



# DX MONITOR

The official publication of the  
International Radio Club of America

January 28 2017 – Volume 54 Number 21 – Edition 1728 – ISSN 899-9733

Still looking for a new editor for DXWorldWide-West, DX Test Coordinator and backup Editor-in-Chief. "DX Monitor" deadline – every Monday 6 PM PLT.

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**CALL FOR NOMINATIONS – Nick Hall-Patch – 1538 Amphion St – Victoria BC Canada V8R 4Z6**  
E-mail: [nhp@ieee.org](mailto:nhp@ieee.org)

### LAST CALL!!! Nominations for the IRCA 2017 Elections

IRCA members, it is time to think about who you would like to represent you as the next club **President, Secretary-Treasurer** and **Board of Directors**. Their terms will start on September 15th 2017 per the IRCA Constitution, Article III, Section 5, Part 2. Nominations will be open for President, Secretary-Treasurer, and seven members of the Board of Directors from December 15 2016 through January 31 2017. Only one nomination each for President, Secretary-Treasurer, and only seven nominations for the Board, shall be allowed each IRCA member. An eligible member may nominate his or herself. All nominations must be submitted in written (e-mail) form to the ECC by January 31st, 2017.

IRCA's Election Committee Chairman (ECC) is **Nick Hall-Patch**, email at: [nhp@ieee.org](mailto:nhp@ieee.org)

### LAST CALL!!! Nominations Are Open for the TVA and RHA for 2016-2017 Ted Vasilopoulos Award (TVA) Ric Heald Award (RHA)

**Ted Vasilopoulos** was a charter member of IRCA who died in 1965, and was known for his high DX standards and contributions to the club. This award in his honor is presented to the IRCA member who has contributed the most to IRCA and the DX hobby during the past several years. The following persons have won the TVA in the last five years and are ineligible this year: **Gary DeBock, Eric Bueneman, Nick Hall-Patch, Lee Freshwater** and **Richard Evans**.

**Ric Heald** was an enthusiastic IRCA volunteer and contributor. In 1995, after his passing, the RHA was created to recognize the IRCA member who most benefited the club in a particularly noteworthy way during the previous year. The following persons have won the RHA in the last three years and are ineligible this year: **Ernest Wesolowski, Phil Bytheway** and **Mark Connelly**.

All nominations, including a brief statement supporting the nomination, should be sent to **Nick Hall-Patch**, at [nhp@ieee.org](mailto:nhp@ieee.org)  
All nominations must be received no later than January 31 2017.

### IRCA Slogans List (January 2017)

This completely revised Slogans List includes radio slogans from the US and Canada (over 4500). The 2016 IRCA TIS/HAR LIST is posted on the IRCA website for all to download. The link is: <http://www.ircaonline.org/slogans.htm>

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

### DXM article Index

The first IRCA article Index has been posted on our web site. This is an Index to articles published in **DX Monitor** since the IRCA Reprint List was published in 2004 and is intended as a starting point to a complete Reprint List update. It is organized in the same way as the IRCA Reprint List with two new categories "UltraLight" and "DXpeditions". There are only a few article "descriptions" at this time, however most of the titles are self explanatory (I hope, hi). The index updated through the end of Volume 53 of **DX Monitor** (July 2016). Here's the link: <http://www.ircaonline.org/July%202016%20DXM%20Index.pdf>

### Pacific Asian Log Update

"I've just updated the Pacific Asian Log. It's now posted on the Radioheritage website: <http://www.radioheritage.net/>. You'll need to go through a couple of internal links to get to the download page, but you'll be able to either download the PDF version or use the interactive version. If you have problems, let me know. I can also send a copy directly.

There have been a modest number of changes since the last update (posted in September). I'll probably issue the next update in March or April. There are already a couple of changes needed to reflect the demise of Tahiti-738 and the 2 MHz Aussies: (Corrections and updates from users are always welcome and can be sent to [bportzer@comcast.net](mailto:bportzer@comcast.net) or [portzerbt@gmail.com](mailto:portzerbt@gmail.com).)

First issued in 2001, The PAL lists medium wave 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"**

### Annual Seattle area DX Get-together

I'll be holding my annual DX get together on Saturday **February 18 at 2 pm**. Consider yourself invited, and be prepared to talk about AM, shortwave, or TV-FM DX with like-minded persons. Bring radio stuff for show-and-tell if you'd like.

It will be held at my house: 6546 19th Avenue NE in Seattle, 206-522-2521. Potluck snack food (liquid or solid) is welcome.  
See you there! **Bruce Portzer**

### 2017 CONVENTION

The 2017 IRCA Convention will be in Reno NV on August 17-19 2017 hosted by **Mike Sanburn**. If you are interested in helping Mike, contact him at [mikesanburn@hotmail.com](mailto:mikesanburn@hotmail.com).



**WESTERN DX ROUNDUP – Nancy Johnson – 2922 S Olivewood – Mesa AZ 85212-2923**  
E-mail: [NancyJohnson@prodigy.net](mailto:NancyJohnson@prodigy.net)

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

### REPORTERS FOR THIS ISSUE:

(RB) **Rick Barton**-PO Box 5503-Peoria AZ 85385 [desertmoon\\_dxshack@inbox.com](mailto:desertmoon_dxshack@inbox.com)  
CountyComm GP-5/SSB, RadioShack SW-2000629

- (BB) **Bill Block**-Prescott Valley AZ [billblock@cableone.net](mailto:billblock@cableone.net)  
R8, Wellbrook ALA1530LNP
- (GH) **Glen Hansen**-64085 Olson Road-Deer Island OR 97054 [gbhansen2@outlook.com](mailto:gbhansen2@outlook.com)  
GPR-90, Hammarlund SP-600, R-3900A, various wires, Kiwa loop
- (JCJ) **John Johnson**-2922 S Olivewood, Mesa AZ 85212 [John\\_Johnson@prodigy.net](mailto:John_Johnson@prodigy.net)  
Icom IC-R75, Wellbrook ALA1530LNP
- (JP) **Jon Pearkins**-Edmonton AB [jon@pearkins.com](mailto:jon@pearkins.com)  
Sangean HDR-18
- (MS) **Mike Sanburn**-PO Box 1256-Bellflower CA 90707-1256 [mikesanburn@hotmail.com](mailto:mikesanburn@hotmail.com)  
Sangean DT 160

