)
- NP-AB **NIGEL PIMBLETT**, Dunmore AB (via eGroup)
 Perseus SDR with a Wellbrook Phased Array
- SR-AZ **STEVE RATZLAFF**, near Sahuarita AZ (via eGroup)
 R75, FDM-S2, 140' west DKAZ + FLG100 preamp
- RR-ON **ROB ROSS**, VA3SW, London ON (via eGroup)
 ELAD FDM-S2 SDR, ALA-1530LNP Imperium Loop
- DV-WA **DENNIS VROOM**, Kalama WA (via eGroup)
 JRC NRD 545 + Drake R8B, 339' long wire, 380' random wire

ANNOUNCEMENT

Hi folks. This is my first column as the combined DXWW editor. Please note that I have created a new email dxww.irca@gmail.com specifically for submissions to the column. Phil did an amazing job gleaning logs from the eGroup(s) for DXWW-W. I am going to attempt to transition away from that daunting process and ask the IRCA eGroup members to consider submitting loggings they wish to be included in the bulletin directly to me.

73, Brandon



DXpeditions – Phil Bytheway – 9705 Mary NW – Seattle WA 98117-2334
E-mail: phil_tekno@yahoo.com

9/21 (Gary DeBock via eGroup). Once in a while a DXer stumbles into some incredibly good luck! During our solar eclipse trip to the ocean coast location of Lincoln City, Oregon I knew that the primary focus would be on the awesome cosmic event on August 21st, and that DXing would be a secondary priority. The ocean beach location would still offer three sunrise DU-DXing sessions during the trip, though, so the plan was to take along a modest 8 inch (20cm) FSL antenna and a single CC Skywave Ultralight for some casual DXing fun. Prior to the DXing sessions I scouted out a sloping-grade setup spot facing the southwest direction, though, hoping for at least some decent big gun DU reception.

Yikes! The modest gear (photo at <https://dreamcrafts.box.com/s/d2sdryqw32juqrj3p1xn6b2y9rc43e8>) ended up with the strongest Western Australia MW reception (558-6WA) that I've ever heard from anybody (on the west coast), along with near S9 signals from 639-5CK, 639-2CH, 1026-4MK and others. The 558-6WA reception (at 9,126 miles, or 14,687 km) was easily matched to the ABC website Podcast, which was a good thing since there were no Perseus-SDR DXers around recording parallels :-). The DXing site was a parking area at the end of NW 50th Street in the Roads End neighborhood, leading to an ocean beach access path running down the relatively steep hill. It was obvious that the DU-facing hill was somehow providing a freakish transoceanic propagation boost, allowing the modest gear to perform like gangbusters.

Of course three days isn't really long enough to thoroughly evaluate a site's long-term DXing potential, and further investigation will be needed to confirm this Lincoln City hillside location (which I nicknamed "Oz Hill") as a new DU-DXing hotspot. Best Australian results were enjoyed on the third day, and of course there are daily changes in the favored areas. But in consideration of the site's boosted DU propagation over all three days, it is fascinating to wonder how the results could have been with top-of-the-line 17" and 15" FSL antennas, an SSB spotting receiver to track emerging DU-DX targets, and simultaneous recording of three different MW frequencies (such as was done at the Rockwork 4 DXpedition the same month). For those who always are looking for a new challenge, this type of fascination usually leads to some pretty practical DXing results!

- 531 **AUSTRALIA** 2PM, Kempsey, 5 kW. SRN call-in talk format //639 with male host at 1317 on 8/21; usually dominated frequency over 4KZ
<https://dreamcrafts.box.com/s/9gsuy6dqmo4twasmpiya2coat2vjt8yh>
- AUSTRALIA** 4KZ, Innisfail, 10 kW. Good signal with the usual "4KZ Regional News" male announcer at 1303 on 8/22, but typically under Australian co-channel 2PM <https://dreamcrafts.box.com/s/2htsp9ngs03t96rrilnmkk1kxondp7a1>. Oldies format ("Ruby, Don't Take Your Love to Town") at fair to good level at 1209 on 8/20 <https://dreamcrafts.box.com/s/yfwwsf2vhhvquyuy2s787kga6l4ko6k4>
- NEW ZEALAND** 531 PI, Auckland, 5 kW. Unusual appearance with female Samoan speech at fair level at 1252 on 8/20; rarely showed up with decent strength over the three days <https://dreamcrafts.box.com/s/r6dyncuheqhr7mhhui9ytf3xpavwixh>
- 558 **AUSTRALIA** 6WA, Wagin, 50 kW. ABC female and male conversation at a strong level at 1326 on 8/22, matching the same program and voices on the ABC website podcast for the related time segment. Extreme long-range DX (9,126 miles/14,687 km) and the strongest Western Australian MW reception I've ever heard <https://dreamcrafts.box.com/s/pihnpq1bb676w92g19yb5bxe1s30wpr>. ABC website Podcast content for the same time segment at 1326 on 8-22 (regarding Jerry Lewis) <https://dreamcrafts.box.com/s/abdi8zikf6i3x9jqw3xlqon0s8ahix1z>
- FIJI** Radio Fiji One, Naulu, 10 kW. Good-level male Fijian speech and island music at 1347 on 8/22; along with the second MP3, this was its strongest appearance over the three day period <https://dreamcrafts.box.com/s/xmylhjvs9zomi95o0y4yonojd7nayohz>. Good-level island music at 1346 on 8/21 <https://dreamcrafts.box.com/s/1a9ksarxibdhdbpof39dyds4fu8q9xlg>. Bottom-of-the-hour song medley ID at decent strength at 1330 on 8/20 <https://dreamcrafts.box.com/s/lpyl8v56jj215j0alzcc8cqqmq08fn9yf>
- 6WA-Fiji Mix** At 1337 on 8/22 the two exotic DU's fight it out at a pretty strong level, with the female-voiced 6WA slowly losing out to the male-voiced Radio Fiji One. Most west coast DXers would probably consider either one of these to be choice DX
<https://dreamcrafts.box.com/s/09v8eonsqz51ypqdn8ppbx1zjwkptip>
- 585p **AUSTRALIA** 2WEB, Bourke, 10 kW (presumed) Instrumental rock music not // 576 at 1319 on 8/20
<https://dreamcrafts.box.com/s/0ikvfg9x3yo11atf4dprkrvtvxyi9vew>
- AUSTRALIA** 7RN, Hobart, 10 kW. Male DU English speech barely strong enough to confirm 576 parallel at 1322 on 8/21
<https://dreamcrafts.box.com/s/85ihkp3rkl84ta55zb6oanugd8nnrkz>
- 594 **AUSTRALIA** 3WV, Horsham, 50 kW. Good strength with intro for "Nightlife" guest at 1340 on 8/22
<https://dreamcrafts.box.com/s/n4eidx2035kgj4udz2h484jmw94fegjb>
- 603 **AUSTRALIA** 2RN, Nowra, 10 kW. Very good-level female DU English speech //792 at 1305 on 8/21, but usually under Radio Waatea
<https://dreamcrafts.box.com/s/fqs78o9m29ma5rr5g61xoekrmf91tvs5>
- NEW ZEALAND** Manukau, Radio Waatea, 5 kW. Good signal at 1250 on 8/20 with Maori music and Maori child's speech; usually dominant
<https://dreamcrafts.box.com/s/bw3pjlibi6uhggp4dbrmps3nps7ma9p8j>
- 639 **AUSTRALIA** 2HC, Coffs Harbour, 5 kW. Call-in talk program at 1306 on 8/22 at a very good level, previously running commercial ads (and not //891). Dominant over 5CK on most days, and a convenient signal to check SRN parallels (531-2PM, etc.)
<https://app.box.com/s/q52xk4p57efhlqvg40d2i7c4abvibmko>
- AUSTRALIA** 5CK, Port Pirie, 10 kW. Very good signal // 891 at 1335 on 8-21 with ABC local weather information
<https://dreamcrafts.box.com/s/k1vhpdxbch9j3zv86zh0vh30ppuli43k>
- 657 **NEW ZEALAND** Tauranga, 'Star', 50 kW. Overall the strongest Kiwi station at this new location, its Christian music usually was easily heard, such as at 1326 on 8/20 <https://dreamcrafts.box.com/s/siqn2w20frvmehqnnhmf14u6mw1uqcr>
- DU Mix** Modest level male and female DU English voices mixing together at 1244 on 8/20 – almost certainly RNZ and 2CO, but not stable enough to sort them out by checking parallels <https://dreamcrafts.box.com/s/h5j3e9o9vqqf2t13rf7az8ni7iv6cgcu>
- 702 **AUSTRALIA** 2BL, Sydney, 50 kW. Female speech //594 at decent level at 1348 on 8/22, but terrible 700 splatter
<https://dreamcrafts.box.com/s/9sg1cb7m2z89v75qf1dni7ubul1nsw01>
- 738 **AUSTRALIA** 2NR, Grafton, 50 kW. Very good strength female DU English speech //594 just before propagation collapse at 1352 on 8/21; this was usually quite a bit stronger but typically suffered from (daytimer) KCBS splatter <https://dreamcrafts.box.com/s/x1ebrxba75pp1zmk28af1uh9inem5gk8>
- 765 **NEW ZEALAND** Napier-Hastings Radio Kahungunu, 2.5 kW. Low-powered Kiwi Maori station with one of its best signals ever (even including at Rockwork 4) at 1241 on 8/20. For some unknown reason, it was still fairly energetic even during Oz-favoring conditions
<https://app.box.com/s/p4h9y6deb001xwrzrp3yzeh2co0fu34q>
- 774 **AUSTRALIA** 3LO, Melbourne, 50 kW. Strong female DU English speech //594 at 1253 on 8/21 but suffered from some English lesson QRM from co-channel JOUB at times <https://dreamcrafts.box.com/s/8ds2s1ceoxib8m60nsk94x9n0w58m1fj>
- JAPAN** JOUB, Akita, NHK2, 500 kW. English lesson QRM mixing with 3LO at 1254 on 8/21; only around on one out of three days
<https://dreamcrafts.box.com/s/yrlug1uaue4w8wus762jyigm42skc1oj>
- 792 **AUSTRALIA** 4RN, Brisbane, ABC National, 25 kW. Female speech at strong level //576 at 1306 on 8/20
<https://dreamcrafts.box.com/s/zlthw134uzi6kiqiyw7q8h09wio7315e>
- 891 **AUSTRALIA** 5AN, Adelaide, 50 kW. Blowtorch signal with ABC local programming information swamping the Ultralight's front end at 1332 on 8/21 (its strongest signal ever received in 15 DXpeditions) <https://app.box.com/s/ro04jx3x4ueqcgue1lfgztlnj33txzf>
- 963t **NEW ZEALAND** Christchurch, 'Star'. Good strength with apparent Christian music at 1327 on 8/22 but unable to confirm the 657 parallel due to heavy splatter <https://dreamcrafts.box.com/s/ytgj3qnkpt4pa2gmn4eyyedz316odb8f>
- 1026 **AUSTRALIA** 4MK, Mackay, 5 kW. A big surprise with rock music pushing S9 during the "20-20 Retro Countdown" just before the propagation collapse at 1352 on 8/22 <https://app.box.com/s/95ypca1ppm765w236es1ojesqvsxju1>
- 1566 **REP KOREA** HLAZ, Jeju, FEBC, 250 kW. Chinese program at very good strength at 1212 on 8/21; only around on one out of three days
<https://dreamcrafts.box.com/s/yybljkqi9elbgjy4essr6ujkpi8gtoao>. Japanese female speech at a blowtorch level at 1232 on the same day (8/21)
<https://dreamcrafts.box.com/s/yybljkqi9elbgjy4essr6ujkpi8gtoao>

