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IRCA Slogan's and IRCA TIS/HAR List Editors Needed

Anyone interested in taking over either of these positions and preparing a new edition for this fall's DX season, please contact Phil Bythway at the IRCA Bookstore ([phil\\_tekno@yahoo.com](mailto:phil_tekno@yahoo.com)).

**FALL MIDWEST GTG**

The annual Midwest DXers for GTG will be held at Springfield MO. DATES: October 30-31 and November 1 Friday-Sunday. LOCATION: Budget Inn 2455 N Glenstone. Phone 417 866 7460. This is same motel we had a GTG in the past, on business route 65 about 1/2 mile south of I 44 Exit 80 on west side of the street. Since this is an informal event we will meet in motel rooms. A tour of Meyer communications a local owner of several Springfield stations is planned for Saturday. Meyer owns KTXR FM, KWTO AM/FM and KBFL AM/FM. KTXR morning DJ Jamie Turner will show us around. Also will try to see if DXer Randy Stewart can give us a tour of the PBS station where he works. As Branson MO is only 35 miles south some of you may want to take in a few shows while there.

For more information contact: **John Tudenham**, 417 624 8058. Cell phone: 417 438 4749. E-mail: [jotud@yahoo.com](mailto:jotud@yahoo.com).

**Australian AM Radio 1611-1701 Italian, Country, Arabic, Greek and Gold**

Almost 70 low power stations are now broadcasting in Australia's expanded AM radio dial almost two decades after the new channels became available says the Radio Heritage Foundation which has released a contemporary guide to them at [www.radioheritage.net](http://www.radioheritage.net).

Originally populated by ethnic broadcasters and niche formats, the situation remains little unchanged in 2009 as attempts to bring the low cost extra frequencies into mainstream media have largely failed to materialize.

Existing commercial broadcasters saw these licences as a dangerously cheap back door into digital broadcasting and lobbied strongly to exclude 1611-1701 AM stations from digital entitlements. Coupled with poor availability of AM radios able to tune to the new frequencies, attempts by commercial aspirants like Radio 2 to establish economics of scale and a nationwide network collapsed.

In 2009, the major players on air are Rete Italia [part of the Italian Media publishing and media group], Radio 16 The Goanna [a fledgling country music network co-owned with 2ME an Arabic language station], Smart Group's Hot Country from Queensland, whilst a small foothold in the band has been claimed by Queensland based Christian network Vision FM.

A small cluster of independent stations air a variation on the 'Gold' music format of 1960's hits popular with babyboomers, two Greek language stations compete for listeners in Sydney, and a handful of other stations serve ethnic markets for Chinese, Hindi, Arabic, Islamic and Lebanese Christian audiences.

A large number of licences held in the 1611-1701 AM band have remained silent for many years and are unlikely to ever come on air.

The Radio Heritage Foundation has released a detailed list of Australian stations currently operating in the 1611-1701 AM band together with analysis of this fascinating and little known broadcasting landscape.

It's currently available as a downloadable Word document at [www.radioheritage.net](http://www.radioheritage.net) and will be updated regularly.

**DX TEST**

Sun 10/29/09 0001-0100 1550 WSRV Elkton MD (Oetting)  
**WSRV 1550 MD ELKTON.** Date: Sunday morning (late Saturday night) November 29 2009. Time: 0001-0100 ELT (0501-0600 UTC). **Mode of Operation:** 1000 watts directional to north-northwest (daytime pattern). **Programming:** Tune in and find out! QSL and other information to follow shortly. Many thanks to **Dan Oetting** for organizing this test!

**WESTERN DX ROUNDUP**

**Nancy Johnson - 265 Waterton Wy - Billings MT 59102-7755**

E-mail: [NancyJohnson@prodigy.net](mailto:NancyJohnson@prodigy.net)

**WDXR DEADLINES:** Each Friday. Please use Eastern Time.

- (AB) **Art Blair:** 730 SW 3<sup>rd</sup> St-Fruitland ID 83619 [artblair1937@gmail.com](mailto:artblair1937@gmail.com)  
NRD-515, Kiwa loop
- (BB) **Bill Block:** 7716 E Thelma Drive-Prescott Valley AZ 86314 [billwblock@msn.com](mailto:billwblock@msn.com)
- 610 KAVL CA Lancaster 10/13 2349 with "Fox Sports 610." (BB-AZ)
- 820 KGNW WA Buriens-Seattle 10/12 2004 all alone on the frequency with SRN news and ID. (AB-ID)
- 970 KBUL MI Billings 10/13 2301 Fox News, no c/s but "Billings" mentioned at 2305. Fair with others. (AB-ID)
- 1100 KWWN NV Las Vegas 10/13 2054 with ads for Las Vegas and Henderson, and "ESPN Radio 1100" way on top of KFAX. (BB-AZ)
- 1190 KXMX CA Anaheim 10/10 2003 with "KXMX." (BB-AZ)
- 1200 CJRJ BC Vancouver 10/14 2245 CJRJ ID, into local entertainment news. Good, well over WOAI. (AB-ID)
- 1250 KNEU UT Roosevelt 10/14 song "Auctioneer" sung by LeRoy VanDyke, "KNEU 12-50" ID. (AB-ID)
- 1330 KGAK NM Gallup 10/11 1808 with "KGAK" and then singing "KGAK" into C&W. (BB-AZ)
- 1340 KTPI CA Mojave 10/11 1813 with "KTPI," then lost. (BB-AZ)
- 1350 KABQ NM Albuquerque 10/11 1818 with "Albuquerque's Progressive Talk 1350." (BB-AZ)
- 1430 KCLK WA Asotin 10/12 1948 ads, ESPN spot, KCLK ID at 1959. (AB-ID)
- KBRC WA Mount Vernon 10/12 1955 song "California Dreamin'" by The Mamas & Papas, KBRC ID, poor under KCLK and KLO. (AB-ID)
- 1450 KZNU UT St. George 10/11 1800 with "KZNU St. George" way under KNOT. (BB-AZ)

It was beginning to look like there would be no WDXR this week, but Art and Bill came through with their reports. Nancy 10/16 2100

**CENTRAL DX ROUNDUP**

**John C Johnson - 265 Waterton Wy - Billings MT 59102-7755**

E-mail: [John\\_Johnson@prodigy.net](mailto:John_Johnson@prodigy.net) CDXR reports ONLY: [cdxr@ircaonline.org](mailto:cdxr@ircaonline.org)

**RIDING GAIN**

- [NJ-MT] Nancy Johnson, Billings MT [NancyJohnson@Prodigy.net](mailto:NancyJohnson@Prodigy.net)  
Drake R8B and Kiwa Loop
- [GK-CO] Chris Knight, Fort Lupton CO [chris@dxclipoint.com](mailto:chris@dxclipoint.com)  
Drake R8, Sony ICF-SW7600GR, various antennas, Quantum Phaser

**DOWN THE DIAL**

- 560 WEBC MN Duluth. 10-13 good with local KLZ phase-nulled. 00:20-00:27 with ESPN Sports, weather, ID "ESPN Radio 5-60 WEBC" back into ESPN. [GK-CO]
- 570 KVI WA Seattle. 10-13 fair peak, lost under WNAX. Local KLZ 560 IBOC phase-nulled. 00:30 to 00:33 with promo for an event "...right here on AM 5-70 KVI" with mention of Seattle area. [GK-CO]
- 950 KMTX MT Helena. 10-15 poor to good in local KRWZ phase-null. 00:00 with legal ID into ABC News, "Max AM and FM" and "9-50 The Max" slogans. Recent oldies music format. [GK-CO]
- 1040 CKST BC Vancouver. 10-11 very good. 01:39 with sports talk, local spot for a car dealer in Burnaby. "The Team 10-40" slogan into hockey. [GK-CO]
- 1260 WPKK262 CO Denver. 10-11 fair signal. 11:15 with male voice repeating message "This is highway advisory radio AM 12-60 licensed to the city and country of Denver. WPKK262." KIMB used to be here during the day. New catch. [GK-CO]
- 1280 WBIG IL Aurora. 10-10 good solid signal. Local KBNO phase-nulled. 22:50-22:54 with local spots, "...here on AM 12-80 WBIG" ID. [GK-CO]
- 1300 KCMY NV Carson City. 10-11 fair. 00:17-00:19 with local spot for a tire store, promo "My Country Cares" and weather for Carson City. [GK-CO]
- KYNO CA Fresno. 10-11 good peak over all. 00:13-00:15 with local spot, ID "This is live talk radio 13 hundred KYNO" into "Twilight Zone" radio play. New catch! [GK-CO]
- 1400 KKTL WY Casper. 10-16 fair. 20:00 with "AM 14 hundred KKTL Casper. Real Talk." into network news. [NJ-MT]
- 1450 KQDI MT Great Falls. 10-15 poor through others. 22:00 with ID "14-50 KQDI." [NJ-MT]

**25 YEARS AGO**

October 20 1984 issue of IRCA's "DX Monitor" ... **Neil Kazaross** of Ogunquit, ME was pleased with DX having about 50 TA's audible on most nights ... **Karl J Zuk** of Croton-on-Hudson, NY mentioned all of his travels working for ABC Sports ... **Frank Aden Jr** of Boise, ID hears Japan on 828 like a local almost every morning ... **Richard E Wood** of Hilo, HI told about his move from Saudi Arabia.

**OPEN MIKE**

There is still time to get in on all the fun of this year's DX Contest. This column was typed 10-17-09. 73, John

**EASTERN DX ROUNDUP**

**Lee J Freshwater – 414 SE 3rd St – Ocala FL 34471**

**E-mail: EDXR at AMLOGBOOK dot COM**

Deadlines: Saturdays 8 AM!