**OF SPECIAL INTEREST**

- 1150 KHRO **TX**, El Paso heard 1/20 at 0902 with "KHRO" and at 0903 "The Bridge 1150 AM" with new format of Catholic programming (old format had been oldies). (BB-AZ)
- 550 KLLV **CO**, Breen 1/16 good in KFYI null at 2345 with "K-Love, this is KLLV Breen" ID. Not new, but mentioned as must have been on daytime power. (JCJ-AZ)
- 650 KMTI **UT**, Manti 1/15 1920 Freedom Ford, other local spots, local country top 20 countdown. Good. (RB-AZ)
- 670 KLTT **CO**, Commerce City 1/15 1915 religious lecture, really strong pre-sunset here on Ultralight CountyComm GP-5/SSB. (RB-AZ)
- 720 XEJCC **CHIH**, Ciudad Juarez 1/13 in KDWN null 0002 with "XEJCC" ID and mention of "Radio Centro 1030." New for me. (JCJ-AZ)
- 770 KCBC **CA**, Riverbank 1/16 1027 ID "AM 770, helping the Bay Area stay strong," promo for Community Bulletin Board. (MS-CA)
- 880 KCMX **OR**, Phoenix 1/17 faded up in KRVN null, mixing with KHAC, 2347 with promo and "Weeknights at 6 on KCMX, Newstalk 880." New for me. (JCJ-AZ)
- 920 KLMR **CO**, Lamar heard 1/17 at 0854 with "KLMR." (BB-AZ)
- KVEL **UT**, Vernal 1/16 0050 break from Dennis Pranger Show replay to "On KVEL." Very good on SW-2000629, without any sign of splash or hash from 910 KGME. (RB-AZ)
- 930 KSEI **ID**, Pocatello 12/26 1630 fair signal with oldies and ID, soon lost in the jumble on SP-600 with Kiwa loop. Long time no hear. (GH-OR)
- 1100 KNZZ **CO**, Grand Junction 1/20 0130 good ID by luck during break in audio from local KFNX. (RB-AZ)
- 1130 KWKH **LA**, Shreveport 1/15 0045 sports recap and male "On AM 11-30, The TiGrrrr." Good over channel jumble on CountyComm GP-5/SSB. (RB-AZ)
- 1170 KYET **AZ**, Golden Valley 1/15 1800 very strong clear pre-sunset signal (4pm local), John Denver, other light pop country. Just missed ID, but got another shot at 1820, on Hammarlund HQ-180A with Terk loop. (RB-AZ)
- 1200 KYAA **CA**, Soquel 1/11 2330 "Immaculate Heart Radio" talk programming in a two way battle with CJRJ, on R-390A with E-W wire. (GH-OR)
- 1210 KEVT **AZ**, Sahaurita 1/16 1415 breaking from Thom Hartmann Show, enhanced conditions, strong steady signal. (RB-AZ)
- KRSV **WY**, Afton 1/12 1825 ID and ad for Home Depot, "Black Mountain Country," fair to good for a few minutes on SP-600 with N-S wire. (GH-OR)
- 1230 KAAA **AZ**, Kingman heard 1/17 at 1930 with "News Talk Leader K-triple A and K-triple Z." (BB-AZ)
- KINO **AZ**, Winslow heard 1/17 at 1930 with "Key-No." (BB-AZ)
- KGEO **CA**, Bakersfield heard 1/19 at 1929 with ad for California then "ESPN Bakersfield." (BB-AZ)
- KEXO **CO**, Grand Junction heard 1/15 at 1930 with "KEXO 1230 ESPN." (BB-AZ)
- KFUN **NM**, Las Vegas heard 1/18 at 1936 with "KFUN." (BB-AZ)
- 1240 KRDO **CO**, Durango heard 1/16 at 2000 with "KRDO Durango." (BB-AZ)
- KCVL **WA**, Colville 1/9 1630 up out of the mix from time to time with C&W music and ID, on R-390A with N-S wire. (GH-OR)
- KFBC **WY**, Cheyenne heard 1/15 at 2000 with "KFBC Cheyenne." (BB-AZ)
- 1260 KTRC **NM**, Santa Fe 1/20 0045 Alan Colmes, callers. Good over and sometimes under UnID station running Jim Bohannon Show, on SW-200029 barefoot. (RB-AZ)
- 1310 KFKA **CO**, Greeley 1/20 0155 promo for UNC sports, other local spots, legal ID on the hour, news. Over and under (at times) UnID station running Jim Bohannon Show. (RB-AZ)
- 1320 KFNZ **UT**, Salt Lake City 1/15 1830 Packers-Cowboys, spots and promos, ID by slogan at 1840. (RB-AZ)
- 1350 KTIK **ID**, Nampa 1/14 0030 "The Ticket" IDs, fair with one UnID far under on TMC with Kiwa loop. (GH-OR)
- 1370 KRAC **CA**, Quincy 12/25 0100 fair with ID and ABC news, one UnID far under on TMC with E-W wire. "Red Eye Radio" program. New! (GH-OR)
- 1400 KCYK **AZ**, Yuma heard 1/17 at 0906 with "KCYK." (BB-AZ)
- 1450 KFSD **CA**, Escondido 1/12 1000 legal ID "KFSD Escondido, KSPA Ontario" into Sports Minute, NOS tune "The Look of Love." (MS-CA)
- 1560 KVAN **WA**, Burbank 1/20 0100 "National Traffic Safety Council," "KVAN" and "Tri-Cities" at end of long block of ads in Spanish, promos and PSAs. Dominant and mostly alone with Audio Chain's distinctive heavy overemphasis on Bass left over from Smooth Jazz days. (JP-AB)
- 1570 KYYW **TX**, Abilene heard 1/16 at 2105 with "Newstalk KYYW." (BB-AZ)
- 1580 KFCS **CO**, Colorado Springs 1/19 0120-0145 dominant with some signs of KGAL, running program titled "Great Music of the Church" with mostly light classical orchestral but at least one female choral piece; only break at 0139 with long piece on the use of Biblical quotes in LBJ inauguration and request for donations at station's 800 number; 0255-0306 all alone out of paid religious program into muffled call letters and "Colorado Springs" at 0258 then local spots and promos before "USA Radio News" 0300-0305 then call letter ID. (JP-AB)
- 1670 KQMS **CA**, Redding 1/11 0600 fair with talk show and ID at ToH, on TMC with N-S wire. (GH-OR)

**UnID**

- 920 UnID 1/16 0110 suddenly over KVEL with old time radio rebroadcast of comedy. (RB-AZ)

Thank you to all our WDXR reporters this week! – Nancy 1/20 1900



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

**RIDING GAIN**

- [EB-MO] **Eric Bueneman**, Hazelwood MO [NUIHEric@aol.com](mailto:NUIHEric@aol.com)  
GE Superadio III

**DOWN THE DIAL**

- 900 CKBI **SK**, Prince Albert. 1/13 fair to poor signal, mixing with CHML. 0420 noted with Country format, weather forecast and mention of "for more information, CKBI-dot-com." [EB-MO]
- 970 KNEA **AR**, Jonesboro. 1/17 fair signal over WGTK, WMAY. 0500 noted with "KNEA Jonesboro, Northeast Arkansas' sports leader" legal ID. [EB-MO]
- 1190 KQQZ **IL**, Fairview Heights. 1/13 very strong signal over WOWO. 0357 noted with national spots, "Hot talk 11-90 the Patriot, KQQZ Fairview Heights, Saint Louis" legal ID into Westwood One news. IL #125, 1190 #20. [EB-MO]

**FLASHBACK**

January 19 1991 issue of "DX Monitor" ... **Randy Stewart** of Springfield MO logged KATL 770 for state number 36 ... **Mike Sanburn** of Bellflower CA reviewed the past year mentioning new loggings in each of the months ... **Rick Evans** of Milwaukee WI logged KRNT 1350 and CBR 690 to start 1991.