1575 **THAILAND** Ban Phachi, VOA, 1000 kW. Male Asian language speech at fair to good level at 1234 on 8/21
<https://dreamcrafts.box.com/s/12dbht7w77ft5f17ygorpknk7cdrmoxr>
 1593p **CHINA** Changzhou, CNR1, 600 kW (presumed). Chinese-inflected speech at weak level at 1225 on 8/21
<https://dreamcrafts.box.com/s/iesfrbk2j5wx52dep4tdxh9sol0ripx>



SPORTCHANNELS IRCA – Compiled by: Eric Bueneman (NØUIH)
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Welcome to another edition of SportChannels! Football season is under way, and we're continuing with the NFL network lists; in this edition, we're featuring the AFC South and NFC South. Flagship stations are in **boldface** type, Spanish language flagships in **boldface italics**, Spanish language affiliates in *italics*.

AMERICAN FOOTBALL CONFERENCE – SOUTHERN DIVISION

HOUSTON TEXANS English: Marc Vandermeer, Andre Ware, John Harris, Spanish language play-by-play personnel info unavailable, Web: houstontexans.com

AM	1230 KSIX Corpus Christi, TX	1470 KWRD Henderson, TX	99.9 KSHN Liberty, TX
550 KCRS Midland, TX	1240 KVLF Alpine, TX	1510 KBED Nederland, TX	100.3 KILT-FM Houston, TX
610 KILT Houston, TX	1250 KZDC San Antonio, TX	<i>1540 XESTN Monterrey, NL</i>	101.1 KLOL Houston, TX
<i>690 XEN Mexico, DF</i>	1260 KKSA San Angelo, TX	1590 KGAS Carthage, TX	101.3 K267AI Moody, TX (2)
<i>700 XEDKR Guadalajara, JA</i>	1260 KSML Diboll, TX	1590 KLRK Mexia, TX	<i>103.1 KHHL Karnes City, TX</i>
710 KURV Edinburg, TX	1280 KWHI Brenham, TX	1600 KOGT Orange, TX	103.9 KMHT-FM Marshall, TX
940 KIXZ Amarillo, TX	1300 KVET Austin, TX	FM	103.9 KRIA Plainview, TX
<i>970 XEJ Ciudad Juarez, CH</i>	1390 KULP El Campo, TX	92.3 KETX-FM Livingston, TX	106.9 KLUB Bloomington, TX
1130 KWKH Shreveport, LA	1400 KBYG Big Spring, TX	92.5 KMWX Abilene, TX	107.9 KFAN-FM Johnson City, TX
1150 KZNE College Station, TX	1410 KLVQ Athens, TX	93.5 KBPC Crockett, TX	
1180 KGOL Humble, TX	1450 KIKR Beaumont, TX	94.5 K233DB San Antonio, TX (1)	
1230 KLVT Levelland, TX	1450 KMHT Marshall, TX	98.1 KKCL-FM Lorenzo, TX	

Relays: 1) KZDC 1250, 2) KLRK 1590

INDIANAPOLIS COLTS No play-by-play personnel information available, Web: colts.com

AM	1460 WJCP North Vernon, IN	96.1 WQLK Richmond, IN	102.9 W275AJ Muncie, IN (4)
680 WHBE Newburg, KY	1490 WDAN Danville, IL	96.7 WORX Madison, IN	103.3 WAXL Santa Claus, IN
860 WMRI Marion, IN	1550 WLTI New Castle, IN	97.1 WLHK Shelbyville, IN	103.9 WIMC Crawfordsville, IN
1070 WFNI Indianapolis, IN	FM	97.7 WSSM Goshen, IN	103.9 WRBI Batesville, IN
1090 WCRA Effingham, IL	92.1 WROI Rochester, IN	97.9 WSLM-FM Salem, IN	105.5 WZJK West Terre Haute, IN*
1190 WOWO Fort Wayne, IN	92.1 WZDM Vincennes, IN	98.5 WMYK Peru, IN	105.7 WCJZ Tell City, IN
1280 WGBF Evansville, IN	92.7 WZBD Berne, IN	98.7 WASK-FM Battle Ground, IN	105.7 WHBE-FM Eminence, KY
1320 WBRT Bardstow, KY	93.5 W228CX Indianapolis, IN (1)	99.5 W258CQ Neoga, IL (3)	105.9 WJOT-FM Wabash, IN
1340 WBIW Bedford, IN	93.5 WMXQ Hartford City, IN	100.5 W263AQ Effingham, IL (3)	106.5 WWBL Washington, IN
1340 WXFN Muncie, IN	94.3 WREB Greencastle, IN	100.9 WZUS Macon, IL	106.7 WYFX Mount Vernon, IN
1370 WGCL Bloomington, IN	94.5 WRZR Loogootee, IN	102.3 WYXX New Carlisle, IN	107.5 W298BJ Fort Wayne, IN (5)
1440 WPGW Portland, IN	95.9 WEFM Michigan City, IN	102.5 WMDH New Castle, IN	
1450 WXVW Jeffersonville, IN	96.1 W241CK Jeffersonville, IN (2)	102.7 WAOR Ligonier, IN	

Relays: 1) WFNI 1070, 2) WXVW 1450, 3) WCRA 1090, 4) WXFN 1340, 5) WOWO 1190, **Note:** * denotes Colts' list has old call WWVR

JACKSONVILLE JAGUARS No play-by-play personnel information available, Web: jaguars.com

AM	FM	99.9 WGNE Middleburg, FL
580 WDBO Orlando, FL	92.1 WDDQ Adel, GA	102.1 W271CJ Saint Augustine, FL (3)
850 WRUF Gainesville, FL	92.5 WJXL-FM Jacksonville Beach, FL	104.1 WGLF Tallahassee, FL
1010 WJXL Jacksonville Beach, FL	94.3 WNFB Lake City, FL	106.3 W292DE Palm Coast, FL (4)
1060 WIXC Titusville, FL	95.3 W237EJ Gainesville, FL (1)	106.3 WKBX Kingsland, GA
1150 WJEM Valdosta, GA	95.7 WHOG-FM Ormond-by-the-Sea, FL	106.5 WZBX Rocky Ford, GA
1230 WAYX Waycross, GA	96.3 W242BE Waycross, GA (2)	107.5 WJHC Jasper, FL
1240 WFOY Saint Augustine, FL	96.5 WDBO-FM Orlando, FL	
1550 WNZF Bunnell, FL		

Relays: 1) WRUF 850, 2) WAYX 1230, 3) WFOY 1240, 4) WNZF 1550

TENNESSEE TITANS Mike Keith, Web: titansonline.com

AM	1230 WAKI McMinnville, TN	92.9 WMFS-FM Bartlett, TN	104.1 W281BT Clarksville, TN (6)
540 WKFN Clarksville, TN	1260 WDKN Dickson, TN	93.5 W228DG Waverly, TN (2)	104.1 WCLE-FM Calhoun, TN
640 WXSM Blountville, TN	1280 WMCP Columbia, TN	94.3 WJJM-FM Lewisburg, TN	104.5 WGFY Gallatin, TN
680 WMFS Memphis, TN	1290 WCBL Benton, KY	95.9 WRJB Camden, TN	105.3 WPTQ Glasgow, KY
730 WUMP Madison, AL	1320 WMSR Manchester, TN	96.5 W243CU Henderson, KY (3)	105.5 WYTM-FM Fayetteville, TN
770 WVNN Athens, AL	1340 KLID Poplar Bluff, MO	96.7 WNKX-FM Centerville, TN	105.7 W289BQ Morristown, TN (7)
790 WMC Memphis, TN	1340 WCDD Winchester, TN	97.7 WREF Seabee, KY*	105.7 WQAK Union City, TN
860 WSON Henderson, KY	1400 WIEL Elizabethtown, KY	98.7 WOKI Oliver Springs, TN	106.1 W291CU Elizabethtown, KY (8)
990 KIKI Honolulu, Oahu, HI	1420 WVJS Owensboro, KY	98.9 WANT Lebanon, TN	106.5 WKDZ-FM Cadiz, KY
1050 WWIC Scottsboro, AL	1490 WCOR Lebanon, TN	99.5 W258AN Paducah, KY (4)	106.7 WTNX Lawrenceburg, TN
1060 WQMV Waverly, TN	1560 WPAD Paducah, KY	100.5 WJQX Helena, AL	106.9 WKXD Monterey, TN
1150 WCRK Morristown, TN	FM	102.3 WGOW-FM Soddy-Daisy, TN	107.3 WQLT Florence, AL
1150 WGOW Chattanooga, TN	92.5 WVNN-FM Trinity, AL	102.3 WZDQ Humboldt, TN	107.9 W300BL Manchester, TN (9)
1220 WFWL Camden, TN	92.9 W225CL Owensboro, KY (1)	103.9 W280BA Madison, AL (5)	