(LF-FL) **your editor**

(KK-VA) **Kraig Krist**

(JC-DE) **John Cereghin**

(WM-TN) **Willis Monk**

(WM-MD) **William McGuire**

**STARS OF THE WEEK**

Ocala FL  
Drake R-8B, KIWA Loop, Grundig Sat-800, MFJ Phasor, MFJ 616 audio enhancer, BSI Auto Logging Software, Vox Pro E-2 editing software, 100' LW NW-SE  
Manassas VA

NRD-545 rx w/134' multiband antenna NW to SE

KB3LYP 38 S Carter Road Smyrna DE

FRG-7 DX-150B and various UltraLights

K4APE Old Fort TN

Drake R-4C, 149' LW

2412 59th Place, Cheverly MD

DX-388

**LOGGINGS**

600 CT WICC Bridgeport, 10/5 1900, weak, "WICC Newsradio" and "Connecticut's News and Information Station" liner. (JC-DE)

670 VA WPMH Claremont, 10/14 1730, very weak but did catch "talk radio for Hampton Roads" liner. (JC-DE)

690 WV WELD Fisher, 10/03 1850, Oldies mx: ID (WM-MD)

710 NC WEGG Rose Hill, 10/7 1815, gospel, mixing with WOR, "Gospel 710" and "Gospel 710 and 95.5" liners. (JC-DE)

790 NY WLSV Wellsville, 10/3 0705, "790 WSLV" ID with classic country, poor against IBOC hash. (JC-DE)

830 NC WTRU Kernersville, 10/07 1840, Religion program, local mentions. (WM-MD)

850 PA WCRN Worcester, 10/10 1940, ID, New England college football scores. (JC-DE)

850 PA WWGE Loreto, 10/01 2100, AD, ID: "The Edge." (WM-MD)

870 NY WHCU Ithaca, 10/03 1835, Station promo: ID. (WM-MD)

910 OH WLTP Marietta, 10/1 2235, Local ad; ID; WX. (WM-MD)

970 MD WAMD Aberdeen, 10/16 1940, "Put on your dancing shoes, listen all day long, Goodtime oldies. Oldies 97, WAMD" Playing the stuff from the early 70's. Very weak, with a lot QSB. NEW. (WM-TN)

980 NC WAAV Leeland, 10/10 2110, Local station promo. (LF-FL)

1050 NY WEPN New York City, 10/13 2025-2105, mixing w/station playing oldies from the 1970's. Typical ESPN programming. 2029 "...back to the phones. Gary in New Jersey. Gary you're on ten fifty WEPN New York". 2102 "This is New York's sports leader ten fifty ESPN and ten fifty ESPN dot com. WEPN New York, WLIR FM Maine WYJB Brunswick (sounded like). You know us". (KK-VA)

1070 IN WFNI Indianapolis, 10/11 2025-2105, mixing w/ESPN radio carrying Yankees/Twins baseball game. WFNI with Colts vs Titans football game. 2038 "Your home for Colts football all season long ten seventy 'The Fan' WFNI Indianapolis.". (KK-VA)

Hartford, 10/10 2025-2045, 2031 "WTIC news time is now eight thirty one", 2035 "News, weather, traffic, sports on WTIC news talk ten eighty" into Clark Howard call-in show. (KK-VA)

1090 MD WBAL Baltimore, 10/9 2025-2105, mixing w/talk. 2105 "...WBAL news room". (KK-VA)

1170 NC WCLN Clinton, 10/12 0815, local news, many mentions and ads mentioning Samson County and Clinton, announcer with strong southern accent, under WWVA. (JC-DE)

1290 NC WHKY Hickory, 10/03 2000, ID heard in mess. (WM-MD)

1310 NC WISE Asheville, 10/15 1900, ESPN. IDed as both 1310 and 970. (JC-DE)

1320 MS WRSW Playney, 10/12 2200, poor with sign off. (LF-FL)

NC WAGY Forest City, 10/12 0300, TOH ID. Poor in the mix. (CAT-NC)

1340 GA WOKS Columbus, 10/13 0200, Out of the mess with TOH ID NEW. (LF-FL)

1360 CT WDRC Hartford, 10/05 2106, Station promo "The Talk Of Connecticut"; ID. (WM-MD)

1400 VA WPCE Portsmouth, 10/8 1725, gospel, "WPCE; Your Inspiration Leader." (JC-DE)

1440 WV WAJR Morgantown, 10/05 1910, Oldies mx heard; ID. (WM-MD)

1460 MA WXHR Brockton, 10/2 2120, Lou Dobbs Show, "WXHR Brockton" ID at 2205. (JC-DE)

1490 VA WCVA Culpeper, 10/16 1640, mixing w/talk. PSA for college loans. "America's best music WCVA" into Johnny Mathis song. (KK-CA)

1580 TN WLIJ Shelbyville, 10/9 2235, classic country, ID "here on WLIJ". Must have been running day pwr as I tracked this for about 4 days before getting the ID. (KK-VA)

1670 MD WD2XXM Frederick, 10/9 1300-1311, mixing w/Fairfax County VA TIS. Various types of music (rock, polka, etc). Long speech on benefits of IBOC HD radio. Gone by 1311. (KK-VA)

1080 ?? ????

9/29 2000, C&W mx mixing with baseball. (WM-MD)

\*\*\*\*\* UN-IDEN \*\*\*\*\*

That's a wrap for this week. Thanks to all... I'm a day late as I got back at 0130 this morning from the Catholic Radio Show in Birmingham AL, where I did a presentation on Radio Station Automation....

That meant I had to watch the Gator game between planes. Luckily I did catch the 4<sup>th</sup> quarter while sitting in Atlanta ...and I won't mention Ball State... hi... all the best.... fresh 10-18 1230

**DX WORLDWIDE – WEST / TROPICAL BAND DX**

**Patrick Martin – PO Box 843 – Seaside OR 97138**

**E-mail: mwdxer@webtv.net all times UTC**

Greetings everyone,

Another great week of TA & TP DX. This Fall has sure shaped up to be a good one. I even logged BBC Scotland on 810. Amazing week to say the least. So on with the reports.

**TRANS ATLANTIC DX ROUNDUP**

531 UNID, Station hear with talking that sounded SS or FF at 0345 10/14. (PM-OR)

549 UNID, het on 550 at 0332 10/14. (PM-OR)

675 HOLLAND? Jazzy music here at 0338 10/16 in 670-680 splatter. (PM-OR)

684 UNID, music here at 0347 10/16. Too much splatter to hear much. (PM-OR)

693 UNITED KINGDOM, Britian, BBC5 weak-fair with British EE 0426 /web feed on the BBC website. This was the second strongest TA that night after Croatia-1134. Weak QRM from unit station with female talk. (BP-WA)

747 HOLLAND, Radio 5 fair with Fats Domino song 0418 10/17 0447 weak w/music // streaming audio. Also noted //streaming audio weekly 0353 10/8. (BP-WA)

756 GERMANY, woman in GG at 0348 10/15. Quite good at times. (PM-OR)

765 UNID, station with light music and man in FF in splatter weakly at 0349 10/16. Presume Switzerland. (PM-OR)

783 UNID, Persistent carrier, but never produced audio 10/8 0258 and 0318 etc. (BP-WA)

810 SCOTLAND, BBC Radio 1, heard with loud rock music with male ancr with a British accent at 0435 10/15 IDed as BBC Radio One with KGO mostly phased. Report sent and I am keeping my fingers crossed. (PM-OR)

819 UNID, 0322 10/8 carrier visible on SDR display and het audible in AM mode, despite having a local on 820. Audio lost in KGNW-820 splatter. (BP-WA)

828 UNID, weak station here in splatter at 0404 10/15. (PM-OR)

855 UNID, bits of male talk 0436 10/7 wasn't //Spain's web feed. (BP-WA)

855 SPAIN, Radio Nacional quite good with man and woman in SS, sounded like newscast 0412 10/8. (BP-WA)

864 FRANCE, fair with male in FF at 0345 10/15. (PM-OR)

873 UNID, male talk in splatter at 0355 10/15. (PM-OR)

909 UNITED KINGDOM, Britian, BBC5 presumed with man and woman weak in 910 splatter 10/7. News by man and promo by woman in British EE; weak but recognizable in 910 splatter //streaming audio. (BP-WA)

945 UNID, woman in FF? at 0340 10/16. (PM-OR)

963 FINLAND, 5-6 time pips 0400 10/7 woman in unid language 0402 weak. Briefly good with woman in presumed Russian 0230 10/8. 0300 10/9 pips man w/ID in CC. Woman with ID in RR fair. (BP-WA)

972 UNID, 0301 10/9 woman with news in what sounded GG but didn't sound //NDRs web feed, possible QRM from another station. (BP-WA)

981 UNID, weak music here in splatter at 0332 10/15. (PM-OR)

1008 UNID, strong het on KOMO 1000 at 0312 10/15. (PM-OR)

999 UNID, woman speaking in unknown language very weakly at 0323 10/16. (PM-OR)

1017 UNID, talk in what might have been German 0425 10/8 faded before I could find the // on the web. (BP-WA)

1062 **DENMARK**, 0349 10/9 man in presumed Danish weak-fair, possibly listed weather report, 0401 news, talk at 0404 rising to fair level at times, again in presumed Danish didn't seem // to any Denmark's radio web feeds. (BP-WA)

1089 **UNID**, het on 50 KW local KPTK 1090, probably Talksport. (BP-WA)

1107 **UNID**, here with weak music at 0350 10/16. (PM-OR)

1134 **CROATIA**, good with pop music 0350 10/17. (BP-WA)