**OPEN MIKE**

Thanks to Eric we have a column this week. This column was typed 1-20-17. 73, John



**EASTERN DX ROUNDUP** – Eric Bueneman (NØUIH) – 631 Coachway Lane – Hazelwood MO 63042-1347  
E-mail: n0uiheric@gmail.com  
DEADLINES: Thursday 2000 EL

**TUNING THE DIALS THIS ISSUE:**

- (KK-VA) **Kraig Krist** (KG4LAC), Manassas VA  
Winradio G33DDC software-defined receiver, Wellbrook ALA1530S+ Imperium loop
- (PS-ON) **Paul Snider**, Welland ON, Canada  
ICOM IC-R75, Pixel RF Pro-1B loop, MFJ-1020C tuner
- (RW-MD) **Robert Wien** (KG6RJW/3), Laurel MD  
Ford car radio, installed in a Ford Fusion

**ACROSS THE DIAL**

- 540 CBK **SK**, Regina – 1/15 0039 noted with a selection by Galaxy, story on visiting the United States in the 1980s, into a segment of songs in French, including “La Mule” by Malicorne, “This is CBC Radio One 94.1 Saskatoon” (CBK-1) ID at 0059, promo for “Working Moms” on CBC-TV, followed by CBC News and weather for Saskatchewan. A fair to very poor signal was noted in a station mix. (PS-ON)
- 910 CKDQ **AB**, Drumheller – 1/15 0128 noted with a Country format featuring songs by John Michael Montgomery and Drew Gregor, “Boys and Girls Listen to CFCW, Alberta’s Country Legend” //CFCW 840. A poor to very poor signal was noted in a mix of station, confirmed by CFCW 840’s Tune-In Web stream. (PS-ON)
- 940 KPSZ **IA**, Des Moines – 1/14 0029 tried to get an ID on this station earlier in the evening when they were playing Christian music (Contemporary Christian – eb). I finally heard a “Praise 940” ID at 0030, followed by Christian talk. A very poor signal was noted, mostly under CFNV, mixing with an unidentified talk station (WMAc?) (PS-ON)
- 950 WXLW **IN**, Indianapolis -1/17 2005 noted with local ads mentioning Waverly and Area Code 317, “Freedom 95” ID into *Savage Nation*, more ads including Texas Super Food and Proactiv, promo for the Freedom 95 app at 2031. A fair at times to very poor signal was noted, mixing with WWJ and other stations. (PS-ON) (“Freedom 95” is also used by WFDM-FM 95.9 Franklin IN – eb)
- 980 WAAV **NC**, Leland – 1/13 0556 noted with “WAAV, the Wave” ID followed by a look at the top grossing current movies. The signal was noted mixing with WTEM and unidentified stations with Spanish language programming, vocal music, Oldies and Country formats. (KK-VA)
- 1350 WOAM **IL**, Peoria – 1/14 1934 noted with an Adult Standards format featuring “Honeycomb” by Jimmie Rodgers, “WOAM” ID at 1940 into more Adult Standards. A poor to very poor signal was noted under what I thought was the usual WARF or WOYK, but turned out to be KRNT. (PS-ON) (Veteran DXers may remember this as WEEK and later WXCL – eb)
- KRNT **IA**, Des Moines – 1/14 1934 noted with a sports talk format; I thought I was listening to the usual WARF or WOYK over WOAM, but heard a mention of ESPN, into a cluster of Iowa ads, including an insurance agency ad with mention of Area Code 515. I caught a “KRNT” ID at 1947. A fair to poor signal was noted over WOAM. (PS-ON)
- 1380 WLRM **TN**, Millington – 1/16 2244 I’ve been trying to identify this station for quite a few nights, playing Urban Gospel, R&B and other music, including “Come On, Rock Me” by Willie Clayton. “Here’s Something More, 1380 WLRM, Blues, Southern Soul and More” ID into another music set. A very poor signal was noted, mixing with CKPC, WABH, WKDM and other stations. (PS-ON)
- WSYB **VT**, Rutland – 1/12 2259 barely caught “WSYB” in a legal ID info Fox News Radio, followed by *The Jim Bohannon Show*. A poor to very poor signal was noted, mixing with WABH, WKDM and an unidentified Spanish language station. (PS-ON) (The unidentified Spanish station could be WHEW Franklin TN, which has been on after sunset a lot lately; I even hear this at night with local KXFN nulled – eb)
- 1530 WLCO **MI**, Lapeer – 1/14 1727 noted with a Country format, “Real Country” slogan at 1728, followed by more music before going off abruptly at 1730. A poor signal was noted under WCKY. (PS-ON)
- 1550 WIGN **TN**, Bristol – 1/18 0705 noted with several local ads and a nice ID after the top of the hour, mentioning Bluegrass-dot-com. The station’s format is now Bluegrass music. A good to very good signal was noted, mixing with unidentified stations with the Family Focus Christian talk show and French language programming. (RW-MD) (The French-speaking station is CBEF Windsor ON – eb)
- 1570 WMVX **MA**, Methuen (Beverly) – 1/17 1800 noted with announcements in Portuguese, a nice “WMVX” ID in English. This one was totally atop the frequency; some really good DX on 1570 out here on the East Coast! (RW-MD)
- WNCA **NC**, Siler City – 1/16 1745 noted with several local spots during a Swap and Shop program. A very good signal was noted atop the frequency; a solid signal for 30 minutes without fading! (RW-MD)

**EDITOR’S NOTES**

Thanks to Kraig, Paul and Bob for their reports this week! 73 and good DX from NØUIH



**DX WORLDWIDE – WEST** – Temp: Phil Bytheway – 9705 Mary Ave NW – Seattle WA 98117-2334  
E-mail: phil\_tekno@yahoo.com  
all times UTC

Mondays 1201 PM PLT. All times UTC/GMT. We are looking for a new editor for this column, contact me if interested [phil\\_tekno@yahoo.com](mailto:phil_tekno@yahoo.com).