Relays: 1) WVJS 1420, 2) WQMV 1060, 3) WSON 860, 4) WPAD 1560, 5) WUMP 730, 6) WKFN 540, 7) WCRK 1150, 8) WIEL 1400, 9) WMSR 1320,
Note: Titans' list has old call WWKY

NATIONAL FOOTBALL CONFERENCE – SOUTHERN DIVISION

ATLANTA FALCONS Wes Durham, Dave Archer, Web: atlantafalcons.com

92.9 WZGC Atlanta, GA only

TAMPA BAY BUCCANEERS Gene Deckerhoff, Dave Moore, TJ Rives, Web: buccaneers.com

AM	1450 WWJB Brooksville, FL	FM	95.3 WXCW Homosassa Springs, FL
740 WYGM Orlando, FL	1480 WFLN Arcadia, FL	92.3 W222BR Pensacola, FL (1)	97.9 WXTB Clearwater, FL
770 WJBX North Fort Myers, FL	1590 WPSL Port Saint Lucie, FL	93.3 WVFT Gretna, FL	99.3 WWCN Fort Myers Beach, FL
1430 WLKF Lakeland, FL	1620 WNRN Gulf Breeze, FL	95.3 W237BE Brewton, AL (1)	

Relay: 1) WNRN 1620

CAROLINA PANTHERS Mick Mixon, Eugene Robinson, Web: panthers.com

AM	1280 WSAT Salisbury, NC	93.7 WOCS-LP Orangeburg, SC	102.3 WWMY Beech Mountain, NC
570 WWNC Asheville, NC	1340 WYNF Augusta, GA	94.1 W231CE Lynchburg, VA (2)	102.3 WMFX Saint Andrews, SC
580 WLVA Lynchburg, VA	1340 WHAP Hopewell, VA	94.3 WSCC-FM Goose Creek, SC	102.7 WPUB-FM Camden, SC
590 WCAB Rutherfordton, NC	1390 WOHS Shelby, NC	97.3 W247AD Roanoke, VA (3)	103.3 WKVS Lenoir, NC
610 WPLY Roanoke, VA	1400 WSIC Statesville, NC	98.5 W253BE Salem, VA (3)	103.7 WTIB Williamston, NC
810 WPIN Dublin, VA	1410 WTIK Concord, NC	99.3 WBT-FM Chester, SC	105.9 W290CU Christiansburg, VA (1)
920 WYMB Manning, SC	1430 WKEX Blacksburg, VA	99.3 WZAX Nashville, NC	106.1 WFXH Hilton Head Island, SC
960 WRNS Kinston, NC	1450 WHKP Hendersonville, NC	99.9 WCMC-FM Holly Springs, NC	106.3 WUDE Bolivia, NC
1010 WSPC Albemarle, NC	1450 WIZS Henderson, NC	100.1 WWFN Florence, SC	107.1 WTKF Atlantic, NC
1050 WLON Lincolnton, NC	1590 WCSL Cherryville, NC	100.3 WSEA Atlantic Beach, SC	107.3 WVSV Chesterfield, SC
1110 WBT Charlotte, NC	FM	100.7 W264CU Statesville, NC (4)	107.7 W299BZ Hendersonville, NC (5)
1230 WNNC Newton, NC	92.3 WKRR Asheboro, NC	100.9 WIFM-FM Elkin, NC	107.7 WUKS Saint Paul's, NC
1240 WJNC Jacksonville, NC	93.1 W226AT Christiansburg, VA (1)	101.1 WROQ Anderson, SC	
1250 WKDX Hamlet, NC	93.7 WNTB Topsail Beach, NC	102.3 WPTM Roanoke Rapids, NC	

Relays: 1) WKEX 1430/WPIC 810, 2) WLVA 580, 3) WPLY 610, 4) WSIC 1400, 5) WHKP 1450

NEW ORLEANS SAINTS English: Jim Henderson, Deuce McAllister, Kristian Garic, Bobby Hebert, Spanish: Marco Antonio Garcia, Juan Carlos Ramos, Web: neworleanssaints.com

AM	1010 WMOX Meridian, MS	94.1 KRLQ Hodge, LA	99.5 KNGT Lake Charles, LA
540 KMLB Monroe, LA	1400 WFDM Fort Walton Beach, FL	95.1 WQNZ Natchez, MS	101.1 W266AL Pensacola, FL (1)
620 WJDX Jackson, MS	1440 WRBE Lucedale, MS	95.3 KQKI-FM Bayou Vista, LA	102.1 WALT-FM Meridian, MS
640 KTIB Thibodaux, LA	1450 WBSR Pensacola, FL	96.9 KZMZ Alexandria, LA	105.3 WWL-FM Kenner, LA
870 WWL New Orleans, LA	FM	97.3 KMDL Kaplan, LA	106.9 WRBE-FM Lucedale, MS
910 WALT Meridian, MS	92.1 KLIL Moreauville, LA	98.1 WDGL Baton Rouge, LA	107.7 WAZA Liberty, MS
920 WBOX Bogalusa, LA	92.5 KVPI-FM Ville Platte, LA	98.1 KTAL-FM Texarkana, TX	
990 WGSO New Orleans, LA	92.9 WBOX-FM Bogalusa, LA	98.3 WJDR Prentiss, MS	

Relay: 1) WBSR 1450

That puts the wrap on this edition of SportChannels. In the next edition, the network lists from the AFC West and NFC West will be presented. 73 and play hard from the Florissant Valley Dial Twister.

SPECIAL FEATURE

CATEGORY 5 ("CAT-5") DATA CABLE AS A WAVE ANTENNA

Mark Durenberger with Mike Shafer and Nick Hall-Patch 0417

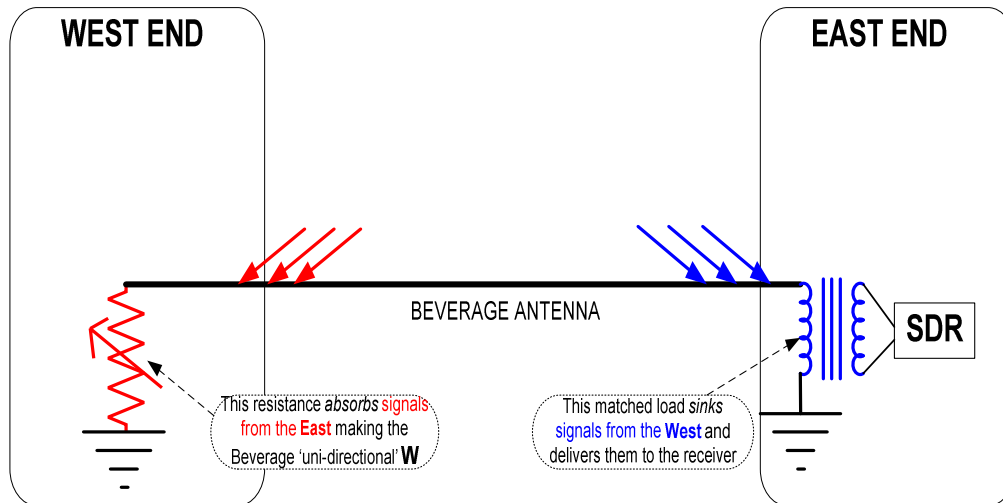
In DXM Vol_55_No_01 Nick Hall-Patch presented his findings on using a shielded twisted-pair cable ("STP") as an "over-the-shoulder" Beverage system. The "over-the-shoulder" ("OTS") antenna is useful when your Beverage can only be deployed *in front of and away from* the shack... but you're seeking signals from *behind* you.

Nick's OTS work was part of several empirical measurement protocols carried out during a late-April 2017 DXpedition to the Utah desert. The first of several Cat-5 projects was to verify the performance of Cat-5 as a **west-sensitive** *remotely-terminated 1000-foot Wave Antenna*, comparing it to a **west-sensitive** "Reference" antenna – a 1000-foot single wire run parallel to the Cat-5.

We then wanted to determine whether we could use two Cat-5 pairs to create an OTS antenna so we could compare it to Nick's results. This meant the Cat-5 would be **east-sensitive**; signals would be collected at the far end and returned to the shack via a Cat-5 pair, as was done with Nick's STP.

With these and other projects planned, one might conclude this was a fairly ambitious DXpedition, even before we got to DXing. It was. And Murphy hardly got in the way more than once or twice.

To create an OTS situation, readers may question why one couldn't operate the Beverage *unterminated bi-directional* and just grab the **east** signals after they're reflected back from the far end. Here's the problem: That "reflection" can be like an echo; it *will* return down the wire, but with diminished energy. And of course operating 'unterminated' in order to do that would mean you couldn't take advantage of the **uni-directional** promise of the Beverage. So you're open to a lot of potentially-undesirable signals. **Figure 1** explains the situation in well less than 1000 words:



You can remove the resistor so that **east** signals are not absorbed; they will turn around and go back down the wire to the receiver...with reduced energy.

FIGURE 1

Now look at **Figure 2**. Again, we're searching for **east** signals at the Shack SDR that are coming from behind us. (We also want to get rid of unwanted **west** signals):

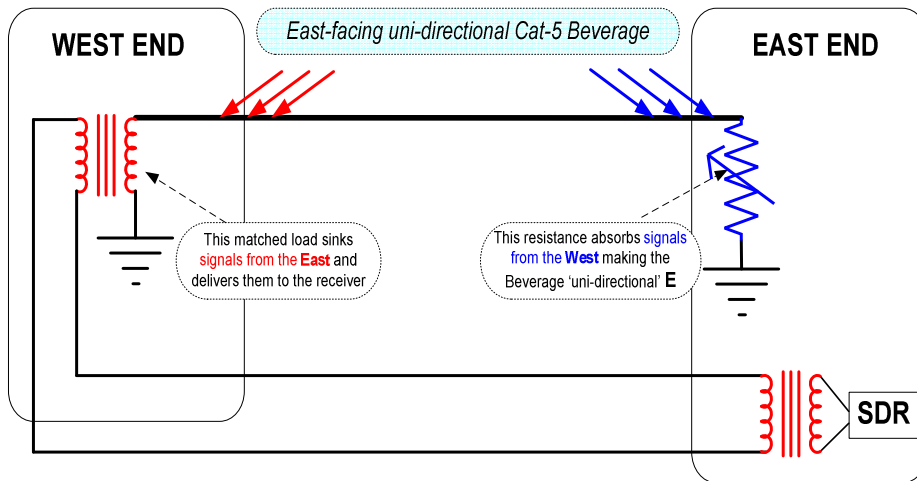


FIGURE 2

This is the basic “over-the-shoulder” arrangement.