1161 **UNID**, het on KSL at 0326 10/15. (PM-OR)

1179 **UNID**, bits of audio from presumed Sweden 0430 10/7. (BP-WA)

1215 **UNITED KINGDOM**, Britian Absolute Radio fair carrier but bad domestic splatter some audio (rock music) 0407 and 0427 10/8 //streaming audio from website. Same thing 0225 10/9. (BP-WA)

1269 **GERMANY**, DLF 0219 10/8 briefly good w/classical music //streaming audio from website. (BP-WA)

1278 **UNID**, weak talk 0221 possibly France. (BP-WA)

1341 **UNID**, het and carrier possibly BBC User 0223 10/8. (BP-WA)

1431 **UNID**, het and carrier 0225 bits of pop music surfaced briefly 0226 10/8. Pop music 0232 10/9 man and woman in Germanic or Slavic sounding language briefly surfaced 0238. (BP-WA)

**TRANS PACIFIC DX ROUNDUP**

153 **RUSSIA**, Radio Rossii ID at 1207 with more RR talk S-2 signal, but 100% readable with some lightning noise 10/18. (DV-WA)

171 **RUSSIA**, Radio Rossii at 0907 10/18 with woman in RR weakly. (PM-OR)

180 **RUSSIA**, 1210 10/18 weak with man in Russian S-1. (DV-WA)

189 **RUSSIA**, 1210 10/18 good with music S4-5 signal. (DV-WA)

234 **RUSSIA**, 1212 10/18 good with music S-6. (DV-WA)

279 **RUSSIA**, 1213 good with music S-7 to S-8 10/18. (DV-WA)

+ Also noted very strong at 0920 10/18 with woman in RR at S9+10. Amazing signal. (PM-OR)

531 **AUSTRALIA**, Port Manuarrie, 2PM presumed the pop music at 0830 10/18 o/u JOQG. (PM-OR)

558 **JAPAN**, Kobe JOCR 1418 10/18 fair o/other Asian talking station. (DV-WA)

567 **JAPAN**, Sapporo JOIK NHK1 1215 fair with man/woman in JJ //594 10/18. (DV-WA)

603 **REP KOREA**, HLSA 1421 10/18 weak with woman talking and music 10/18. (DV-WA)

670 **ALASKA**, Dillingham KDLG good and dominant with oldies "One Toke Over The Line" and others. At 0801 10/17 "You are tuned to KDLG in Dillingham Alaska" Also mentioned the program being heard on KNSA Unalakleet. (PM-OR)

720 **ALASKA**, Kotzebue KOTZ mixing with KUAL with ID at TOH "You are listening to KOTZ in Kotzebue Alaska, also heard on 89.9 FM" at 0800 10/17. Unneeded, but nice to hear this rare one. (PM-OR)

770 **ALASKA**, Valdez KCHU good on top of Seattle 03804 10/17, with weather for Valdez, highs in the 40s and lows in the 30s. Also gave the weather for those travelling to Anchorage with near the same temps but with possible snow showers. (PM-OR)

1330 **ALASKA**, Juneau KXLJ heard at 0959. 50 10/8 "The new AM 1330 KXLJ Juneau" into ESPN Sports. New. (PM-OR)

1503 **KOSRAE**, fair with man in local language and nice island music from 0715 to 1020 10/18, mixing with the occasional 2BS. Later into US based rel programming for Sunday. Good to weak. (PM-OR)

**THANKS TO THESE REPORTERS**

BP-WA **BRUCE PORTZER**, Seattle WA [bportzer@comcast.net](mailto:bportzer@comcast.net)  
DXing with RFSPACE SDR-IQ, K9AY antenna

DV-WA **DENNIS VROOMI**, Salimon Creek WA [vroomski@comcast.net](mailto:vroomski@comcast.net)  
DXing with NRD-545 and Drake R88, NW EWE

PM-OR **PATRICK MARTIN**, PO Box 843, Seaside OR 97138-0843 [mwdxer@webtv.net](mailto:mwdxer@webtv.net)  
DXing with Drake R8, Drake SPR4, NE EWE, NW EWE, SW EWE, Eastern Beverage antenna

**TRANS PACIFIC**

164t **MONGOLIA**, Khonkhor, Mongolyn Radio. 13 Sept 1441. Fair to mostly poor w/mumbly talk; something on 227 also but not really readable. Lots of static noise. (NHP-HI)

171 **RUSSIA**, Olyast/Yakutsk, R Rossii. 13 Sept 1439. Fair w/echoey signal, woman in RR //189 which was ahead of 153, all fair strength in GRN; 270 kHz had huge RR talk by man shortly afterwards. 261 had man then woman in RR//153, at poor strength, 234 fair strength, man in RR//153; 180 seemed dead though. LW scan ended at 1448 UT. (NHP-HI)

549 **CHINA**, Putian, CNR Zhonghua zhi Sheng. 12 Sept 1525. Woman then man in CC, poor strength, but //765. (NHP-HI)

530 **ALASKA**, Adak, "ADK": Noted w/fair signal, usual code at 1507, 13 Sept. This one gets out. (NHP-HI)

612 **NEW ZEALAND**, Christchurch, NZ's Rhema. 10 Sept 1609. Slow voiced DU man talking, likely R Rhema as //1251. Within a minute faint rock n roll mx faded up //1548, the more commonplace 4QR. (NHP-HI)

621 **NORTH KOREA**, Chongjin, Pyongyang Bangsong. 13 Sept 1538: Powerful w/opera //657. 702, 801 and 873 also noted w/same program at this time. (NHP-HI)

702 **NORTH KOREA**, Chongjin, Pyongyang Bangsong. 10 Sept 1511. Fair w/operatic vocals //3320. o/2BL. (NHP-HI)

711 **SOUTH KOREA**, Sorae, HLKA. 9 Sept 1528: // w/much stronger 1305, but still a big signal, woman and man in KK, but soon faded down again. (NHP-HI)

738 **FRENCH POLYNESIA**, Papeete, Radio Polynesie. 12 Sept 1530. Huge signal w/island vocals by woman, then man in FF, "R Polynesie" ID. (NHP-HI)

783 **CHINA**, unID. 8 Sept 1543; Sounded like CC talk by woman after man and woman w/oriental singing; good signal, but no // or ID. (NHP-HI)

801 **NORTH KOREA**, Hwadae: Pyongyang Bangsong. 8 Sept. 1539. Operatic singing//657, poor to fair; didn't seem particularly off channel? (NHP-HI)

828 **AUSTRALIA**, Sale, 3GI. 7 Sept 1622. Man and woman talking //702, seemed Aussie, poor strength, not bad considering 830 was a semi-local there. (NHP-HI)

873 **NORTH KOREA**, Sinuiju, KCBS? 10 Sept 1622. Man talking //3320, which was not the // expected. In the next few minutes, 657, 819 and 855 all noted //3320, though 657 was trading places w/a CC speaker. (NHP-HI)

927 **CHINA**, Xiamen, CNR Zhonghua zhi Sheng. 9 Sept 1551. Fair signal //765 (which had excellent strength) w/woman talking. (NHP-HI)

963 **CHINA**, Dalian, Liaoning RGD. 14 Sept 1547. CC talk by woman dominant on channel. //the weaker of two CC signals on 1089. (NHP-HI)

999 **NORTH KOREA**, Hamhung, KCBS. 14 Sept 1551. This was u/dominant CC talk by woman (not //5030, so ?) w/operatic singing //819. (NHP-HI)

1008 **CHINA**, Kunming, CNR1. 9 Sept 1543. Man in CC, //5030 but slightly delayed, then fading down under JJ talk. (NHP-HI)

1044 **CHINA**, Changzhou, CRI. 8 Sept 1548. Huge signal (in spite of semi-local on 1040). JJ woman talking, followed by man and woman in CC, thought it might be a language lesson, but followed exclusively by woman talking more JJ. (NHP-HI)

1080 **NORTH KOREA**, Haeju, KCBS. 14 Sept 1636. Operatic singing u/the Hawaiian on this channel; briefly there, but //2850. (NHP-HI)

1089 **JAPAN**, Sendai, JOHB. 13 Sept 1500. NHK2 s/off chimes battling w/CC stations on channel. All listed NHK2 channels were noted at this time w/the chimes except for 1035, 1017, 909 and 639. (NHP-HI)

1170 **SOUTH KOREA**, Gimje, HLSR/PHILIPPINES, Poro Point, DWVA. 10 Sept 1300. "KBS World Radio" by woman in accented English, after instrumental mx, followed by CC ID. Good strength. VOA had dominated at 1259 w/man giving SW frequency info in EE (7.575; 9.51 and 9.76 MHz), and on the internet at [Voanews.com](http://Voanews.com), for upcoming program "World News Now" (NHP-HI)

1179 **UNID**. 7 Sept 1528: CC talk by woman, fair strength, but no idea which one? Wuhan is listed as most powerful (Chutian Satellite BS), but it's somewhat inland also. (NHP-HI)

1215 **NEW ZEALAND**, Kaikohu, Newstalk ZB. 10 Sept 1548. DU talk by man and woman, fair //1008?; then mx //1098. Faded shortly u/oriental talk. (NHP-HI)

1224 **CHINA**, unknown, CNR Zhonghua zhi Sheng. 9 Sept 1552. Poor to fair, woman talking CC //765 and 927. (NHP-HI)

1233 **AUSTRALIA**, Newcastle, 2NC. 7 Sept 1530. DU talk by man fair //702. (NHP-HI)

1260 **JAPAN**, Sendai, JOIR. 8 Sept 1624. Presumably All Night Nippon program, two men rapidly talking in JJ //1242, poor to fair strength. (NHP-HI)