**TRANS-PACIFIC DX ROUNDUP**

- 594 **JAPAN** JOAK, Tokyo, NHK1. Was best at 1359 1/22 with traces of talk, then time pips at 1400. (NP-AB)
- 693 **JAPAN** JOAB, Tokyo, NHK2. Time pips at 1400 1/22, but that was it for audio. (NP-AB)
- 747 **JAPAN** JOIB, Sapporo, NHK2. Fair with talk by man and woman at 1258 1/16, but wasn’t up to audio later, when other stations were better. (NP-AB)  
+Talk by woman at 1458 1/22. (NP-AB)
- 774 **JAPAN** JOUB, Akita, NHK2. Woman and man talking during English lesson at 1429 1/16. (NP-AB)  
+Talk by woman at 1458 1/22, //747. (NP-AB)
- 828 **JAPAN** JOBB, Osaka, NHK2. Traces of talk at 1435 1/16, //774. (NP-AB)  
+This one was also audible at 1400 and 1500 1/22, but was best at 1300 with man and woman talking prior to time pips at the hour. (NP-AB)
- 972 **REP KOREA** HLC A, Dangjin. A few snippets of audio around 1303 1/16, but nothing nearer to sunrise. (NP-AB)  
+A weak carrier signal was heard here between 1256 and 1335 1/21. (RA-OK)
- 1098 **MARSHAL ISLANDS** V7AB, Majuro. Listening to a recording of the signal made on 1/14, I was able to hear weak Marshallese talk under the ever present WTAM at 0716. It is the only new transoceanic catch since 2BL and 3LO in early autumn. I really thought I’d have more success this season, but the sun continues to block TP signals from reaching here. There hasn’t been a word from the often heard JOUB since 12/7/16, even longer for other NHK stations. (RA-OK)  
+t A weak carrier heard from 0621 1/17 (Majuro sunset at 0638); barely audible man talking at 0703-0704. (RA-OK)
- 1386 **JAPAN** NHK2 synchros. Time pips heard at 1500 1/22, but that was it. (NP-AB)
- 1566 **REP KOREA** HLAZ, Jeju, FEBC. Poor to fair, with man and woman talking in Japanese at 1422 1/16. Rose to a good level by 1435. (NP-AB)  
+With traces of a signal at 1326 1/17; barely audible from 1334 until close-down at 1344:30 (LSR at 1340). I was able to recognize Japanese language talk briefly. (RA-OK)  
+Best reception in some time. 1415-1445 1/17, poor/weak. (SR-AZ)  
+Like Steve I also had some reception this morning (1/17), with semi-local 1560-KZIZ keeping its new IBOC silent. Both 1566-HLAZ and 1593-CNR1 reached fair peaks around 1530 here, with some threshold audio on 1503 and 1575 around the same time. Overall, Asian conditions seem to be finally coming out of the clunker mode. (GDB-WA)  
+t There were signs of a signal from 1327 until about 1344 1/20 (LSR @ 1338). (RA-OK)  
+Heard with weak audio at 1416 1/20. (BB-AZ)  
+t Feeble carrier at 1521 1/21, gone by 1531. No audio. I suppose something is better than nothing. (CB-CO)
- 1593 **UnID**. Traces of man talking and some music with a Chinese sound to it around 1423 1/16. (NP-AB)



## ODDS AND ENDS (via IRCA eGroup)

1/19. NHK gives local IDs between programs near the top of the hour (often 5 minutes after the TOH) and gives them especially at sign-off in the case of NHK2. At the end of programming at 12:40 local time, they give the TOH ID followed by the national anthem and music box.

I believe there are two instances of TOH IDs shown in my radio project. NHK has perfectly synched stations, unlike others in the region, and you can hear multiple TOH IDs overlapping on some frequencies when they do ID.

Chris Kadlec, Seoul AM Radio Listening Guide, <http://www.beaglebass.com/dx/seoul/>

## THANKS TO THESE REPORTERS

- BB-AZ **BILL BLOCK**, Prescott Valley AZ (via eGroup)  
Drake R8
- CB-CO **CRAIG BARNES**, Wheat Ridge CO (via eGroup)  
Drake R8A indoor spiral 1m loop
- GDB-WA **GARY DeBOCK**, Puyallup WA (via eGroup)  
7.5" loopstick C.Crane Skywave + 15" FSL antenna, Stand-alone 3" FSL Tecsun PL-380
- NP-AB **NIGEL PIMBLETT**, Dunmore AB (via eGroup)  
Perseus SDR with a Wellbrook Phased Array
- 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.
- SR-AZ **STEVE RATZLAFF**, near Sahuarita AZ (via eGroup)  
R75; E/W longwire



**TROPICAL BAND DX (1710-5100 kHz) – Brandon Jordan – PO Box 338 – Rossville TN 38066**  
E-mail: [bdjorda@gmail.com](mailto:bdjorda@gmail.com)  
all times UTC

**Deadline** – Sunday Midnight Central Time.

- 2859.82H **COSTA RICA** Radio San Carlos, Ciudad Quesada. JAN 18 0049 – JBA carrier on the signature off-frequency of Radio San Carlos, Ciudad Quesada, 2 x 1430v as previously identified. [Hauser-OK]
- 4055 **GUATEMALA** TGAV, Radio Verdad, Chiquimula. JAN 15 0212 – tune-in to dead air, but shortly some really old band music, from a cylinder? TGAV is S9+20 which is doing very well for less than a kilowatt. Apparently opening at 0214 'Antena DX' show con Víctor Gutiérrez, presumably still in reruns, mentions part of his schedule, including Saturday 5 pm somewhere; on Radio Cultural; on Radio Verdad; at 1200 UT or 7 am on 9955. First feature is about NHK World Radio Japón, with clip of its IS and sign-on at 0400 on 6195 when that was via Bonaire. [Hauser-OK]
- 4949.72 **ANGOLA** Radio Nacional, Mulenvos. Jan 16 0406 – good modulation on S9 signal, Portuguese time check for 5:06, ID in passing as Rádio Nacional de Angola. [Hauser-OK]

## CONTRIBUTOR

[Hauser-OK] **Glenn Hauser**, Enid OK, USA  
DX-398 with internal antenna only 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

73, Brandon



**DXpeditions – Phil Bytheway – 9705 Mary NW – Seattle WA 98117-2334**  
E-mail: [phil\\_tekno@yahoo.com](mailto:phil_tekno@yahoo.com)

Nice report from Walt this time. Working on LBI 15 report which should be in next week's DXM... pb