SOME BACKGROUND: Nick had been considering the use of a single-cable system using a shielded, twisted-pair cable (“STP”), with the shield as the Wave Antenna and the internal twisted pair as the return line. He wanted to test this in a controlled environment.

While Nick was evaluating this concept at DXpeditions on Prince Edward Island and at Grayland, I was separately considering the use of Cat-5 for the same purpose. Additionally, it was hoped we could use the unused Cat-5 pairs to create a *second*, independent Wave Antenna. We would then be able to use this inexpensive and durable cable to create both a standard Beverage antenna *and* the OTS antenna (the complete plan is in Figure 7).

Mike Shafer supported an opportunity to carry the investigations into the eastern Utah desert, to a low-noise area with plenty of room to deploy the antennas. We spent much of a week there in late April 2017, evaluating STP and Cat-5 approaches. Nick’s OTS results are in the **DX Monitor story** and below you’ll see what we learned from the Cat-5 version.

THREE PHOOLS IN THE PHIELD: The first of the Cat-5 configurations to be evaluated was performance as a *remotely-terminated 1000-foot Wave Antenna* (Figure 3): When a multi-pair (unshielded) cable is used, one (or more) wires or wire-pairs is the antenna (in our case Pair 2 wires were twisted together for this purpose). An additional wire pair is used to control a “Vactrol” device for remote-termination at the far end of the Beverage. It’s a simple arrangement and it works well, as has been demonstrated by several DXers.

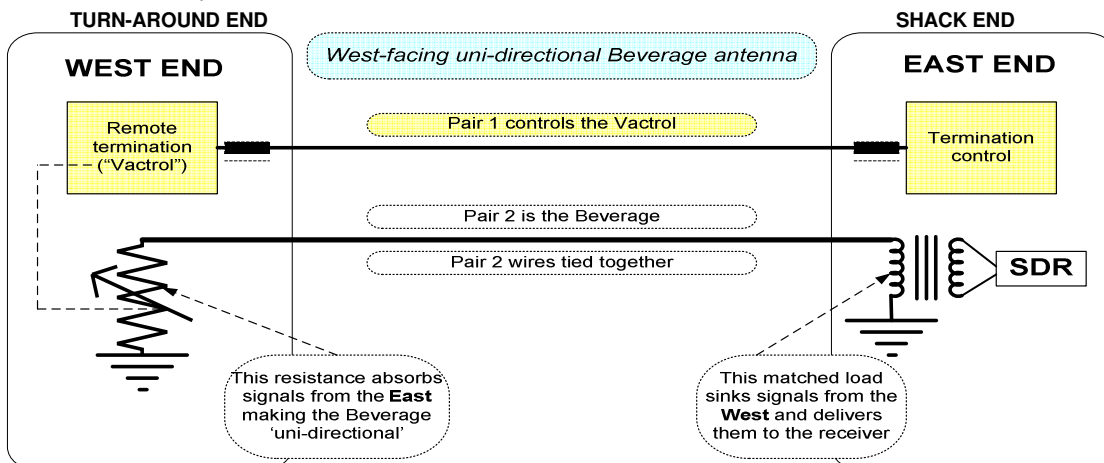


FIGURE 3

KNZZ 1100 Grand Junction was used as our *east* “beacon” for Front/Back (“F/B”) measurements since it was a solid *mid-band* signal. Our *mid-band west* “beacon” was KSLI 1080, Price Utah, 90 miles away (there just weren’t a lot of good signals to choose from)!

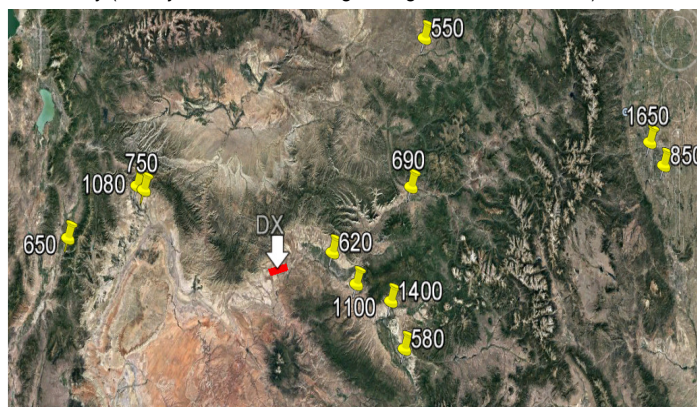


FIGURE 4

The target signals used for comparative measurements, showing their relationship to the antenna. (The antenna is represented by the exaggerated red line – 255 degrees.)

To verify Cat-5-Beverage performance, we deployed a 1000-foot “classic Beverage” wire antenna 30 feet away from, and parallel to, the Cat-5. Both antennas were elevated and *west-sensitive*. Signal levels were taken directly from the Perseus SDR, in “*dbm*” below. Measurements were first taken in the bi-directional (“unterminated”) mode; then antennas were terminated and KNZZ 1100 (from the East) was nulled for F/B.

REFERENCE				YIKES!!		
FREQ and direction	1000ft wire-Bev unterminated	1000ft wire-Bev 1100 nulled	F/B-db	1000ft Cat-5 Bev unterminated	1000ft Cat-5 Bev-1100 nulled	F/B-db
550-E	-62	-73	11	-67	-66	-1!
580-E	-60	-70	10	-63	-63	0
620-E	-37	-50	13	-37	-45	8
650-W	-66	-66	N/A	-66	-73	N/A
690-E	-59	-72	13	-62	-76	14
750-W	-60	-60	N/A	-62	-62	N/A
850-E	-82	-101	19	-86	-88	2
1080-W	-67	-67	N/A	-69	-70	N/A
1100-E	-45	-58	13	-48	-74	26
1400-E	-73	83 co	10	-78	-82	4
1650-E	-84	-100 co	21	-90	-95	5

FIGURE 5 – (“N/A” is signals from the opposite, irrelevant direction)

Well... the Cat-5 above **didn't look so hot** compared to the Reference Beverage so we looked at what made it so different. We realized the only dissimilarity was that *there were other wires in that Cat-5 cable*, coaxial with the Pair 2 antenna. We also recalled that Cat-5 cable pairs have electrical characteristics making them suitable for use as higher-frequency transmission lines. However, for coincident cable pairs to *operate independently of each other*, they must all be kept 'balanced' (both wires in a pair must have an identical electrical relationship to ground). We knew Pair 1 was isolated via common-mode chokes, so we looked at potential 'interference' from Pairs 3 and 4 (these were terminated at their ends but not in use).

In the true tradition of empirical experimenters, we had to spend a good deal of time in standing around and head-scratching before that "aha!" moment. We had sidestepped the "balancing" rule in *twisting together the wires in Pair 2* for its use as an antenna. Pair 2 was no longer balanced and could not operate with immunity from "crosstalk" from other unbalanced pairs. So it was **PHOOLS '1' – MURPHY '0'**

(A note about those Front/Back measurements: In our experience with terminated desert Beverage antennas over the years, we've been fortunate to exceed 20 db F/B at any frequency; perhaps due to velocity-factor considerations imposed by ground conductivity.)

The **green columns** in Figure 6 tell the story when Pairs 3 and 4 were disconnected. The **Red** columns are original Figure 5 results repeated here for comparison.

FREQ and direction	1000ft wire-Bev unterminated	Comparative signal strength			Comparative F/B	
		F/B-db	1000 ft. Cat-5 Bev Pairs % floating	Cat-5 From Fig 5	F/B-Prs % floating	F/B From Fig 5
550-E	-62	11	-62	-67	14	-1!
580-E	-60	10	-57	-63	15	0
620-E	-37	13	-34	-37	18	8
650-W	-66	N/A	-65	-66	N/A	N/A
690-E	-59	13	-59	-62	12	14
750-W	-60	N/A	-61	-62	N/A	N/A
850-E	-82	19	-83	-86	14	2
1080-W	-67	N/A	-67	-69	N/A	N/A
1100-E	-45	13	-44	-48	15	26
1400-E	-73	10	-75	-78	11+	4
1650-E	-84	21	-90	-90	12	5

FIGURE 6 – Cat-5 as a Beverage Antenna

Note the (predicted) increasing loss of Cat-5 received signal with increasing frequency. *But this discovery boded ill for the rest of the ambitious Cat-5 project.* As we explained at the outset, the *original ambitious Cat-5 plan (Figure 7)*, was the plan for a remotely-terminated Wave Antenna as well as a simultaneous OTS antenna (bottom).