1296 **UNID**. 9 Sept 1600. JJ national anthem mixing w/DU EE and others., followed by tone, then off at 1602. Only NHK1 (JOTK) listed however. So, either a local s/off, or NHK1 is cutting back on hours also? This was from a recording, so didn't think to check more dominant NHK1 stations. (NHP-HI)

1323t **CHINA**, Lhasa, CRI. 7 Sept 1602. EE nx w/somewhat DU accent by man, "in Beijing on Monday", "in central China's Human province" fair to poor, "you're listening to CRI" at 1604. Only found this later on recordings; there are SW //s I could have used. Also noted 1600 9 Sept. "from Beijing, this is CRI, China Radio International". This is the CRI station listed w/EE at this time in PAL, though Huadian seems much more likely. (NHP-HI)

1386 **NEW ZEALAND**, Auckland, R Tarana. 14 Sept 1603. Woman speaking in Hindi, good signal. This one gets out pretty widely and regularly. (NHP-HI)

1404t **JAPAN**, Shizuoka, JOVR. 8 Sept 1609. JJ talk by man, then mx interlude not //1287; fair to poor, could be this one. (NHP-HI)

1404 **JAPAN**, Kushiro, JOQL. 7 Sept 1544. Briefly weak w/JJ talk by man //1287. (NHP-HI)

1431 **AUSTRALIA**, Wollongong, 2RN. 7 Sept 1546. DU EE, interview of man by woman, faded down quickly, w//1512 which wasn't too strong either. (NHP-HI)

1440 **PHILIPPINES**, Dagupan City, DWDH. 6 Sept 1546. Slow vocal mx fair u/JOWF and //1260 (u/JOIR) most likely this one. (NHP-HI)

1449 **JAPAN**, Abashiri, JOQM. 7 Sept 1557. JJ talk poor, m/f //1287. (NHP-HI)

1485 **NEW ZEALAND**, Gisborne, R Trackside. 14 Sept 1614. Horse racing announcer //1476, poor strength, but points to this one. (NHP-HI)

1494 **AUSTRALIA**, Albury, 2AY. 1 Sept 1553. Pop vocal on 1494 //1143, presumably this SC net station; fair/good. Another DU accented man, w/NZ mention faded up and down remained UNID. (NHP-HI)

1539 **UNID**, 7 Sept 1614. Sounded like man talking in a subcontinental language, but hard to tell w/big splatter from KREA-1540. (NHP-HI)

1548 **UNID**, 13 Sept 1554. Subcontinental sounding talk by man, but no // found on 7225. Sri Lanka? 4QD usually the dominant here. (NHP-HI)

1566 **INDIA**, Nagpur, AIR. 13 Sept 1554. Good sized signal, sounding Indian rather than CC. Then, a few words of Indian accented EE fading down w/CC talk, then pop mx and Aussie EE just before hour, quite a mess. Two short and one long pip on hour, then obvious CC, so likely HLAZ, then back to Indian sounding talk by woman after hour of course. At 1618 lazy stringed SOUTH KOREA, Cheju, HLAZ. //9425 by 1620 for positive ID. Quite good signal by this time. (NHP-HI)

1620 **SOUTH KOREA**, Cheju, HLAZ. 11 Sept 1230. Excellent strength with FEBC and call letter ID, "h eh zeh" followed by usual choral mx after big carrier boost, went from -70 to -50 dB on SDR-14 display. (NHP-HI)

1593 **CHINA**, Changzhou, CNR1. 9 Sept 1636. Man in CC, briefly nearly as strong as 5030 (ie very strong), and lagging somewhat; someone under at 1637UT, also CC, woman talking, not //4840, not //1143, but then not sure if 1143 was Taiwan Fisheries at this point. (NHP-HI)

1620 **AUSTRALIA**, unid. 8 Sept 1601. Weak DU talk, likely 4KZ? Also noted weak audio at this time on 1629 (mx), 1638 (talk). (NHP-HI)

NHP-HI **NICK HALL-PATCH**, 1538 Amphion St, Victoria BC V8R 4Z6 [nhp@ieee.org](mailto:nhp@ieee.org)  
DXing offshore from Hawaii on R/P FLIP ~17 30 N, 157 15W, using 16 foot on a side triangular ALA 100 driving Dymek DR333 and RF Space SDR14 receivers

1711 **MOROCCO**, 0456 10/3 mostly threshold level audio, 0459 possible N African mx, 0500 female talk weak. (bp WA)

189 **RUSSIA**, 1139 10/4 fair w/music //234/279. (bp WA)

518 **CHINA**, Dalian, 1050 10/3 Navtex message with mention of XSZ and Dalian, marine wx report. (bp WA)

**JAPAN**, Yokohama, 1324 10/3 several Navtex messages about weather, objects in water, etc. (bp WA)

**SOUTH KOREA**, 1130 10/4 decoded several "Korea Navtex" messages. (bp WA)

**RUSSIA**, Petropavlovsk, 1222 10/3 series of Navtex messages mentioning "COASTAL WARNING PETROPAVLOVSK." (bp WA)

567 **JAPAN**, Sapporo, JOIK, 1000 10/3 call ID by woman then NHK mx. (bp WA)

570 **CANADA**, Whitehorse, CFWH, 0659 10/3 "CBC Radio One, 570 AM in Whitehorse" ID loud o/KVI, then promo & CBC nx, 0704 had "CBC Yukon ID" & wx for various towns in the Yukon. (bp WA)

603 **UNID**, 1100 10/3 3 sets of Chinese pips hrd, dominant stn then had YL talk, 1215 10/3 woman yakking in CC quite strong (10db over S9), unid mx stn in background. (bp WA)

620 **ALASKA**, Homer, KGTL, 0424 10/3 good w/call ID & Tom Jones song o/KPOJ. (bp WA)

630 **ALASKA**, Juneau, KJNO dominant w/sportstalk 0255 10/3 "Capital's Information Station, AM 630 KJNO Juneau" ID. (bp WA)

666 **RUSSIA**, Kmosomolsk, 0959 10/3 good w/RR talk, then Kremlin chimes o/Japan. (bp WA)

680 **ALASKA**, Barrow, KBRW 0900 10/3 after years of trying, finally bagged them w/rp song, long ID, anti-drug PSA, another ID, then disco song, fair-good mixing w/KNBR. (bp WA)

693 **BANGLADESH**, Dhaka, 1428 10/4 fair-nil u/JOAB w/woman in presumed Bangla, distinctive horn mx, 1429 man mentioned Bangladesh, possibly as part of ID... 1430 launched into news with distinctive south Asian accent, one story mentioned "Education Minister Nurul Islam Nahid", gradually lost after 1435. (bp WA)

702 **NORTH KOREA**, 1234 10/4 good w/chorus, sounded like something from a church service but obviously not. //819. (bp WA)

711 **SOUTH KOREA**, HLCA, 1000 10/3 YL w/HLCA ID & pips mixing w/jammer, 1420 10/3 unusually loud w/bubble jammer QRM, easily separable from KIRO. (bp WA)

720 **RUSSIA**, 1000 10/3 chimes, pips, & man in RR good o/domestics. (bp WA)

729 **JAPAN**, Nagoya, JOCK, 1000 10/3 pips & call ID by man, into NHK nx //594 etc. (bp WA)

738 **SOUTH KOREA**, HLKG, KK talk loud 1421 10/3 w/CC talk in background. (bp WA)

800 **ALASKA**, Juneau, KINY, 0259 10/4 promo for website, "Hometown Radio AM 800 KINY" ID, then satellite oldies show. (bp WA)

819 **NORTH KOREA**, 1422 10/3 killing 820 w/female vocal song. (bp WA)

828 **CHINA**, Beijing, 1401 10/3, man in CC, then woman w/EE ID "828 AM, 100.6 FM, Beijing News Radio" mixing w/JOBB. (bp WA)

855 **CHINA**, CNR2 poor w/woman in CC 1349 10/3 //630. Better 1424 w/woman in CC //630, slight echo w/rumble het from presumed N Korea. (bp WA)

870 **ALASKA**, McGrath, 1400 10/4, fair w/jazz show, long ID for KUAC-FM Fairbanks and several other stations, including KSKO. (bp WA)

873 **JAPAN**, Kumamoto, JOGB, 1500 10/3 s/off w/pips, call ID, & NA //747 et al fair in splat. (bp WA)

920 **ALASKA**, Soldotna, KSRM, 1400 10/4 atop w/"Newstalk 920 KSRM Soldotna Kenai Homer" ID, then ANCR news. (bp WA)

981 **CHINA**, CNR1, 1123 10/4, incredibly loud, 20 db/S9 w/woman in CC. (bp WA)

1017 **CHINA**, 1300 10/4 loud w/opening of CRI KK service, man IDing in CC, woman in KK. (bp WA)

1026 **CHINA**, 1400 10/3 Beijing RGD ID mixing w/1-2 other CC stns. (bp WA)

1044 **CHINA**, CRI JJ Service good 10/3 1400 w/IDs by man in CC & woman in JJ, CRI theme song. (bp WA)

1053 **CHINA**, a couple of Chinese stations dominant here 1257 10/3, mix of pips 1300 w/Korean jammer way in background. No IDs heard. (bp WA)

1062 **SOUTH KOREA**, 1400 10/3, "HLKG" ID, mention of KBS, 3+1 pips, into KK news, China pips in background. (bp WA)

1071 **CHINA**, Tianjin, 1302 10/4, ID mixing w/Japan. (bp WA)

1080 **ALASKA**, Anchorage, KUDO, 1300 10/4 "Newstalk 1080 KUDO Anchorage" ID mixing w/others. (bp WA)