**\*DXpedition to Masset BC 5 – 15 January, 2017\***  
Walter Salmaniw

I just returned from another adventure at my cottage on Haida Gwaii near Masset, on the north end of the islands. As you may very well know, it's a spectacular archipelago, about 100 km off shore from the north coast of British Columbia, and about 75 km south of the Alaskan panhandle. It's rural, of course, and exceptionally quiet electrically. We do have power, which causes some noise, especially on LW. No internet, yet, however. Closest neighbours are about 100 m on one side and a bit more on the other side, but these can be seasonal, or very lightly used. No plasma TVs and the like! On this time around, I was able to do some serious DXing, and have many gigabytes of Perseus SDR wav files to prove it. I have my set up down pat, and I can be up and running in a very short period of time. The first antenna to go up is a general reference antenna, the ALA 100. I have it as a large diameter loop near the ocean (we have about 4 acres on the water facing north, looking at Alaska across Dixon Entrance). The loop is in the trees, facing NE/SW and is about 25' high and about 20' across, and is double looped. My second antenna up is always the BOG=Beverage on Ground, about 750' aimed to the W/NW to Asia, and a good compromise to Australia. This antenna is always my favourite and consistently is the best performer, and the last to stop yielding signals in the morning. The third antenna is the DKAZ, which I constructed a couple of years ago. It's directed to the SW. I'd say it was 75% as good as my BOG, with an advantage of being very directional. Many times I'd have different stations on the same frequency heard on different wires. The DKAZ was a good performer when we had some DU activity, although it doesn't quite have the "oomph" compared to the BOG. Finally, I have a permanent, about 450' (to 500' if I extend into the water) mini-Beverage, aimed due north. With so little activity over the pole, it wasn't used too often, although occasionally it was useful. Note that both the BOG and Beverage were amplified using a DX Engineering RPA-1 HF-Preamplifier located at the feedline access at the antenna wire base. All antennae were fed to the shack (located in my garage, in a small insulated and heated room) via coax cabling. The BOG was fed into a mil surplus 16 output multicoupler (with no resultant losses), while the others were fed via passive Mini-Circuit 2:1 and 4:1 splitters.

I listened primarily between 1355 UTC and as long as signals permitted: Usually around 1800 or later. Not much during the day, due to family commitments. In the evening, I attempted to check on conditions, and also edited mp3 files of captures and unknowns. By 0700 UTC, I'd check for TP activity, either Pacific Islands (1017 and 1098) or via Japan, especially Hokkaido. I'd then capture some sleep before being "gently awoken" by my alarm clock to do things again. How did things turn out? Well, conditions were highly variable. Nothing from Europe, unfortunately, this time around. To the Pacific, there were some days that were relatively poor, and others that were absolutely excellent, whether to China, or to Japan, or to Korea. We had a little DU activity, but not much at all.

I had access to 3 receivers: 2 Perseus SDRs, with one dedicated to the MESTOR timer program. MESTOR worked flawlessly. I had a routine of timed TOH and BOH recordings overnight, on most nights. In person, I DXed live with the other Perseus. If conditions warranted, I was able to, at the press of a button, activate MESTOR to record the entire MW spectrum ongoing, until I cancelled it. Very handy!!! Finally, I have an AOR 7030+ which served for parallel frequency searches, and often just to park on an interesting frequency to monitor or tape. For instance, I really enjoyed the armchair copy of RRI Palangkaraya on 3325 during local mornings, and the NVK Radio Sakha from Yakutsk, Russia on 7345 (and 7295) in our local evenings. 2 laptops were used with the main Dell laptop (W7) running both Perseus, and a 2nd screen, while the older Dell XP was hooked up to the audio output of the AOR for sound recordings, as well as DX Atlas on its 2nd screen. All in all, pretty high tech!

Each time I travel to Masset, the joy of DXing returns immediately. It's like rolling back the clock to the times of little or no RF noise. Many times I'd be enjoying armchair copy, only to realize that the signal was only S7 or S9. In the city, that's a so-so signal, especially if the noise floor is at S5! One day, I'd like to get internet service (not possible at the moment). Wouldn't a remote Perseus SDR be just grand! So, onto my loggings. Please, if you have any comments or corrections to be made, please do so!