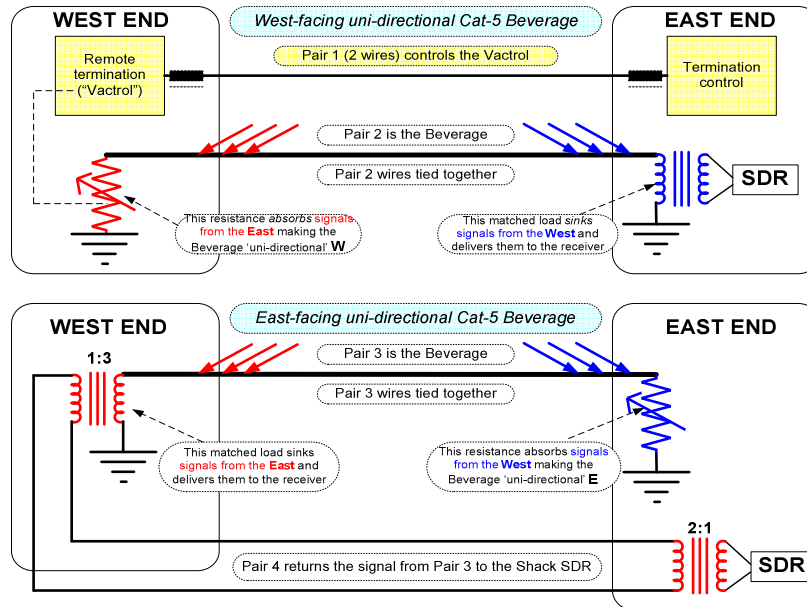


FIGURE 7

Facing a reality we should have foreseen, we realized that Cat-5 with an "unbalanced" (twisted-together) wire pair would work fine as a classic Beverage, as we proved... **but** we wouldn't be able to add a *second* twisted-together pair, for the desired simultaneous antenna. The two unbalanced wires would couple together.

Now it was **PHOOLS '1' – MURPHY '1'**

Perhaps our off-line, white-lipped technical advisors would have suggested *balancing* Pair 2 and Pair 3 and deriving their RF signals from a center-tapped transformer at the ends. That might mean that all pairs in the Cat-5 would remain electrically independent of each other. But the desert is a harsh and whimsical mistress and Mother Nature blessed us with an almost-constant, unremitting wind during our daytime tests... convincing us elder mortals that we needed to 'get on with it.' So we scurried instead to the next test; the Cat-5 as an "over-the-shoulder" antenna... knowing we had to "float" or balance Pairs 1 and 2 during the OTS test (and these measurements had become particularly important due to the disappointing outcome of Nick's shielded OTS version.)

We now compared the Cat-5 as an **unterminated OTS (east-sensitive)** with the signals from the Reference unterminated wire-Beverage. (To turn the Reference antenna into an **east-sensitive** wire, we would measure the unterminated wire-Beverage on the **west** end.)

We knew from the comparison in **Figure 6** that the Cat-5 and the Reference Beverage *delivered approximately the same signal levels*, so we had a baseline for comparison. The Figure of Merit then would be the difference between *east signals measured at the west end*, and *east signals delivered to the shack via the Cat-5 OTS*.

FREQ-Direction	Unterminated antennas measured at west end	Cat-5 OTS, "turned around" and measured at east end.	Loss thru Cat-5 OTS (db)
550-E	-61	-65	4
580-E	-58	-61	3
620-E	-35	-41	6
650-W	-67	-74 +co	7
690-E	-58	-65	7
750-W	-61	-68	7
850-E	-80	-86	6
1080-W	-71	-78	7
1100-E	-42	-48	6
1400-E	-68	-77	9
1650-E	-95	-108	13

FIGURE 8 – Loss from Cat-5 return transmission line

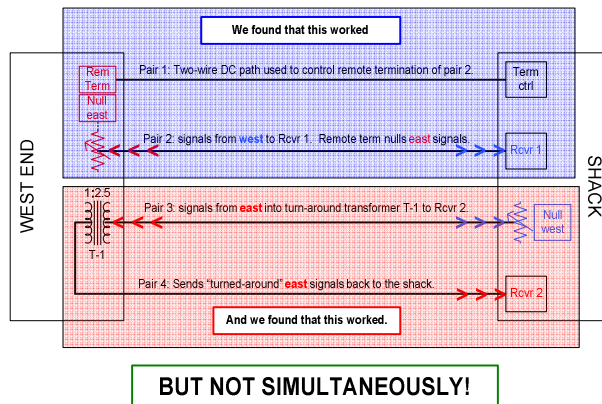
Signals are from both directions. Since the return transmission line was well-balanced it is believed to reject incident signals that might hit it if it were acting as an antenna.

DISCUSSION/CONCLUSIONS:

- 1000 feet of Cat-5 does exhibit a transmission-line loss... though less than that predicted by the manufacturer's specs. Note the increasing loss with frequency in the **Figure 8** right column. Cat-5 measurements for MW return-link loss have been performed independently elsewhere, and the losses were identical or sometimes a bit higher. They range from 5 to 10 db per 1000 feet and *may* possibly be higher if the Cat-5 is on the ground as a BOG (ours was elevated).
- A potential "mouse in the room" *might* be the effect of standing waves on the OTS return-line. Because the 1000 feet of twisted pair in that return link is significant in terms of wavelength, and because we may not have always been able to *perfectly* match the twisted pair to the input of the receiver, we *might* have seen *small* standing waves at the receiver. To bring this up is not to question our results but merely to suggest that, in such endeavors, it's hard to know that you have truly identified all variables. So it's included, for what it's worth. And at least we tie-scored with Murphy.

Still, these numbers suggest that an "over-the-shoulder" antenna using Cat-5 is a practical approach when you're faced with a DX location where an OTS is the only solution. And if one is concerned about Cat-5 RF loss impacting the readability of signals close to the noise floor, it may be appropriate to add an RF amplifier at the turn-around point, to overcome Cat-5 pair loss.

THE BOTTOM LINE:



A follow-on report will suggest the *switching* to remotely-control a bi-directional Cat-5 Wave Antenna, for cases where: **A)** "over-the-shoulder" reception is useful during one part of the day but: **B)** uni-directional terminated-Beverage action is desired at a different time.

As to all the "test" time we spent testing, we didn't begrudge those efforts. Edward Abbey says: "**Research, empirical logic, the courage to experiment are as old as humanity.**"

Abbey or not, in the spectrum of antenna-testing, the Theorists and the Empiricists are the "poles apart people" who make our hobby fun. I'm squarely on the side of the Empiricists but not too proud to call on the Theorists before wasting a lot of time. To the credit of IRCA, there are among its members a number of folks who can predict in theory what should happen... but who are accepting of what actually turns up in the field. I'm proud to call them my friends.

The **DXing** part of the desert experience? When we finally got to that, it was generally quite favorable. Nick and I separately over-nighted in the desert, sniffing at what was coming out of a 2500-foot terminated Beverage. We did pretty well. And you won't be surprised to learn that Nick's ready to return to the desert, to dot some "i's" and cross a couple of "t's." Hopefully we'll pick a time when the wind isn't nasty and he'll be able to try out his new Japanese-language skills on the sagebrush.

Finally, Mike Shafer's hospitality was again without parallel. When we arrived at the site Mike and his friend had already staked out the 255-degree Beverage runs. *Many* thanks!



Cheerfully submitted! Mark Durenberger, on behalf of Mike Shafer and Nick Hall-Patch **Mark4@durenberger.com**



THE 2016 IRCA COUNTRIES LIST

Compiled by Bruce Portzer, Countries List Chairman

Here is the latest version of the IRCA Countries List. This list was originally developed in the 1960's as a guide for club members in their quest for foreign medium wave targets. It has since been updated periodically. The list is organized into three sections: active, inactive, and deleted countries. For each country, I've listed its continent in brackets, and noted any former or alternate names. Any date restrictions are also noted (such as when the country was formed or ceased to exist). There are also a few instances where I've added comments clarifying a country's status.

A place qualifies for inclusion on the list if it meets one or more of the following criteria:

1. It is internationally recognized as independent, either because it is a member of the United Nations or International Telecommunications Union (ITU), or has diplomatic relations with multiple countries.
2. It has a high degree of internal autonomy. This characteristic can be for historical reasons, such as the various parts of the UK, or established through formal agreement, such as Hong Kong or Macao. A portion of a country may also qualify based on de facto autonomy, even if the parent country does not recognize it as such. Taiwan, for example. This qualification is largely a judgment call based on the amount of self-rule and political stability.
3. It is separated from the rest of the country by at least 200 km of open water (no other islands between it and the mainland), such as Hawaii, or 100 km of land, such as Alaska.
4. It is a colony, dependency, protectorate, or other overseas territory, such as Guam or Gibraltar. These places will only be listed if they currently have a MW radio station, have had one or more stations in the past, or have sufficient residents (permanent or temporary) to justify broadcast facilities. As a result, this list doesn't include most of the small islands and other uninhabited territories that appear on the ARRL list.
5. It is under international or other special administrative control, such as Antarctica.
6. It has historically been considered a separate DX "country", even though it doesn't seem to meet any of the above criteria ("We do it that way because that's the way it's always been done").

Country list junkies are welcome to examine the following four lists. Each has its own set of criteria, resulting in some interesting differences and similarities.

- The ARRL Country List: This list is used mainly for issuing DX Century Club awards. The criteria are well-thought out, but hotly debated in the ham community. It includes a large number of obscure uninhabited specks of land that are otherwise unnoticed.
- The NASWA Radio Country List: This is a list of countries with active shortwave broadcasters, past and present.
- The Travelers' Century Club List: This organization gives certificates to those who have visited at least 100 countries. The most recent list has 350 places listed.
- How many countries are there? This list analyzes several sources, including the ARRL/DXCC and TCC lists, and concludes that there could be anywhere from 191 to 493 countries, depending on what you count.