1098 **SOUTH KOREA**, 1301 10/4, bubble jammer mixing w/domestics. (bp WA)

**CHINA**, mystery, 2 sets of Chinese style pips 1200 10/3, then CRI theme song & ID in Chinese fair-pop mixing w/unid. I can't find any CRI broadcasts listed on this freq, so perhaps a relay by a local station? Possibly the same stn w/Chinese NA 1400, sounding like the version used to start CNR8 pgms (CNR8 listed in Kazakh at this time) //1107 et al. Also noted 10/4 1400 w/2 sets of China pips then NA, weaker than on 10/3. (bp WA)

1107 **CHINA**, Unid, 1400 10/3 Chine style pips, then Chinese NA, the version played at the start of all CNR8 pgms. CNR8 has Kazakh at this time, so possibly the Xinjiang PBS station, which is listed as Kazakh full time. (bp WA)

**UNID**, 1219 10/4 weird music on plucked instrument, possibly from central Asia, then man in unid language 1222. Also had talk in unid language 1230 and 1304. Xinjiang? Need to dig into this one further. (bp WA)

1116 **CHINA**, CNR2 weak //630 1423 10/3. (bp WA)

1134 **CHINA**, CNR1, noted w/3 pips at bottom of hour 1230 10/3 //945, very dominant o/Korea w/no sign of Japan. Same thing 1400, including clear "KBS Hamminjok Bangsong" ID by YL. (bp WA)

1143 **TAIWAN**, 1400 10/4, Fisheries Station w/steel drum theme mx after 3+1 pips. (bp WA)

1161 **UNID**s, wild mix of stuff at ToH 1400 10/3: 2-3 sets of pips, chimes, CC talk w/possible ments of Guangbo & AM/FM freqs, then KK talk took over. (bp WA)

1170 **CHINA/SOUTH KOREA**, mix of CNR1 and KBS strong o/KPUG w/pips & IDs 1400 10/3. (bp WA)

1179 **CHINA**, Yangzhou, 1300 10/4, pips and "Yangzhou Renmin Guangbo Dientai" ID by woman, fair mixing w/unid u/KEX IBOC hash. (bp WA)

**UNID**, 1304 10/4 talk in unid language, perhaps Mongolian but not sure, briefly surfacing through KEX IBOC. (bp WA)

1188 **CHINA**, Yunnan, CRI theme song 1400 10/3 slightly atop jumble of other stns. (bp WA)

**SOUTH KOREA**, 1400 10/3 VOA KK service using FEBC tx, VOA ID poor mixing w/CRI. (bp WA)

1197 **JAPAN**, 1250 10/4 good w/pop vocal song //1440. (bp WA)

1230 **ALASKA**, Sitka, KIFW 0355 10/3 briefly atop w/ad for Flyaway Fly Shop. No ID but web search confirmed the store as being in Sitka. (bp WA)

1251 **RUSSIA**, 1200 10/4 V of Russia IS fair, then theme music and s/on in CC. (bp WA)

1278 **CHINA**, Hebei, 1200 10/4, CC talk sounding like an echo chamber, pips, then HHHeebbbbeesii RGD ID. (bp WA)

1296 **CHINA**, 1200 10/4, CRI theme music weak, then unreadable amnt. (bp WA)

1323 **CHINA**, CRI Russian service loud 1115 10/4 w/Radio Kitaya ID. Slight echo, from a second tx site. (bp WA)

1330 **ALASKA**, Juneau, KXLJ 0359 10/3, dominant w/ESPN stuff and legal ID. (bp WA)

1341 **CHINA**, Hellingjiang, mx //621 1438 10/3. (bp WA)

**JAPAN**, NHK1 1436 10/3 poor //1503, mixing w/2 CC stations. (bp WA)

1359 **CHINA**, CNR1, 1434 10/3 weak in 1360 splat //1377, ID fair 1200 10/4. (bp WA)

1377 **RUSSIA**, Vladivostok, R Yunost, 1154 10/3 good-fair w/thumpy techno-pop & Russian DJ //1008 mostly o/China. (bp WA)

1422 **CHINA**, Dalian, mx pips & "Dalian Renmin Guangbo Dientai" ID dominant 1200 10/3, weaker ID at 1300, not listed in PAL/WRTH. (bp WA)

1440 **CHINA**, Nei Menggu, pips & start of CNR8 Mongolian pgm //1458 1300 10/3, fair mixing w/Japan & KMED. (bp WA)

1449 **JAPAN**, 0900 10/4 jingle and time tone //1287 good. (bp WA)

1467 **SOUTH KOREA**, 1200 10/3 KK talk & 3+1 pips fair. Woman talking w/cello music in background //711 1316 10/4. (bp WA)

1475 **SABAH**, Sandakan, 1145 10/4, briefly good w/male talk hetting 1476. (bp WA)

1494 **JAPAN**, 1210 10/4 man in JJ stop rumble of carriers, not //1287, so probably Sanyo Hosio. (bp WA)

1512 **CHINA**, Jinan, 1355 10/3 CC station loud w/phone talk, brief mx before ToH, pips & YL anmt 1400, then ID as "Jinan jingji guangbo" mentioning 3-4 AM & FM freqs. (bp WA)

1530 **UNID**, 2 Asian stations mixing w/KFBK 1412, no IDs hrd. (bp WA)

1548 **SRI LANKA**, DW 1304 10/3 man in German good. (bp WA)

1557 **CHINA**, Hebei, 1200 10/3 unid w/5+1 pips, then YL in CC, dominant, w/occasional QRTM from WYFR. 1240 had ID as "Hebei ("Wan-bay") Renmin Guangbo Dientai", good at times. Two Hebei stns listed here, not sure which one it was. (bp WA)

1566 **CHINA**, 1330 10/3 & various other times CC talk w/HLAZ, no ID hrd. (bp WA)

1575 **CHINA**, 1200 10/3 pips & CNR1 theme song weak w/VOA, good w/pips and ID 1000 10/4. (bp WA)

**THAILAND**, VOA quite good 1256 10/3 w/Lao pgm, many ments of VOA, website, Washington DC, etc, then Vietnamese pgm at 1300. (bp WA)

1593 **CHINA**, loud 10/3 1405 //945. (bp WA)

1602 **JAPAN**, NHK2, 1319 10/3 unknown outlet here w/wx, local ID if any buried in splatter 1320, then EE lesson fair-nli. (bp WA)

bp WA **Bruce Portzer**

Drake R8A, Icom R-75, RFSpace SDR-IQ, Northwest Beverage

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### The Active Passive Loop

by Kevin Schanleic

**Introduction:** Many DXers use a passive loop antenna to augment the ferrite antenna in a portable receiver, using either a commercial loop such as the Terk AM Advantage or perhaps a much larger home-made loop. The passive loop is typically used to increase the signal levels that reach the ferrite antenna, and can easily make the difference between clear reception and nothing at all. Additionally, as discussed in the article [Using Passive Loop Antennas](#) (published in the October 11 2008 DXM, and at [www.dxr.ca](http://www.dxr.ca)), by judiciously choosing the relative position of the passive loop and receiver, further DX techniques such as selectivity enhancement, phasing and interference notching are also readily accomplished.



This article provides information on the construction and use of an "active passive" loop (APL). This design uses the active circuitry of a desktop loop to tune, amplify and sharpen the effect of an air-core loop, which can then be passively coupled to a portable receiver. As discussed below, it provides gain and selectivity increases well in excess of those from a 72-inch diameter air-core passive loop, yet is substantially smaller and more portable. Additionally, it represents a significant improvement over the ferrite loopstick typically available on desktop active loops.

**The Importance of Q:** A critical factor that affects the overall gain and selectivity realized from using a passive loop antenna is its tuning sharpness, or "Q". When a passive loop is tuned to resonate with the receiver, a pronounced peak in signal will occur at a certain frequency. Any impedance in the circuit, such as resistance in the wiring, tuning capacitor and other components, will tend to decrease the Q and therefore the magnitude of this peak, and also broaden the range of frequencies that are amplified. Therefore, passive loop designers often use Litz wire, high-quality variable capacitors and careful construction techniques in order to maintain Q at the highest possible level.

A great way to artificially increase the Q to much higher levels is to use an active circuit which provides Q multiplication, sending a portion of the signal back into the tuning circuitry to provide a feedback circuit. As the feedback is increased, the circuit will approach oscillation. However, just prior to oscillation, the Q of the circuit will increase dramatically. This Q multiplication principle has been used to great advantage in products like the Quantum Loop, where an eight-inch ferrite loopstick is connected to an active circuit for amplification and Q multiplication. The result is an impressive

amount of gain and sharp selectivity. (I should note that while I use the Quantum Loop base unit for this project, there are other commercial and do-it-yourself units that can be used, and I have no connection to the maker of the Quantum Loop, other than being a satisfied customer.)

However, the amount of gain from a small ferrite loopstick is limited, especially on the low end of the band, and a ferrite-based desktop loop cannot easily

be coupled to a portable receiver unless you use a separate coupler. By substituting a much larger air-core loop for the ferrite loopstick, one can take advantage of the larger loop's signal capturing ability, resulting in an active air-core loop that can also be passively coupled to a portable receiver (thus "active passive" loop). This also allows you to take advantage of passive phasing, notch out adjacent interference, and other passive loop strategies.

**Building the APL:** In principle, any air-core loop will work, as long as the inductance is such that the base unit can tune the entire band. For the Quantum Loop base unit, the proper inductance is approximately 160-170 uH; this is substantially lower than the 250 uH or so typically found on passive loops, owing to the internal capacitance of the base unit.