- 610 **CANADA** CKRW, Whitehorse YT, 1 kW. Jan 13 1407 – I have to thank Paul Walker in Galena AK for reminding me of the one remaining MW station in Whitehorse. Heard finally with local and YT weather. Mentions of 'the Territory'. Faded after about a minute back to the usual CHNL Kamloops (and a Spanish speaker probably KRTA Medford OR). Listened again at 1439 and gave a CKRW ID, and into sports. Good level, all alone virtually at that time. 'On the Rush' at 1442, and Ad for Yukon Yamaha, 'toys for all seasons, on the Alaska Highway'. One question is where is CKYL Peace River AB? I thought they should be a relatively easy catch, but so far unheard on this trip.
- +Jan 14 1604 – Quite the difference from yesterday AM, when 610 yielded a number of stations, and seemed to change every minute. This morning, tuned in at the end of the newscast, and the frequency is owned by Whitehorse! Excellent reception. IDed as, '96.1, The Rush' and into modern vocals. Interesting that AM gets short shrift here. Wonder whether there are any plans to give up on MW, like the CBC did in both Whitehorse and Yellowknife. Great reception for 1 kW. Minimal co-channel interference. After I typed this, just briefly at 1610, CHNL came up to dominate for about 1 minute or less, then faded down again.
- 639 **JAPAN** JOIP, Oita, NHK1, 5 kW.. Jan 10 1718 – Very good reception with American oldies ('Take me by the hand'). No sign of CNR1 which I was expecting to hear. //594. Not bad for such a low power transmitter.
- 680 **USA** KOMW, Omak WA, 5kW. Jan 7 1610 – Oops. Wrong ID. This is fact is KOMW from WA. I had thought it was KBRW from Barrow AK, which we occasionally hear in Masset. Good reception, besides splatter from a very strong Alaskan, KDLG Dillingham, on 670. Partyline program, which is a swap shop. The give away, besides WA area code, and 'Go Seahawks', was one fellow who was looking for parts for his big Buick. I didn't think there'd be many of those in Barrow!
- 693 **CHINA** UnID. Jan 13 1600 – Chinese language speaker, at good level with FM frequencies being announced. I wonder about Shaanxi Weixing guangbo. 200 kW listed in Xianyang. I'll need to double check.
- 711 **REP KOREA** HLKA, Seoul, KBS1, 500 kW. Jan 9 1454 – I'm feeling nostalgic this morning with both NHK1 and KBS1 playing American oldies, such as Moon River earlier, etc. Asia appears to be wide open this morning!
- 729 **VIETNAM** Donh Hoi, Dong Hoi, Da Tieng noi Viet Nam (VoV 2), 200 kW. Jan 13 1559 – Pretty certain this is who I heard around 1550 UTC. In the clear and fairly strong with a language I strongly suspect is Vietnamese. Gradually faded and co-channels JOCK (Nagoya 50 kW with NHK1 programming) and less commonly Pyongyang Bangsong in North Korea (Samo with 50 kW and //3250) was also heard. But according to PAL, they state that N Korea is no longer on this frequency. Unfortunately SW // was off the air from 1500 on 5925. Rechecking around 1605, there's an English lesson here. That might help with the ID. Program seemed to have finished at 1614 leaving dead air. Yes, that has to be them, as I note in PAL that, 'English lessons have been noted at 1600 UTC'. Should be quite certain, then!
- 738 **REP KOREA** HLLG, Gyeongsan, KBS1, 100 kW. Jan 10 1712 – Very good reception, with minor co-channel interference. //711 and many other channels on this very good morning to Korea.
- 774 **CHINA** UnID. Jan 13 1732 – Time pips at 1730, then announcing FM frequencies, but faded into co-channel music. Pretty clearly heard, so will post for expert opinion.
- 819 **DPR KOREA** Pyongyang, KCBS, 500 kW. Jan 7 1551 – Actually, for a change, very enjoyable EZL music by a female vocalist. Confirmed //2850. Very good level, besides mild splatter from 820. No sign of any jamming. Also measures on exact frequency.
- +(Joson Jung-ang Pangsong), Jan 10 1704 – Superb reception with nice clean audio and a rather enjoyable Korean chorus. Minor splatter from 820. Korea (and China) both came in very well this morning.
- 830 **HAWAII** KHVH, Honolulu, 10 kW. Jan 12 1623 – Good reception with traffic issues in Honolulu. TC earlier for 6:21 AM. Faded replaced mostly with KSDP, Sand Point AK. Another ID at 1625. Newsradio KHVH.
- 850 **ALASKA** KICY, Nome, 50 kW. Jan 7 1134 – I recorded 850 overnight to see what I could here. Using a NW BOG. Quite an amazing assortment. What really amazed me was how the ionosphere would change propagation. At this time, KICY was coming in very well in Russian, giving an email address and postal address in St Petersburg, Russia. Before, and within about a minute, it swung over to KHHO, Tacoma WA... almost 180 degree difference with overnight Fox Sports Radio feed (FS1). Disappointing that they gave no legal IDs, apart from earlier in the evening. At other times, I also heard KOA from Denver (earlier in the evening). Overall, a fascinating exercise!
- +Jan 7 1650 – Very good reception with inspirational music, then ID after the TOH. A good Alaskan morning. 'Going to the Rock' at 1703.
- 890 **ALASKA** KBBI, Homer, 10kW. Jan 7 1458 – Dead air at S9+40. Co-channel CJDC Dawson Creek audible with C&W music and ID just before TOH. Crash start into NPRP's Weekend Edition. No local IDs for KBBI.
- 910 **CANADA** CKDQ, Drumheller AB, 50 kW. Jan 7 1704 – Excellent reception with a Ukrainian Christmas carol (what caught my attention!), and Christmas wishes to those following the Julian calendar, and best wishes to a particular lady by the DJ, and an attempt to give a Christmas greeting in Ukrainian. Not very successful at that! Then back to C&W music.
- 940 **HAWAII** KKNE, Waipahu, 10kW. Jan 11 1403 – Finally, a decent signal from Hawaii and my all-time favourite Hawaiian, with Hawaiian music. A pleasant change from the abrasive talk radio (ESPN on KFIG Fresno). Heard only on the ALA 100 aimed NE/SW, and surprisingly not on the SW aimed DKAZ. At 1453, however, it's the DKAZ which is pulling in KKNE with ID, and 'All Hawaiian, all of the time'. Good reception, but faded within a minute or two and now co-channel by the sports station. Then again KKNE totally dominates by 1457. I love the ionosphere!!! KFIG returned for the TOH and mentioned a legal ID, given as KFIG Fresno CA. Also strong when they fade in.
- +Jan 12 1611 – This is the best opening to Hawaii so far on my trip by far. Perhaps KKTN has not yet gone to day power on 930, but it's not a big issue. Minimal splatter. Very strong. I've noted a number of other Hawaiians during a quick band sweep, as well.
- 972 **CHINA** UnID. Jan 8 1720 – A Chinese speaker totally dominating the channel. HLCA was not even audible for a time, before coming back to about equal strength. PAL lists 3 stations, but 1 is only 1 kW, the other (Harbin) is supposed to be off at 1500, while the 3rd 100 kW station has no programming details (Henan RGD, Zhengzhou). Interesting!
- VIETNAM** (t) Quang Ngai, Dai Tieng noi Viet Nam, 10 kW. Jan 8 1651 – A highly tentative log. Language sounds very much Vietnamese to me. Co-channel to usually dominate HLCA, but sometimes rivaling in strength. Another possibility is Indonesia. I see a 50 kW RRI program 1 in Surakarta listed. I'm now leaning to this as the most likely. I'll be interested in hearing the TOH! Also suffering from major splatter from 980 CKNW presumably just before the TOH (as usual!!!). Whomever was on 972 faded down mostly by 1700. Darn!
- 1017 **TONGA** A2Z, Nuku'alofa. 10 kW, Tongan Broadcasting Commission. Jan 10 0647 – PAL lists the name as, 'Call of the Friendly Islands, Radio 1'. Wonder whether they still use this wonderful name? It's needed in today's world. In any case very nice reception at tune in. A little undermodulated compared to 1098 Majuro, but carrier seems every bit as strong!
- +Jan 13 0647 – When tuned in at 0643, almost armchair copy. What a treat, but short lived. Fades to almost nothing, and then improves again to decent levels. Modulation seemed better tonight. Superior reception to 1098 so far. Heard best by far on the SW DKAZ.
- 1035 **CHINA** multiple transmitter sites. CNR1. Jan 9 1615 – I count 47 CNR1 sites on my PAL. Clearly they don't sync very well, as I'm hearing a growl, and clearly out-of-sync transmitters. Also a 1 kHz tone. Not sure where that comes from. Otherwise good reception. Low powers listed. Mostly 10 kW senders, although several others at 1, 25 and 50 kW.
- 1098 **MARSHALL ISLANDS** V7AB, Majuro, 25 kW. Jan 10 0541 – Surprisingly good reception, besides 1100 splatter, presumably from KFAQ San Francisco (which itself is marred by IBOC splatter from 1090 kHz. Syncs easily with my Auto Sync on the Perseus making listening enjoyable. EZL music when checked again at 0553. Noticed that Tonga on 1017 was also coming in pretty well. At 0600 seemed to be carrying Radio Australia news. Seems like stations are starting to fade in 1188 JOKP is coming in really well. Again besides the splatter, perfectly listenable. Located in Hokkaido, so stands to reason it would be first to fade in. 1098 is very nice at 0620 with islands music. Love it! Booming in at 0643! Armchair. I'm picturing Colin in Hawaii enjoying them right now on his lanai!
- +Jan 12 0712 – Great reception except for terrible splatter from a very powerful IBOC station on 1090 (S9+40 signal). Take them away, and it would be near armchair copy. Did fade to nothing for about 30 seconds, then back again. 'Lean on me' at 0715.
- +Jan 13 0701 – ID for BBCWS news. Often at very good levels besides minor splatter. BBC news ID at 0706, then back to local programming in presumed Marshallese. Lower modulation, so I can't make out what is being said. Music is better modulated, and back to islands type music at 0707:15. At 0713 recheck, VERY strong S9 + 10 dominating the channel, and splatter is not too bad. Still that lovely South Seas music! Continues to improve with S9 + 20 signal at times at 0737. Very nice!!! I recorded overnight. At 0800, I'm pretty sure that the news is from ABC for the first minute, and then over to the BBC? Overnight, the signals were best until about 0900, and then began to fade, but not completely. At 1117 sounded like a hymn, or possible anthem? Could not hear any further programming after 1118, so might have left the air (to dead air) from that point.
- PHILIPPINES** DXCL, Cagayan de Oro, 5 kW, Sonshine Radio. Jan 9 1624 – I'm suspecting Sonshine Radio here. Took me a while to figure out, but there's a huge carrier, and several co-channels, all fairly weak. Of course, it must be the OC for V7AB. So a tentative logging only. Style is Filipino. Multiple stations, however, making it difficult to figure things out. I see carriers on 1098.001 (the main OC), 1097.987, 1097.992, 1097.995, and 1097.997 in addition.