Any comments or questions on the list should be addressed to portzerbt@gmail.com

ACTIVE COUNTRIES

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

Afghanistan [AS]
 Alaska [NA]
 Albania [EU] – may leave MW soon if it hasn't already
 Algeria [AF]
 Andaman and Nicobar Islands (part of India) [AS]
 Angola [AF]
 Anguilla [NA]
 Antigua and Barbuda [NA]
 Argentina [SA]
 Armenia [AS]
 Australia [OC]
 Azerbaijan [AS]
 Azores [EU]
 Bahamas [NA]
 Bahrain [AS]
 Balearic Islands (part of Spain) [EU] – Includes Majorca
 Bangladesh (formerly East Pakistan) [AS]
 Barbados [NA]
 Belgium [EU]
 Benin (formerly Dahomey) [AF] – after 8-1-60
 Bermuda [NA]
 Bolivia [SA]
 Bonaire [SA] – became a separate "country" 10-10-10
 Bosnia-Herzegovina [EU] – receptions before 10-15-91 count as Yugoslavia
 Botswana (formerly Bechuanaland) [AF]
 Brazil [SA]
 British Virgin Islands [NA]
 Bulgaria [EU]
 Cambodia (formerly Kampuchea) [AS] – MW reactivated early 2016
 Canada [NA]
 Canary Islands [AF]
 Ceuta (part of Spain, located in Morocco) [AF]
 Chile [SA]
 China [AS]
 Christmas Island (located in Indian Ocean) [OC]
 Colombia [SA]
 Cook Islands [OC] – The North Cook Islands are far enough from South Cooks to qualify as a separate country, but there are no known stations there
 Corsica [EU]
 Costa Rica [NA]
 Crete (part of Greece) [EU]
 Croatia [EU] – after 6-26-91
 Cuba [NA]
 Curacao [SA] – after 10-10-10. Earlier logs count as Netherlands Antilles
 Cyprus [AS]
 Czech Republic [EU] – after 1-1-93, earlier loggings count as Czechoslovakia
 Denmark [EU] – Inactive on MW as of 6-30-11, but still active on LW. Some low-power MW stations are planned for late 2017
 Djibouti (formerly French Somaliland, Afar and Issas) [AF]
 Dodecanese Islands (part of Greece, includes Rhodes) [EU]

Dominican Republic [NA]
 Ecuador [SA]
 Egypt [AF]
 El Salvador [NA]
 England [EU]
 Eritrea [AF] – became part of Ethiopia 11-14-62, then gained independence 9-15-93
 Estonia [EU]
 Ethiopia [AF]
 Faroe Islands [EU]
 Fiji [OC]
 Finland [EU] – a low-power MW station started operation in 2016
 France [EU]
 Gabon [AF] – after 8-17-60
 Georgia [AS]
 Germany [EU] – Formerly German Federal Republic (West Germany). GDR and West Berlin were added in 1990
 Gibraltar [EU]
 Greece [EU]
 Greenland (aka Kalaalit Nunaata) [NA] – MW reactivated Fall 2014
 Guam [OC]
 Guantanamo Bay Naval Base [NA]
 Guatemala [NA]
 Guernsey (British Crown Dependency) [EU]
 Guyana (formerly British Guiana) [SA]
 Haiti [NA]
 Hawaii [OC]
 Honduras [NA]
 Hong Kong [AS] – Special Administrative Region of China with a high degree of autonomy
 Hungary [EU]
 Iceland [EU] – resumed on MW in 2016, has been active on LW for a long time
 India [AS]
 Indonesia [AS]
 Iran [AS]
 Iraq [AS]
 Ireland [EU]
 Isle of Man (self-governing British Crown Dependency) [EU]
 Israel [AS]
 Italy [EU]
 Japan [AS]
 Jersey (British Crown Dependency) [EU]
 Jordan [AS]
 Kaliningrad (noncontiguous part of Russia) [EU]
 Kazakhstan [AS]
 Kenya [AF]
 Kiribati (formerly Gilbert Islands) [OC]
 Korea, North (Democratic People's Republic of Korea, DPRK) [AS] – loggings from before the Korean War in the early 1950s count as South Korea
 Korea, South (Republic of Korea) [AS]
 Kosovo [EU] – Former Serbian province, under UN-supervised administration 1999-2008. Independent country since 17 Feb 2008. Reported active on MW in mid-2017
 Kuwait [AS]
 Kyrgyzstan (formerly Kirghiz SSR, Kirgizia) [AS]
 Lakshadweep (aka Laccadive Islands) (part of India) [AS]
 Laos [AS]
 Latvia [EU]
 Lebanon [AS]
 Lesotho (formerly Basutoland) [AF]
 Libya [AF]
 Lithuania [EU]
 Macedonia [EU] – after 9-8-91, earlier loggings count as Yugoslavia
 Madagascar (aka Malagasy Republic) [AF] – may be inactive on MW
 Madeira [AF] – possibly inactive
 Malawi (formerly Nyassaland) [AF]
 Malaysia, East [AS] – after 9-16-63, consists of Sabah and Sarawak
 Malaysia, West [AS] – after 9-16-63, consists of peninsular Malaysia
 Maldives [AS]
 Malta [EU]
 Mauritania [AF] – after 6-20-60
 Marshall Islands [OC]
 Mayotte (aka Mahore) [AF]
 Melilla (part of Spain, located in Morocco) [AF] – See Morocco listing in WRTH
 México [NA]
 Micronesia, Federated States of (formerly Eastern Caroline Islands) [OC]
 Moldova (formerly Moldavia) [EU]
 Mongolia [AS]
 Morocco [AF]
 Mozambique [AF]
 Myanmar (formerly Burma) [AS]
 Nepal [AS]
 Netherlands [EU]
 New Zealand [OC]
 Nicaragua [NA]
 Nigeria [AF]
 Norfolk Island [OC]
 Northern Ireland (part of UK) [EU]
 Northern Mariana Islands [OC]
 Norway [EU] – Still active on LW, but no more MW except for short-term operations
 Oman [AS] – includes Masirah Island and Musandam Peninsula
 Pakistan (formerly West Pakistan) [AS]
 Panamá [NA]

Papua New Guinea [OC]
 Paraguay [SA]
 Péru [SA]
 Philippines [AS]
 Poland [EU]
 Portugal [EU]
 Pridnestrovie (aka Transnistria, Trans-Dniester) [EU] – A self-governing independent region of Moldova. Considers itself an independent country though not recognized as such by the Moldovan government or most international organizations
 Puerto Rico [NA]
 Qatar [AS]
 Rodrigues Island [AF] – Part of Mauritius, separated by 500+ km of ocean
 Romania [EU]
 Russia, Asiatic [AS]
 Russia, European [EU] – the Ural Mountains are the dividing line between Asia and Europe
 Samoa (Formerly Western Samoa) [OC]
 San Andres and Providencia (part of Colombia) [NA]
 Sao Tome and Principe [AF]
 Sardinia (part of Italy) [EU]
 Saudi Arabia [AS]
 Scotland [EU]
 Serbia [EU] – Montenegro declared independence from Serbia/Yugoslavia 6-3-06. Earlier loggings of Serb stations count as Yugoslavia. At least one MW station active in May 2017
 Seychelles [AF]
 Slovakia (aka Slovak Republic) [EU] – after 1-1-93, earlier loggings count as Czechoslovakia
 Slovenia [EU] – after 6-26-91, earlier loggings count as Yugoslavia
 Solomon Islands [OC]
 South Africa [AF] – includes the homeland republics
 South Sudan [AF] – split off from Sudan and became independent as of 7-9-11
 Spain [EU]
 Sri Lanka (formerly Ceylon) [AS]
 Sudan [AF]
 Svalbard (Spitzbergen) [EU]
 Syria [AS]
 Taiwan (Republic of China) [AS] – includes Quemoy and Matsu
 Tajikistan [AS]
 Tanzania (formerly Tanganyika) [AF]
 Thailand [AS]
 Tonga [OC]
 Trinidad and Tobago [SA]
 Tunisia [AF]
 Turkey [AS]
 Turkmenistan (formerly Turkmen SSR) [AS]
 Tuvalu (formerly Ellice Islands) [OC] – after 1-1-76
 Uganda [AF]
 Ukraine [EU] – The Crimean Peninsula is still considered part of Ukraine
 United Arab Emirates [AS] – Includes Abu Dhabi, Dubai, Sharjah, et al
 United States of America [NA]
 Uruguay [SA]
 Vanuatu (formerly New Hebrides) [OC]
 Venezuela [SA]
 Vietnam [AS] – includes pre-unification receptions of North Vietnam
 Virgin Islands (US) [NA]
 Wales [EU]
 Yemen [AS] – after 6-22-90, formed when Yemen Arab Republic merged with People's Democratic Republic of Yemen

INACTIVE COUNTRIES

The following countries currently do not have regular medium wave stations, based on information in the World Radio-TV Handbook (WRTH), Euro-African Medium Wave Guide (EMWG), and/or Pacific Asian Log (PAL). Some have had MW stations which are no longer on the air. A few have never, to the best of my knowledge, had a MW station but are listed because they have sufficient permanent or transient population to justify a MW station. The list does not include places with little or no permanent population that have never had a broadcast station.

Abkhazia [AS] – break away region of Georgia, has diplomatic relations with several countries
 Aland Islands [EU] – An autonomous region of Finland. A MW station has been planned for many years but is not currently on the air
 Andorra [EU] – Two high powered MW stations operated here until early 1980s
 Antarctica (and nearby island groups) [OC] – SW/FM only, has had MW in the past
 Aruba [SA] – Now FM only. Receptions before 1-1-86 count as Netherlands Antilles
 Ascension Island [AF] – now FM/SW only
 Austria [EU] – MW operations ended 2009
 Belarus (formerly Byelorussia) [EU] – LW/MW operation ceased 3/31/16
 Belize (formerly Br Honduras) [NA] – FM only
 Bhutan [AS] – SW/FM only
 British Indian Ocean Territory (aka Chagos Islands, includes Diego Garcia) [AS]
 Brunei Darussalam [AS] – now FM only, MW went inactive in 2011
 Burkina Faso (formerly Upper Volta) [AF] – after 8-5-60 – FM only
 Burundi [AF] – FM/SW only
 Cameroon [AF] – FM only
 Cape Verde [AF] – FM only
 Cayman Islands [NA] – FM only
 Central African Republic [AF] – after 8-13-60, has plans to reactivate MW/SW
 Chad [AF]
 Chatham Islands [OC] – FM only
 Christmas Island (Part of Kiribati) [OC]
 Cocos-Keeling Islands [OC] – FM only
 Comoros [AF] – FM only
 Congo, Democratic Republic of the (formerly Zaire, Belgian Congo) [AF] – FM/SW only
 Congo, Republic of [AF] – after 8-15-60, now only FM/SW
 Cyprus, British Sovereign Bases on [EU] – now FM only, includes Akrotiri and Dhekelia
 Cyprus, Turkish Federated State [AS] – a portion of northern Cyprus
 Dominica [NA] – Currently FM only