For this article, I have used what I call a *Crate Loop* (described in the January 10 2009 DXM and at [www.dxr.ca](http://www.dxr.ca)), which is 20 turns of stranded wire (in my case, 18 gauge) wound around a standard filing crate that measures approximately 13 x 15 inches. Most any size frame may be used, and a rule of thumb is to start out with about 100 feet of wire and see what the tuning range is; if you can't tune to the top of the band, take a turn off and check again until you get the right number of turns.

To connect the air-core loop, the Quantum Loop base unit has a 3-conductor, 1/4" jack which normally mates to a 3-conductor plug on the loop. Inside the stock ferrite loopstick "head" is a center-tapped coil that is connected to the base unit as follows:

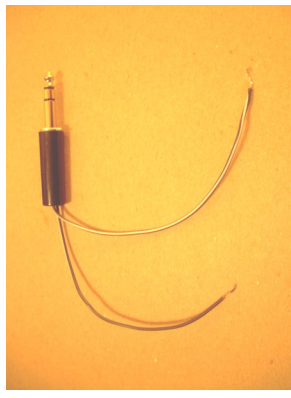
- the tip of the plug goes to one side of the coil
  - the middle conductor of the plug goes to other side of the coil
  - the base/shaft of the plug is connected to the center tap of the coil
- In practice, I have found that the center tap connection really isn't necessary, and therefore you can use just a single loop. The two ends of the loop's coil may therefore be connected to the tip and middle sections of the Quantum base unit's jack using a 3-conductor, 1/4" plug, leaving the base/shaft connection unused (see picture, above). The final connections to the two wires from the air-core windings should be as short as possible to reduce stray capacitance and soldered.

**Using the APL:** Operation of the APL is quite similar to that of any other passive loop. To familiarize yourself with its operation, start with the gain and Q multiplication controls of the Quantum base unit fully counter-clockwise (or simply turn the base unit off). After entering the desired frequency on your portable receiver and placing it near the APL (right), select the appropriate tuning range on the Quantum base unit and adjust the tuning to peak the signal; you are in essence using the APL as a "straight" passive loop.

Next, power up the base unit and slowly start increasing the Q multiplication control, during which time the audio should become more and more muffled as the Q multiplier narrows the received signal's bandwidth. You will likely have to re-tune the base unit slightly, since at high levels of Q,

any deviation from being perfectly tuned will be more obvious. If you go too far with the Q multiplier control, indication of oscillation may be a strong heterodyne tone, what sounds like an outboard motor, or perhaps a complete loss of signal or a strong local station suddenly taking over.

Once you are at the optimum Q multiplication point, by rotating the base unit's tuning knob slightly down- or up-band, you will be able to focus on either the lower or upper sideband, respectively. This will allow you to avoid interference from adjoining frequencies, approximating the results if using a receiver with selectable sideband (SSB), as well as providing more treble to the audio. If your receiver can tune in less than 9 or 10 kHz steps, you can de-tune in one direction or the other, and then re-adjust the tuning of the APL for best reception. As discussed above, you can vary the relative position of the



receiver and APL in order to do passive phasing, interference notching and other techniques.

**Gain Comparisons:** To assess how well the APL works as a passive loop, I compared it with three other loops (right):

- A 42x60 inch air-core loop, equivalent to a 72-inch diagonal square loop
- A non-amplified Crate Loop with 20 turns of wire (ie, the APL powered off)
- A commercially-available Terk loop

In my tests, I chose weak daytime stations that had constant signals, so that each of the four loops would have the same signal to work with. Testing was conducted with a Tecsun PL-300WT (Grundig G8) placed next to each loop in a facing orientation.

As expected, the non-amplified crate loop was significantly weaker than the APL or large air-core loop, and the Terk loop was weaker still. Realizing these two loops weren't even remotely competitive, I then closely compared the APL and the large air-core loop, choosing several frequencies on the lower, middle and upper portions of the band.

In a nutshell, the APL consistently and easily triumphed over the large air-core loop. Weak stations that were mere mumbling on the large air-core loop were intelligible on the APL, and stations subject to fades and intelligibility losses were brought in with a solid signal. Three audio recording examples can be heard at [http://www.dxrer.ca/files-area/cat\\_view/84-soundbytes-classic-and-current-mp3](http://www.dxrer.ca/files-area/cat_view/84-soundbytes-classic-and-current-mp3), on the second page and in the files area of the Yahoo! UltralightDX site; in each, results with the large air-core loop comprise the first half of the audio clip, and the final half is with the APL.

I then connected the large air-core loop to the Quantum Loop base unit to see how it compared. As an APL, the larger air-core loop generally had a few more dB of gain compared to the Crate Loop version, although the actual signal-to-noise (and therefore readability) was about the same in most instances, and occasionally the Crate Loop was slightly better. However, in the upper part of the band, the large air-core loop was in many cases noticeably better than the Crate Loop. So, if you have the space, a large active, passive loop may be preferable, and will clearly out-perform the "straight" large air-core loop itself. However, the crate-sized loop is nearly as good and is much easier to use and position, especially when you are DXing indoors.

**Selectivity Comparisons:** As well as providing substantial gain, the sharp tuning of the APL can provide an increase in selectivity not possible with a "straight" passive loop. This benefit is even more pronounced on Ultralight receivers such as the Sony SRF-T615 and Sangean DT-400W, which are very good receivers except for their poor stock filtering and their inability to tune in 1 kHz steps to avoid interference. By using a sharply tuned loop like the APL, channels adjacent to strong local stations are much more likely to yield intelligible audio. A discussion of where the receiver should be placed relative to the loop (adjacent to it or facing it) in order to optimize the selectivity increase is discussed in the [Using Passive Loop Antennas](#) article.

For those in search of trans-oceanic DX targets, selectivity is even more important. Additionally, in tight situations 1 or 2 kilohertz away from a domestic, such as 891 kHz versus 890 kHz, being able to tune away from the domestic interference is vitally important, not only to avoid the domestic station's audio sidebands, but also to reduce or eliminate the heterodyne that is created by the interaction between the two stations' carriers. As a result, I have found that the APL's ability to dramatically narrow the receiver's selectivity and pin-point its gain makes it much more effective than a larger "straight" passive loop for trans-oceanic DXing.

For example, I recently was at the beach using a Kchibo D96L with its fairly impressive 1 kHz (per sideband) DSP filtering, as well as an Eton e100 with an even more impressive Murata filter installed. When used with a broadband antenna or straight passive loop antenna, each receiver was able to be detuned by 1 kHz (ie, from 891 to 892 kHz), but the Murata filter's excellent shape factor and deep skirts mean that it will always produce a better result than the D96L's filter. De-tuning by 2 kHz (i.e., to 893 kHz) on either receiver resulted in the "Donald Duck" audio indicative of losing the carrier frequency, similar to SSB transmissions received in AM mode, since both receivers' filtering had sliced most of the carrier off.

However, when used with an APL tuned to the carrier at 891 kHz, the slightly-wider filter on the D96L allowed it to be detuned by 2 kHz (i.e., to 893 kHz) and still retain good audio. By tuning farther away from the interference, the resulting audio had significantly less interference and was less muffled than that of the Eton e100, whose Murata filter is so tight that one can still only detune by 1 kHz. An audio clip that illustrates these differences is available as Clip G in the "Detuning with the Kchibo D96L" subdirectory of the "Members Sound Files" area at the Yahoo! UltralightDX web site.

**Using a Fine Tuning Capacitor:** To facilitate making fine adjustments at the top of the band where the frequencies are bunched together, in the picture at right you can see a small-value (5-30 pF) fine-tuning capacitor, secured to the top of the base unit with double-sided foam tape. It is tied to the same two connections as the main loop's coil wires, and so in parallel with the capacitance of the Quantum base unit.

If you decide to add one to your set-up, make sure you use a large knob with it, since hand capacitance will otherwise make tuning difficult. Also, the extra 5 pF or so of capacitance may require that you spread the loop's wires out, or perhaps remove a turn, so that you can still tune to the top of the band.

**Nulls and Coil Depth:** Those familiar with tuned loop antenna design will notice that the coil depth of the crate loop, approximately 8 inches, is quite large in comparison with its 13 x 15 inch outside dimensions. This will somewhat degrade the quality of the nulls achieved by the loop when positioned broadside to a station that one wishes to attenuate or eliminate. To increase the nulling ability of the loop, the turns can be brought much closer together, ultimately to a coil depth of only 2 inches or so. However, this will increase the inductance of the loop as well as the distributed capacitance, meaning that you would have to remove a number of turns of wire in order to still be able to tune the entire band. One could also use twin-lead antenna cable to make an even thinner loop.

**Mobile/DXpedition Usage:** The APL is lighter and much more portable than a large air-core loop, and the Quantum Loop base unit runs on a 9-volt battery. Therefore, the APL is well suited for DXpeditions to the seashore or anywhere else you can't or don't want to use AC power. A single 9-volt battery will last quite a while, depending upon how much you use the amplifier and Q multiplication. As the battery weakens, you will find yourself needing to use more and more Q multiplication, and you will notice the red LED power indicator on the Quantum base unit grow progressively dimmer; therefore, taking an extra battery might be a good idea.

**Using Ferrite Couplers:** In general, it becomes more and more difficult to reach the oscillation point as the received frequency goes down, so the position of the Q multiplier knob will continually change. In fact, with my Crate Loop, the base unit's Q multiplier is able to cause oscillation down to only 600 kHz or so. I therefore added a small ferrite coupler to radiate the base unit's output back to the air-core loop in order to provide even more feedback. While in the picture at right I used the coupler from a C-Crane Twin-Coil antenna, a coupler can easily be made by wrapping a dozen or so turns around a spare ferrite bar (see picture below) and attaching it to a lead (I use good old RCA plugs).