- 1116 **AUSTRALIA** 4BC, Brisbane, 17/6.3 kW. Jan 8 1730 – Fair reception at this late hour with talk format. Still best on my NW wire over the SW DKAZ. Conditions have only now just started to fade after a very nice dawn enhancement!
- 1170 **ALASKA** KJNP, North Pole. Jan 7 0623 – One of my favourite local Alaskan stations, with 'moccasin telegraph' For example, 'your favourite wife' to her trapper husband, etc. Great reception at times, but occasionally fading down to be replaced by lower 48 station(s).
- REP KOREA** HLSR, Gimje, 500 kW, KBS, Hamminjok Bangsong. Jan 9 1637 – Very strong, and no sign of KJNP initially. Parallel to heavily jammed 6015 SW. Korean assumed.
- 1179 **JAPAN** JOOR, Osaka, 50 kW, MBS, Mainichi Hos. Jan 8 1708 – I'm quite certain this is Osaka just booming in with fill music (Dr Zhivago at 1709:45). PAL states they are off the air on Sundays from 1700 to 1948). Perhaps this is what's meant by that! A major dawn enhancement this morning. By far the strongest I've heard since my arrival on the 5th. Co-channels are weakly heard, likely China (Hubei RGD).
- 1188 **UnID**. Jan 14 1634 – An interesting channel. Not Chinese so who? Checked PAL for possibilities. Sounding very South Asian, so I wonder about CRI from Xuanwei listed in Hindi with 300 kW from Xuanwei. I could hope for India direct from Mumbai with 50 kW. Note the SW frequency is not correct! PAL lists //10330. Not used for a long time. Definite Indian music noted at 1642 co-channel with more usual JOKP from Kitami, Hokkaido, but the Hindi sounding station is dominating! Unfortunately, by 1700 it was all JOKP, with only a weak co-channel, so nothing noted at the TOH. Someone faded up by 1701, but does not sound Hindi. Of course, CRI Hindi should have ended at 1657. I didn't think the format fitted CRI, though. Addendum: I will seek some guidance here. On listening to the clip again, I no longer think this is 'Hindi sounding', but rather more a play or opera (sleep deprivation this morning!!), so I'm suspecting that it's only FEBC in Seoul (HLKX).
- 1206 **CHINA** Yanji Jilin, 200 kW, Yanbian RGD. Jan 13 0659 – Almost good reception at 0656 tune-in on measured 1205.963. Frequency measures properly for Yanbian RGD, but I'm not so sure of the language and it's still daylight in China. So if not Yanbian, then who? Rechecked at 0709 and yes, it is Asian, so likely Korean.
- 1287 **JAPAN** JOHR, Sapporo, HBC, Hokkaido Hoso Sapporo, 50 kW. Jan 8 1737 – Very strong signal with rock n' roll music. PAL lists them off on Sundays 1730 to 1900, but still on, although went from one song directly into another (Japanese female vocal). Perhaps they mean local Sundays, as I presume it is Monday local in Japan now. A presumed log, as no ID heard.
- 1296 **UnID**. Jan 9 1639 – Wonder who is responsible for a very loud 1 kHz tone. I can hear some weak talk in the background, but ruined by the tone. Something may come up at 1700, I'm thinking. I'm actually hearing the same tones on 1368, 1584, and several other channels. Nope, same tone continues after 1700. Curious. I wonder if it's from NHK1, as it's still quite strong well after 1700, and channels appear to coincide with NHK1 frequencies. Some, like 594, however, had no tone. Hmm. at 1915, I'm seeing 1512 with same tone. No NHK 1 there, just NHK2. The mystery continues.
- 1323 **CHINA** Huadian, Jilin, 600 kW/due south and Shuanghyashan, Heilongjiang 200 kW/NE beam. CRI x 2, Jan 15 1555 – An interesting mix of 2 Chinese speakers. They each fade up and dominate. The Russian speaker is very easily heard and IDed and finished their broadcast at 1555, but then the other CRI, which sounded like they were giving Chinese language lessons, then IDed in an oriental language (not English) with mentions of CRI. The Russian language transmitter is in Shuanghyashan, Heilongjiang with 200 kW/beamed northeast, while the other CRI is from Huadian, Jilin with 600 kW aimed almost due south, in Korean. After 1600, in the clear in Mandarin, I think. Interesting, that the transmitter left the air at 1601:55! Many thanks to Chris Kadlec in Seoul for providing information regarding this frequency. PAL is a little unclear about this. I know that my copy had the Korean CRI broadcast ending at 1400. Incorrect of course! Shuanghyashan is in the north east corner of China, so no wonder CRI Russian is well heard on the east coast. Huadian is also in the same area, closer to Korea, but with the beam to the south, it's little wonder that it's not often heard.
- 1340 **CANADA** CIVH, Vanderhoof BC, 1kW. Jan 8 1714 – 'Valley Country' ID and 'Justin Bieber free zone (!)'. Excellent level. Just faded up over another Canadian station which was talking about tax policies of past Mulroney governments. 3 other BC MW stations listed. Another Valley Country ID at 1717.
- 1386 **JAPAN** 4 x 10 kW NHK2, Jan 7 1441 – Lengthy sign-off at 1440 tune in. Seems Japan has returned to pretty good levels this morning, compared to yesterday. Co-channel, weakly, is audible. Not sure who, yet.
- 1548 **AUSTRALIA** 4QD, Emerald, 50 kW, ABC Central Queensland. Jan 9 1651 – Good reception, but lots of splatter from 1550, especially when it fades. Talk show format. A pretty decent DU morning, as well.  
+Jan 15 1637 – A modest DU opening. Noted a few on the X-band, weakly, and 4QD is coming in reasonably well now with talk show.
- 1566 **CHINA** Longjing, Jilin, 25 kW, Yanbian RGD. Jan 9 1513 – For a while, presumably this station was equal or even over the usual super powerful HLAZ. Measured on 1566.039, while HLAZ was on 1566.002, and another carrier seen on 1565.994. A strong Chinese morning.
- REP KOREA** HLAZ, Jeju, 250 kW, FEBC. Jan 9 1929 – Trumpet IS and into 30 min Korean program. PAL lists TWR. Same trumpet at the end of the program. At 2000, gave call-sign in presumed Korean phonetically, and continued with religious programming. Exceptionally strong this morning! Major fade down by 2030, however. Barely audible by 2100.
- 1575 **JAPAN** Misawa, 600w, AFN. Jan 9 1711 – Nice ID for AFN, and back into music. Significant splatter from lower side. No, it's not 1570, but a HUGE signal from HLAZ on 1566! Local ads at 1715. Gave 2 PSAs for local community agencies, giving phone numbers of 226-4128 and 226-7273. I'm presuming it's Misawa. Very strong at 1720 recheck. Jingle for 'serving America's best' at 1730. 3 carriers noted. The main one, presumably Misawa is on 1575.001, and there are 2 others on 1574.988 and 1575.037. Still audible at 1913 recheck (and 1566 HLAZ still booming in!). At 1815, ad for Misawa auto center. Occasional deep fades, but often returns with surprising strength. At 1900, marred by HLAZ changing beams resulting in a significant splatter and inability for Sync to function properly. Gave up at 1912, with strength still there!
- 1610 **USA** WQEL572, Westport WA. Jan 10 1641 – ID clearly heard, at least the 572 part. Licensed in 3 places under this call in WA, but most likely Westport, Grays Harbor WA. Licensed to WA Dept of Parks and Recreation. Marine weather.
- 1611 **AUSTRALIA** UnID. Jan 7 1648 – Noticed a notch in the secondary display on the Perseus. 3 carriers are present: 1610.897, 1611.000, and 1611.023. None beyond a very subtle muddle of audio. Virtually no DU reception today.
- 1629 **AUSTRALIA** UnID. Jan 6 1459 – A mishmash of carriers here, with weak audio heard. At least 7 carriers noted on 1628.913, 1628.951, 1628.984, 1628.987, 1628.989, 1629.000 (seems to be gone when rechecked at 1517), 1629.027, and 1629.035. One almost sounded like machine generated, so I wonder about the possibility of a Japanese Traffic Information network that's shown in PAL.
- 1650 **USA** WPZQ660, Astoria OR, OR Department of Transportation. Jan 8 1541 – Good reception with frequent mentions of Oregon coast including Astoria with marine weather. By 1545 faded down, and replaced by highway information, which is likely from WA DOT. An interesting 'bycatch'! After 1600, noted a true TIS station sometimes at pretty decent levels, but then faded down with KFOX, Torrance CA in Korean dominating. A fascinating channel. At 1630, I counted 9 carriers, which I'm certain are TIS stations on the west coast. 1649.972, .977, .980, .983, .986, .988, .995, .997 and 1650.010. Whew! The TIS I'm hearing refers to building evacuation, etc. Then, 'You are listening to' ?. May be Coos Bay OR. 'Thanks for listening. You are listening to...'
- USA** WQHK904, Vashon WA. Jan 9 1440 – Once again, coming in well this morning. 'Thanks for listening' 'Remember 1650 is the place to go'. Earlier I heard '904' which corresponds with this TIS, which is located in King County WA. Vashon Park District. My TIS lists 3 transmitters for this callsign, including one on a water tank on Vashon Island. Not sure whether this is the same TIS I heard yesterday or not.
- 1656 **AUSTRALIA** Bundaberg, Queensland, 0.4 kW, 4UCB Vision Network. Jan 9 1521 – I'm thinking this is the station sometimes coming in at fair level. Presumptive, as it does not sound like the Voice of the Australian Chinese, which I've often heard here, nor the Greek or Arabic stations listed. Multiple carriers seen, though on 1656.023, 1656.002, 1655.997 and very weak 1655.994. Sometimes fading up to almost good level.
- AUSTRALIA** Melbourne, 0.4 kW, Rythmos AM. Jan 13 1630 – Quite good reception with ads to 1630 and into Greek music. Presumed it's them, as there are no other stations that would fit. Probably the best heard on this DXpedition. A very good morning.
- 1663.5 **JAPAN** Maritime reports. Jan 13 1634 – Weakly heard until 1635 with Japanese, presumably marine related forecasts. I've heard them before, but always night to pick up these flea powered transmitters. I notice that Osaka is listed at 50 w, but not on at this time. No powers listed for the other possible stations: Nagoya Harbor Radar or Tokyo Martis.
- 1701 **AUSTRALIA** Brisbane, 0.1 kW, Radio Brisvaani. Jan 6 1505 – 3 almost equal carriers noted on 1701.023, 1701.066, and 1701.092, but with Hindi music dominating. Nothing terribly strong on this modest Asiatic/DU mix this morning.