Easter Island (aka Isla de Pascua, Rapa Nui) [OC] – MW operation ended 2006, FM only
Equatorial Guinea (Rio Muni, mainland portion) [AF] – SW/FM only
Equatorial Guinea (Bioko, offshore island) [AF] – FM only
Falkland Islands (aka Islas Malvinas) [SA] – MW ceased circa 2013
Fernando de Noronha [SA] – Island group in Atlantic, part of Brazil, FM only
French Guiana [SA] – no known MW operations at the moment
French Polynesia (aka Society Islands, includes Tahiti) [OC] – AM operation ceased Dec 2016
Galapagos Islands (part of Ecuador) [SA] – MW/SW ceased some time ago, now FM only
Gambia, The [AF] – FM only
Ghana (formerly Gold Coast) [AF] – FM only
Grenada [NA]
Guadeloupe [NA] – left MW mid-2017
Guinea [AF] – now inactive on MW
Guinea-Bissau (ex-Portuguese Guinea) [AF]
International Waters [OC] – Stations have operated aboard ships near Western Europe (many), Israel (Voice of Peace, 1973-1993), New Zealand (Radio Hauraki, late 1960's) and the Northeastern US (Radio Newyork International, late 1980's). Currently there are no known regular operations from International Waters.
However, the US government has the ability to broadcast on MW from aircraft over international waters.
Ivory Coast (Côte d'Ivoire) [AF] – after 8-7-60 – FM only
Jamaica [NA] – FM only
Johnston Island [OC] – inactive after 1977
Lampedusa [EU] – Italian island near Tunisia. No known MW stations, possibly some FM
Liberia [AF] – SW/FM only
Lord Howe Island [OC] – now FM only
Liechtenstein [EU] – FM only
Luxembourg [EU] – MW operation ceased at end of 2015
Macao [AS] – now FM only, MW went silent circa 2014
Mali [AF] – after 6-20-60 – FM/SW only
Martinique [NA] – FM only
Midway Island [OC] – FM only, MW has been inactive for many years
Monaco [EU] – MW transmitters were actually in France
Montenegro [EU] – after 6-3-06. Earlier loggings count as Yugoslavia. FM only.
Montserrat [NA] – FM Only. All MW transmitters were destroyed by volcanic activity in the 1990s
Namibia (formerly SW Africa) [AF] – FM only
Nauru [OC] – FM only
New Caledonia [OC] – AM operation ceased mid-2017
Niger [AF] – after 8-3-60
Niue [OC] – FM only
Ogasawara (aka Bonin and Volcano Is, includes Iwo Jima) [AS] – no known MW outlets but had them in the distant past
Palau (aka Belau, formerly Western Caroline Islands) [OC] – AM ceased operation in 2013
Palestine [AS] – after 2/1/99. Includes West Bank and Gaza. Earlier logs count as Israel. FM only.
Phoenix Islands (part of Kiribati) [OC] – WXLE operated on Canton Island in 1970s
Pitcairn Island – has FM transmitters and had AM at one time, believe it or not
Réunion [AF] – AM operation ceased in early-mid 2017
Rwanda [AF] – SW/FM only
Saba and Saint Eustasius [NA] – separate country after 10-10-10, FM only
Saint Barthelémy [NA] – French island near Guadeloupe, FM only
Saint Martin (French, next to Sint Maarten) [NA] – FM only
Saharan Arab Republic (aka Western Sahara) (formerly Spanish Sahara, Rio de Oro) [AF] – all known MW transmitters are located in Algeria
Serbia [EU] – Montenegro declared independence from Serbia/Yugoslavia 6-3-06. Earlier loggings of Serb stations count as Yugoslavia. All MW stations reported silent in early 2016 for financial reasons
Sierra Leone [AF] – FM only
St Helena [AF] – AM was shut down 12/2012, now FM only
St Kitts and Nevis [NA] – FM only
St Lucia [NA] – no more MW stations
Sint Maarten [NA] – after 10-10-10
St Pierre and Miquelon [NA] – now FM only, MW was eliminated several years ago
St Vincent and the Grenadines [NA] – MW station currently inactive but may return some day
Samoa, American [OC] – no more MW Stations
San Marino [EU] – FM only
Senegal [AF] – after 6-20-60, now FM only
Singapore [AS] – eliminated all MW services in mid-1990's
Somalia [AF] – SW/FM only
South Ossetia [AS] – breakaway region of Georgia, has diplomatic relations with several countries. No known MW outlets
Suriname (formerly Dutch Guiana) [SA] – all MW stations believed to be inactive
Swaziland [AF] – Currently FM/SW only
Sweden [EU] – FM only, occasionally has short-term low-power MW operations
Switzerland [EU] – FM only
Timor Leste (aka East Timor) [AS] – Originally called Portuguese Timor, annexed by Indonesia 12-31-61. Became independent 3-1-00. No MW stations since 2014
Togo [AF] – FM only
Tokelau [OC] – FM only
Tristan da Cunha [AF] – FM only
Turks and Caicos Islands [NA] – RVC might return someday
United Nations HQ [NA] – universally recognized as "neutral" territory, but has no MW activity
Uzbekistan (formerly Uzbek SSR) [AS] – no known active MW outlets
Vatican City [EU] – Ceased MW operation Nov 2016
Wake Island [OC] – AFRTS station closed down many years ago
Wallis and Futuna [OC] – FM only, MW operation ended circa 2000
Zambia (formerly Northern Rhodesia) [AF] – FM/SW only
Zimbabwe (formerly Rhodesia) [AF] – FM/SW only

DELETED COUNTRIES

The following countries no longer exist, but had or may have had medium wave stations. Some are places that merged with a neighboring country. Others were split into two or more separate countries. The listed dates are when the country ceased to be a separate DX country. Some countries existed between two dates.

Biafra [AF] – 5-30-67 to 1-15-70, otherwise part of Nigeria
British North Borneo [OC] – 9-15-63 (now part of Malaysia)
Canal Zone [NA] – 9-30-79 (now part of Panama) – had AFRTS stations

Czechoslovakia [EU] – 12-31-92 (now Czech and Slovak Republics)
 Danzig [EU] – 9-1-39
 French Equatorial Africa [AF] – 8-16-60 (now Chad, Central African Republic, Gabon, Congo)
 French Indo-China [AS] – 12-20-50 (now Laos, Vietnam, Cambodia)
 French West Africa [AF] – 8-6-60 (now Niger, Ivory Coast, Burkina Faso, Benin, Mauritania, Mali, Senegal, Guinea)
 German Democratic Republic [EU] – 10-3-90 (now part of Germany)
 Goa (Portuguese India) [AS] – 12-19-61 (now part of India)
 Guangdong Peninsula [AS] – 8-14-45 (now part of China)
 Jammu and Kashmir [AS] – 2-24-75 (Northernmost state of India, subject to a border dispute with Pakistan)
 Karelo-Finnish SSR [EU] – 7-15-56 (now part of Russia)
 Leeward Islands [NA] – 2-27-67 (now various island nations)
 Malaya [AS] – 9-15-63 (now part of Malaysia)
 Manchuria (Manchuguo) [AS] – 9-16-63 (now part of China)
 Newfoundland and Labrador [NA] – 3-31-49 (now part of Canada)
 Netherlands Antilles [SA] – Bonaire and Curacao split into separate "countries" 10-10-10
 Okinawa (Ryukyu Islands) [AS] – 5-14-72 (now part of Japan)
 Peoples Dem Rep of Yemen (Aden) [AS] – 5-21-90 (now part of Yemen)
 Ruanda-Urundi [AF] – 7-60 to 6-30-62
 Saar [EU] – 1-3-48 to 12-31-56 (now part of Germany)
 Sarawak [OC] – 9-15-63 (now part of East Malaysia)
 Sikkim [AS] – became part of India 5-16-75
 South Vietnam (Republic of Vietnam) [AS] – 7-1-76 (now part of Vietnam)
 Swan Island [NA] – 8-31-72 (now part of Honduras, home of Radio Americas in mid-1960s)
 Tangier [AF] – 6-30-60 (now part of Morocco)
 Tibet [AS] – 5-30-74 (now part of China)
 Trieste [EU] – 2-10-47 to 5-19-54 (now part of Slovenia and Italy)
 Walvis Bay [AF] – 9-1-94 (former part of South Africa, now part of Namibia)
 West Berlin [EU] – 10-3-90 (now part of Germany)
 Windward Islands [NA] – 6-1-67 (now various island nations)
 Yemen Arab Republic [AS] – 5-21-90 (now part of Yemen)
 Yugoslavia [EU] – Former Yugoslav republics became independent 1991-2006 (see individual country listings for dates)
 Zanzibar [AF] – 6-30-64 (now part of Tanzania)

2017 IRCA-NRC-DecalcoMania Convention Report

The 2017 IRCA-NRC-DecalcoMania convention was held this year in the gorgeous city of Reno Nevada. Our host hotel was The Airport Plaza, just steps away from the airport terminal.

Activities began on Friday morning with tours of stations located close by on Plumb Lane. First came KKOH 780 and its related FM sister stations.



KKOH sign



Bill Block and Bill Lipis in KKOH studio

After breaking for lunch at Dickies Barbecue Pit just up the street we doubled back to the building housing Lotus Communications KPLY 630, KHIT 1450 and several more FMers.



KPLY, KHIT, various FMs

Friday evening most of us dined in the hotel restaurant which was convenient. Later in the meeting room we engaged in a discussion on various topics including SDR receivers and Solar Eclipse DXing.



Convention Meeting Room

Saturday morning we drove to the other side of the airport for a tour of Kimmie Candy Factory. Free samples were there for the taking and many made purchases from the gift shop.



Group photo at Kimmie Candy Factory Tour



Chocolate slogan

Phil Bytheway conducted business meetings for BOTH IRCA and NRC. Congratulations to **John Johnson** for being awarded the TVA while the RHA went to **Mark Durenberger**.



Phil Bytheway conducting the business meetings



John Johnson receiving his TVA at home

The official banquet was held at Black Bear Diner on Virginia Road, folks ordered whatever they wanted off the restaurant menu.



Black Bear Diner



Two views of the banquet table.