The coupler is connected to the output of the Quantum Loop base unit (ie, the 50 ohm connection that you would normally feed to a communications receiver). Placing it towards the center of the air-core loop's coil will result in the largest amount of feedback. An important note is that the orientation of the coupler is critical, in that the field created by the coupler has to be going in the right direction with respect to the windings of the main loop. In the picture above, if the coupler were turned such that the end with the red RCA plug were closest to you, it would not function as a feedback coupler, since its field no longer matches that of the main loop. So, prior to securing it in place, make sure it is going the right direction!



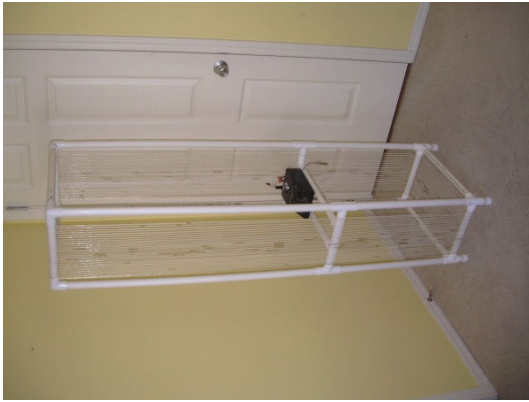
To use the APL with a coupler in this way, simply tune the loop as you normally would, and then slowly advance the base unit's gain control, which will provide the same effect as advancing the Q multiplication control. I have found that using a coupler in this way to raise the Q of the loop works so well, in comparison with using the Q multiplication control, that I use the gain control almost exclusively, rarely touching the Q multiplier knob. For some reason, the produced audio is better, and it provides more precise control over the Q of the APL.

**Connecting to a Communications Receiver:** Of course, the Quantum Loop is ordinarily used by connecting its output to a communications receiver. With the air-core attached, you can still run the output from the base unit to a receiver as is normally done. By using a crate loop instead of the stock ferrite loop head, though, I have found that an extra 10-15 dB is realized, especially on the lower part of the MW band.

If you are using a coupler as above to control the loop's Q, the connection to a communications receiver is accomplished by using a standard Y-adaptor. The "input" of the Y-adaptor is connected to the output of the base unit, and the two "outputs" of the Y-adaptor are sent to the coupler and communications receiver, respectively. While one might suspect some unwanted interaction between the receiver and coupler would occur, in practice it works just fine.



If you wish to run the output of the base unit to a portable receiver that doesn't have an antenna jack, a second coupler can also be used instead of the direct connection as with a communications receiver. Again, this second coupler need only be a dozen or so turns around a small ferrite bar, and is placed near the internal ferrite in the portable receiver. I have found that this "direct" method of coupling the APL to a portable receiver results in significantly higher signal levels on the receiver than if the loop and receiver were coupled passively, although the down side is that you cannot take advantage of passive phasing, facing/adjacent notching, or other strategies which are afforded by passive coupling.



**Longwave and Shortwave Versions:** Just as the Quantum Loop offers longwave and shortwave ferrite loop heads, the APL can be used with a larger air-core loop to cover these ranges as well. The longwave version shown in the picture at left uses approximately 300 feet of wire wrapped around a large form, in this case a PVC frame, with an overall inductance of about 1,600 uH.

Compared to the stock longwave ferrite loop head for the Quantum Loop, the additional gain of this larger air-core is staggering, perhaps 20-30 db better. For chasing NDB beacons, this set-up is much better than the commercial active whip I have mounted on my roof, and allows for nulling that is impossible with the omnidirectional whip.

The shortwave version would have substantially fewer turns, using perhaps 30-40 feet of wire, and I have built one that tunes up to 10 Mhz. Since I don't have the shortwave ferrite loop head for the Quantum Loop, I cannot say how they compare, although my air-core version is very sensitive.

**Summary:** By connecting a modest sized air-core loop to a Q multiplication circuit, the resulting gain and bandwidth control will greatly exceed that produced by a traditional passive loop many times larger. Whether in your home or at the beach, the Active Passive Loop can help you pull in more DX. If you have any question about the construction or operation of the APL, drop me a line at [satyat\(at\)sounddsi.com](mailto:satyat(at)sounddsi.com).

## SPORTCHANNELS IRCA

Compiled by: Dale Park – PO Box 10640 – Honolulu HI 96816

E-mail: [dxfool@aol.com](mailto:dxfool@aol.com)

Aloha. Football's in full swing and hockey just opened, but look what's on the horizon – indoor soccer and minor league basketball! First though, let's check out the college football network info I have laying around as of 10/17/09—

### NCAA COLLEGE FOOTBALL

<b>Arizona WILDCATS</b>	970 KAVM-AZ	1340 KIKO-AZ	Brian Jeffries, Lamont Lovett
	1100 KFNX-AZ	1420 KTAN-AZ	
	<b>1290 KCUB-AZ</b>		<b>FM—</b> 107.5 KHYT-AZ
	96.5 KDAP-AZ		96.5 KDAP-AZ
	102.3 KWRQ-AZ		102.3 KWRQ-AZ
SYNDICATOR: IMG Sports			
<b>Arizona SU SUN DEVILS</b>	1230 KATO-AZ	1490 KYCA-AZ	Tim Healey, Jeff Van Raaphorst, Doug Franz-s
<b>620 KTAR-AZ</b>	1340 KIKO-AZ	1650 KBXZ-AZ c	92.1 KZUA-AZ e
780 KAZM-AZ	1400 KRVZ-AZ a		92.3 KTAR-AZ b
980 KNTR-AZ		<b>FM—</b>	96.5 KDAP-AZ
SYNDICATOR: ISP Sports. NOTES: a – CP for 1370. b – Backup for KTAR-AM. c – Reportedly off the air. e – CP for 98.5.			
<b>Baylor U BEARS</b>	1530 KZNX-TX	92.7 KJAK-TX	John Morris, JJ Joe, Ricky Thompson-s, Bradford Hines-ST
630 KSLR-TX	<b>1660 KRZI-TX</b>	98.5 KCUB-TX	100.7 KKHT-TX
820 WBAP-TX	<b>FM—</b>	100.1 KYBI-TX	107.9 K300BD-TX r
940 KIXZ-TX		100.7 KPXI-TX f	
1260 KWNX-TX pfg	92.5 KULL-TX		
SYNDICATOR: ISP Sports. f – Listed by team but not by ISP. g – Regular format is Spanish.			

## Boise SU BRONCOS

<b>580 KIDO-ID</b>	790 KJRB-WA	1380 KSRV-OR	Bob Behler, Pete Cavender
590 KID-ID	960 KALE-WA	<b>FM—</b>	98.3 KSNQ-ID
630 KF XD-ID p	1240 KWIK-ID	98.3 KDZY-ID	107.5 KYZK-ID i

SYNDICATOR: Peak Broadcasting. NOTE: i – Listed by KIDO but not by team.

## Brigham Young U COUGARS

690 KBLI-ID	1400 KART-ID j	100.1 K261BP-UT rk	105.1 KAUU-UT k
<b>1160 KSL-UT</b>	1450 KIOV-ID k	102.3 K272CI-UT rk	105.5 KTHK-ID
1210 KUNF-UT	<b>FM—</b>	102.7 K274AV-UT rk	106.3 K292DO-UT rk
1260 KBLV-ID r	95.9 KMGR-UT	<b>102.7 KSL-UT r</b>	106.3 K292EE-UT rk
1280 KDOX-NV	99.3 K257DL-UT rk	103.1 K276CU-UT rk	

SYNDICATOR: ISP Sports. NOTE: j – Listed by team but not by ISP. k – Listed by ISP but not by team.

## California GOLDEN BEARS

<b>540 XESURF-CA</b>	970 KESP-CA	1380 KTKZ-CA	Joe Starkey, Troy Taylor, Todd McKim-s
<b>810 KGO-CA</b>	1260 KGIL-CA		

SYNDICATOR: ISP Sports

## California-Los Angeles (UCLA) BRUIJS

<b>570 KLAC-CA</b>	970 KHXY-CA	1360 KWDJ-CA	Chris Roberts. Matt Stevens, Wayne Cook-s
610 KAVL-CA	1320 KCTC-CA	1550 KXEX-CA	<b>FM—</b>
		96.1 KSLK-CA r	

SYNDICATOR: ISP Sports

## California SU-Fresno BULLDOGS

<b>580 KMJ-CA</b>	1460 KION-CA	1480 KYOS-CA	1560 KNZR-CA
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Paul Loeffler, Jordan Christensen, Ralph Wood-s

SYNDICATOR: Learfield Sports

## Colorado BUFFALOES

<b>850 KOA-CO</b>	93.7 KSBV-CO	100.5 KRSJ-CO	105.5 K288BD-CO r
980 KGLN-CO	93.7 K229AI-CO r	103.1 K276AU-CO r	105.5 K288DA-CO r
1340 KM TT-CO	93.9 K230AN-CO r	104.9 K285BW-CO r	106.1 KNFO-CO
	<b>FM—</b>	104.3 K232AD-CO r	107.5 K298AT-CO r
93.5 KALQ-CO	96.7 K244CI-CO r	104.9 K285AN-UT r	107.9 KDZA-CO

## Hawai'i WARRIORS

790 KKON-HI r	900 KNUJ-HI	<b>FM—</b>
850 KHLO-HI	<b>1420 KKEA-HI</b>	87.75 KESU-HI m

NOTE: m – Audio carrier of low-power station KESU-TV analog channel 6, known as "Coast FM."