Weather looked like it could turn bad with a couple flashes of lightning noted but it soon cleared up. Our final scheduled event was our traditional auction. This year we had several station t-shirts, station mugs, and station swag. Everything managed to find a new home (at least until the next auction).



Mike Sanburn (auctioneer) showing off T-shirts.



Dave Gordon with his auction winning T-shirt





IRCA 2017 Reno Convention Group Photo. Left to right: Paul Lotsof, Phil Bytheway, Bill Block, Bruce Portzer, Art Peterson, Mike Sanburn. Robert Rodriguez, Frank Merrill, Curtis McMenam, Curtis' dad, Bill Lipis, David Gordon, Walter Fair, Walter's wife. Patrick Martin in front. Not pictured: Stan Weisbeck and wife. All photos courtesy David Gordon (official convention photographer)

I want to thank **EVERYBODY** who attended, participated, donated, etc.... Many thanks to the Airport Plaza Hotel, the radio stations who gave us tours, Kimmie Candies, Black Bear Diner, and the awesome city of Reno Nevada. The new DX season is upon us! Looking forward to more radio conventions in the future.
73 **Mike Sanburn**

IRCA Business Meeting Reports (Phil Bytheway)

Secretary/Treasurer (Lynn Hollerman)

As of 8/12/17, we have 161 members (7 are members due to bulletin exchange). The number of members has stayed fairly constant over the last few years, but we are seeing a slight decrease as several members have said they've gotten out of the radio hobby. It appears to me from the volume of payments that more and more members are using Paypal; it's far more common in recent years that I go to the PO and find no mail in our box (and naturally, now they're all done with the road construction around the PO so I can actually get there!). Paypal has made several alterations to their site, most of which have made it more user-friendly and easier to use.

As far as our treasury goes:

As of 8/12/17, our treasury balance is \$12158.67; all bills are paid for the year. This year, the PO Box was \$76, up from \$70 last year and \$66 the year before and \$62 the year before that. (Our tax dollars at work, I guess!)

Our yearly expenses amount to:

Domain name – \$39.95 (paid to 2018), Webhosting/email/membership software – \$570 (paid to 6/21/2018), PO Box – \$76, TVA expenses – \$40, Misc (checks, checkbooks, bank fees, etc.) – \$30

(Reminder – a large part of our balance is due to money left over from when we were publishing a hardcopy version of the DXM – I was asked at that time to keep in reserve the amount equivalent to all of our members needing to be repaid their dues, should that be requested if we were unable to find a publisher for the hardcopy version (deferred membership – pb). Most of those that were hardcopy-only did not re-subscribe and did not request a refund of any unused dues or did not cash the checks sent to them for this purpose.

Internet/IRCA Website (Lynn Hollerman)

We have a new website thru MyNetWire, LLC (aka membersp.space.com) that allows for both the hosting of the website, use of the domain name, email, and membership management. This will allow for better maintenance of membership records (considering the problems I have had with my PCs over the last few years!) We are paid thru 6/21 of next year for their services.

I was hoping to get the new site running by the convention, but it looks like thanks to some paperwork snafus and our old webhost's slow response, that won't happen. What SHOULD start happening is that as your renewal date gets closer, you get emails from the new site – these should be automatic.

To log in to the new site, you will need to enter the email address you get DXM at and then use the "Forgot Password?" link to get your initial password. If you try this right now, this may or may not work for you – I'd suggest waiting.

You can still pay via Paypal with the \$1 extra fee, though. You will also still be able to read DXM online at the URL sent to you.

Please note – the website address is the same, though the site has changed. A lot of the reason for changing webhosts was the poor response of our current host – we had a problem where parts of our site would not function due to some files our current host had put on it as part of a global upgrade (I assume they figured all their customers used some popular software for managing their websites, but ours doesn't use that), and their response to emails and phone calls was very poor. This has since been resolved by going to a backup of our site I had made the week before our problems started.

Elections Committee Chair Report 2017 (Nick Hall-Patch)

The call for nominations for this year's biennial IRCA general elections was placed in DX Monitor for 17 December 2016, specifying a deadline of 31 January 2017.

Nominations were encouraged by direct e-mail calls and 15 nominations were received for the Board of Directors, and nine members accepted nominations for the seven positions available. Phil Bytheway had decided not to run for President again this time around, and initially we had had no nominees available for the position of President. Bruce Portzer, one of the nominees for the Board, then put his name forward as a presidential candidate, leaving eight candidates for the Board positions.

Four candidates were proposed by the membership for the Ted Vasilopoulos Award, John C Johnson, Kraig Krist, Bruce Portzer and Mike Sanburn, while Eric Bueneman, Jon Pearkins, and Mark Durenberger were candidates for the Ric Heald Award.

In all, 28 votes were cast by the deadline of May 1 2017. This is a slight decline from the 30 votes cast in the last general election of 2015. We should be able to do better, as e-mailed reminders are sent to each member, and voting no longer even involves getting out of one's easy chair. Ideas for improving voter turnout will be gratefully received.

The new Board will be made up of Bill Block, Dennis Gibson, Steve Howe, John Johnson, Patrick Martin, Mike Sanburn and Robert Wien, with Steve being the new member of the Board. The new President will be Bruce Portzer, and Lynn Hollerman will continue as Secretary-Treasurer.

The winner of this year's Ric Heald Award is Mark Durenberger, for organizing talks at the IRCA conventions, as well as sharing his antenna findings in talks and technical writing.

The winner of this year's Ted Vasilopoulos Award is John C Johnson, for being a regular contributor to DXM, CDXR editor for over 30 years, serving on the IRCA BOD numerous times and hosting three club conventions. John is one of the few remaining IRCA charter members, and has been a DXer for over 50 years. He was unable to attend this year's convention, but Nancy plans to present him with the TVA plaque this weekend.

Congratulations to all these winners. If anyone wants to see the exact number of votes for each candidate in the election, please contact me at nhp@ieee.org.

Bookstore (Phil Bytheway)

Cash on hand:

Start (9/1/16): \$4032.57, End (9/1/17): \$2885.32

Sales:

Technical Guides = 0, Mexican Log = 1, TIS/HAR List = 0, Slogans List = 1, DXM DVD = 3, Reprint CD = 1, SR/SS Maps = 0

Misc expenses:

Convention Refunds = 1, Up front costs for convention = \$510.00, WRTH Ad = \$500.00, Inside Radio = \$120.00, Supplies (CD cases) = \$37.90

Countries (Bruce Portzer)

Plan to publish an updated Countries List this fall (in this issue – pb!)

Publicity (Mike Sanburn)

Plan is to put an ad in the upcoming WRTH. Always looking for other ideas to promote IRCA, other magazines and venues, mikesanburn@hotmail.com.

2017 Madison WI GTG

Last issue's **DX Forum** included Tim Noonan's summary of the Madison GTG. Here's the group photo.



This is the group photo taken at the Madison WI GTG on August 19. Rear, left to right: Jim Albrecht, Marv Shults, Rick Dau, Joe Olig, John Lentz, Gary Siegel, George Greene, Ernie Wesolowski, Mike Lantz, Al Hajny, Kevin McGill, Mark Taylor, Joel Thorn, Tim Noonan, Dave DeRosier, Paul Noonan, Mike Piering, Monica, Ernie Mahler, Beth Brossell, Pete Ferrand, Neil Bartlett, Bob Brossell, Bill Dvorak, Dave Zantow. Seated in front: Don Moore, Craig Menning, Ken Hawkins, Chris Kadlec, Neil Kazaross. Not pictured: Steve Gastreich, Mike Henke, Randy Schrieder, Bill Tilford.



VERIFICATION SIGNERS – Stephen S Howe – 9 Warner Dr – St Albans VT 05478-1575
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My deadline is the last Monday of the month at 1500 ELT.

CONTRIBUTORS

EB **Eric Bueneman**, Hazelwood MO; n0uiheric@gmail.com
MF **Martin Foltz**, Mission Viejo CA; martinfoltz@cox.net
IRCA **IRCA ListServ**

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

1150 KAGO Rob Siems, GM; 404 Main St, Suite 4, Klamath Falls OR 97601; P; 10; MF
1360 WNAH* Hoyt M Carter, Jr; 44 Music Square East, Nashville TN 37203; LQ; 10; EB
1400 WRAK** *Unknown*; 1559 W 4th St, Williamsport PA 17701; *unknown verie type*; 22; IRCA
1450 KZNU Carl Lamar, PD; 619 S Bluff St, Tower 1, Suite 300, St George UT 84770; P; 12; MF

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

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

NOTES: * [For this column] = Reception for special August 21 2017 solar eclipse broadcast; ** = Reception during solar eclipse; see comment concerning address below

Nice to have a tip from Eric this month, and, of course, from Martin as well. I dug out the address for WRAK-1400 from their Facebook page. This column was prepared on 9/25/17. 73, SSH.

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 (January 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/slogans.htm>

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/TIS_2016.pdf.

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

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IRCA Mexican Log, 20th Edition (Winter 2015)

The **IRCA MEXICAN LOG** lists all AM stations in México 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. This is an indispensable reference for anyone who hears Mexican radio stations. Size is 8 1/2" x 11".

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

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

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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.

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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 volumes 3, 4, 6, 7 and 8 of the **IRCA Foreign Log** available for \$2.50 each (overseas add \$3.00/book).

An Introduction to Broadcast Band DXing

This tri-folded brochure is ideal for explaining the Broadcast Band DXing hobby and the IRCA. It can be included with reception reports and given to other interested folks. Sub topics include: What is DXing?, Broadcasting's early years, The first DXers, Clubs helped listeners share, Our hobby today and DX clubs still unite listeners. It is two color printed on heavy stock. Price is \$0.35/brochure (US and Canada), \$1.00 (rest of the world). Minimum order is 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>.

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"DX Monitor" on DVD

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The **IRCA** is a non-profit organization devoted to the hobby of hearing distant stations on the Broadcast Band (510-1720 kHz). **DX Monitor**, the official publication of the IRCA, is published in "soft" form 35 times a year (weekly from 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.



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Sample copies of **DX Monitor** are available at phil_tekno@yahoo.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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