## Idaho SU BENGALS

<b>930 KSEI-ID</b>	1270 KTFF-ID	<b>FM—</b>
1230 KRXK-ID r		98.1 KGTM-ID

Jerry Miller, Brad Bugger, Kali Mann-s-h, Mark Liptak-ST

## Montana GRIZZLIES

560 KM ON-MT	1240 KLTZ-MT	101.5 KQWE-MT
750 KERR-MT	<b>1290 KGVO-MT</b>	105.9 KPBR-MT
1050 KMTA-MT	1340 KCAP-MT	107.5 KENR-MT
1070 KATQ-MT	1340 KPRK-MT	
1180 KOFI-MT	1400 KXGN-MT	99.3 K257AF-MT r
1230 KXLO-MT	1490 KBSR-MT	100.1 KATQ-MT

Mike Holien, Scott Gurnsey, Greg Sundberg-s

## Southern California TROJANS

<b>710 KSPN-CA</b>	1010 KXPS-CA	1280 KXTK-CA	1510 KSPA-CA
790 KFPT-CA	1140 KSFN-NV q	1360 KUIK-OR x	<b>FM—</b>
800 XESPN-CA	1230 KGEO-CA	1430 KFIG-CA x	98.9 XHMORE-Cat
920 KBAD-NV o	1230 KSZL-CA	1450 KVEN-CA	

NOTE: o – Listed by team but not by KSPN. q – Listed by KSPN but not by team. t – Joined network 10/05.

**ABBREVIATIONS USED:** a – away games only, b – backup or conflict station, d – daytime or day games only, h – home games only, n – night games only, p – partial schedule, r – relays another station, s – sideline reporter, ST – studio host, "r" – personnel alternate. In network listings, flagship stations are in **boldface**. College campus stations are in lowercase. Data sources and station cities are available upon request from [dxfool@aol.com](mailto:dxfool@aol.com), as well as updates and corrections to previous

columns. Folks, this is a one-person effort, which explains the lag time between columns. Any assistance with info is greatly appreciated. Pro football and hockey stuff will be on the docket the next time I join you. Until then, Do widzenia!

## 2009 IRCA CONVENTION REPORT

Mike Sanburn

The 2009 IRCA convention was held in Albuquerque NM. For some, it was their first visit to the Land of Enchantment. Thursday was pretty much a get settled and meet each other day. We had a few rain showers move through to make everything squeaky clean. Some of the group went to Black Angus that evening for dinner. Friday, our first tour was a gem of a station, KKO 770. It was led by Mr Art Ortega. We received an informative talk in the conference room and then were split into two groups and shown all of the inner workings. There are a total of 7 stations here including KNML 610 and KRZY 1450. One of our tour guides, Mr Glenn Hebert would also be our guest speaker the following evening. After saying our goodbyes, we headed over to the KALY 1240 studios located in a business park. Nikki Courtney was gracious enough to give us a full tour of the New Mexico/DX outlet. After a dinner break, back at the Taos Room, Bob Wien conducted the Radio Disney quiz. Saturday saw many of us heading out for tower-sighting and photo-ops. I rode along with the longest excursion, 8 stations in all. We then held the annual business meeting discussing current pressing club matters. This was conducted by Phil Bytheway and Doug Pfifer. We made it to the Golden Corral in time for our 6 pm banquet reservation. It was a nice all-you-can-eat buffet. (I opted for steak and potatoes) We were once again joined by Mr Glenn Hebert of KKO who has a wealth of knowledge regarding that station. He is also a good friend of Mr and Mrs Johnson and presented both of them with some special gifts from the station. Back at the hotel, Phil Bytheway was presented with a special plaque and radio as thanks for his tireless work on the DX Monitor. Congratulations also to TVA winner Nancy Johnson, and RHA winner Gary DeBock! Phil and I presided over the IRCA auction where we sold everything from radio station mugs, to an autographed Lawrence Welk photo. We netted over \$300. On Sunday some of the members rode the worlds' longest tramway to the top of Sandia Peak. Many thanks to the stations who contributed so much. And to Bob Wien for helping me greatly with this event. And thanks of course to all who attended! This was the 7th convention that I've hosted for IRCA and hope to do more in the future. Links to photographs of this years' event should appear on the IRCA website. 73 and GOOD DX!

- |                         |                          |                            |
|-------------------------|--------------------------|----------------------------|
| 1. John Adams OR        | 9. John Johnson MT       | 17. Doug Pfifer OR         |
| 2. Donald Barnes CO     | 10. Mrs Nancy Johnson MT | 18. Nigel Pimblett AB      |
| 3. Bill Block AZ        | 11. Pat Martin OR        | 19. Mike Sanburn (Host) CA |
| 4. Phil Bytheway WA     | 12. Frank Merrill IL     | 20. Mike Stonebridge AB    |
| 5. John Callarman TX    | 13. Curtis McMenamin CA  | 21. Stan Weisbeck WA       |
| 6. Dennis Gibson CA     | 14. Bill Nittler CO      | 22. Bob Wien CO            |
| 7. Dave Gordon CA       | 15. Mrs. Nittler CO      | 23. Mrs Trudy Wien CO      |
| 8. Mrs Shelly Gordon CA | 16. Andrew Ooms AZ       | 24. Dave Williams OR       |

(no pictures provided - sorry)

### Antenna Reference Manual, Volume 3

A compilation of 17 articles on antennas, phasing, impedance matching, and RF amplification for medium wave DX'ers, some of the articles were published in DX News between 1999 and 2004. 8 1/2" X 11" bound book format. IRCA/NRC member price: \$11.95; non-member price \$16.95; overseas customers, please contact us for exact price. Order from: NRC Publications - PO Box 473251 - Aurora CO 80047-3251 (CO residents, please add 3.5% sales tax). Please state your IRCA membership affiliation when you order.

### The County Cross Reference

What a time-saver! A complete list of counties, parishes, and similar political divisions in the U. S. and Canada. Two lists are included: alpha by county, and by state. Compiled by Bill Hale and designed and produced by Wayne and Joan Heinen. \$8.95 for IRCA/NRC members, \$11.95, non-members; overseas customers, please contact us for exact price. Order from: NRC Publications - PO Box 473251 - Aurora CO 80047-3251 (CO residents, please add 3.5% sales tax). Please state your IRCA membership affiliation when you order.

### DX Audio Service

Back issues on audio cassettes: \$3.00 each; specify month and year. Order from: NRC Publications - PO Box 473251 - Aurora CO 80047-3251 (CO residents, please add 3.5% sales tax). Please state your IRCA membership affiliation when you order.

### The Challenging Crystal Set

For hobbyists demanding the ultimate DX challenge. Ray Cole's publication detailing step-by-step procedures in building a crystal set is for you! Only \$4.00 for IRCA/NRC members; non-members, \$5.00. Order from: NRC Publications - PO Box 473251 - Aurora CO 80047-3251 (CO residents, please add 3.5% sales tax). Please state your IRCA membership affiliation when you order.

## IRCA Foreign Log

**IRCA Foreign Log #12.** This edition contains ALL the SDXM DXWW-E, DXWW-W and DXWW-II tips from 8/02 to 8/05. All collated and in frequency order by TA, PA and TP for each DXWW column. Prices: IRCA members - \$10.00 (US/Canada/Mexico/sea mail), \$11.50 (rest of the Americas/Europe airmail), \$12.50 (Australia/New Zealand airmail). Non-members - add \$2.00. The .pdf version of the IRCA Foreign Log #12 is also available for download from the members section of the IRCA's web site: [www.ircaonline.org](http://www.ircaonline.org).

The IRCA has published nine additional volumes of the **IRCA Foreign Log**. 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 Bookstore** still has volumes 3, 4, 6, 7 and 8 of the **IRCA Foreign Log** available for \$2.50 each (overseas airmail add \$2.50/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.

To order any of the above items from the **IRCA Bookstore**, send the correct amount (in US funds payable to **Phil Bytheway** - which will be returned if not made out to **Phil Bytheway**) to: **IRCA BOOKSTORE, 9705 MARY NW, SEATTLE WA 98117-2334** (email: [phil\\_tekno@yahoo.com](mailto:phil_tekno@yahoo.com)).

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 in printed form 30 times a year (weekly November through March, monthly April to November). **DX Monitor** contains members' loggings, articles on radio stations, receiver reviews, technical articles, DX tips, and other material of interest to Broadcast Band DX hobbyists.

### CLUB OFFICERS AND CONTACT INFORMATION

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**Secretary-Treasurer:** Lynn Hollerman, PO Box 60241, Lafayette LA 70596

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

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e-mail: [phil\\_tekno@yahoo.com](mailto:phil_tekno@yahoo.com) - (all material for publication goes here)

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Destination	SDXM	DXM	DXM+SDXM
USA	\$10	\$31	\$41
Canada & Mexico (group 2)	\$10	\$40	\$50
Western Europe (group 3)	\$10	\$52	\$62
Australia/NZ/Japan (group 4)	\$10	\$52	\$62
Rest of world (group 5)	\$10	\$52	\$62

**TRIAL MEMBERSHIP** (10 issues) **IO\_USA-CANADA-MEXICO** only: \$10 DXM, \$12 DXM / SDXM Installation Rate: 2 payments a year of one-half dues plus \$1.

**Make checks and Money Orders in US funds payable to IRCA.**

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**Sample copies of DX Monitor** are available. Along with your request, please include first class postage of: 42c for USA addresses, 69c for Canada and Mexico or 2-international Reply Coupons each, for other countries. Send to: **IRCA, PO Box 3547, Tualatin OR 97062.** (Maximum two samples per year.)

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](mailto:lynnhollerman@yahoo.com).

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