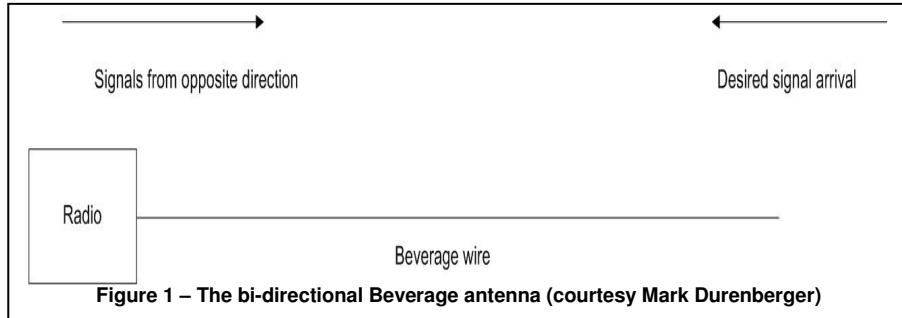




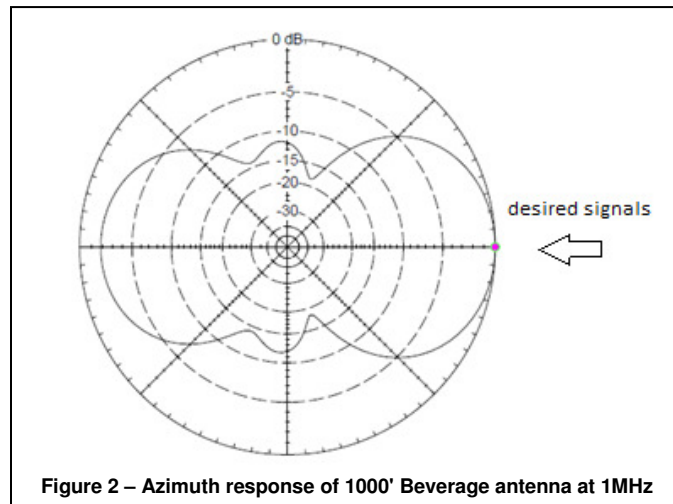


**How a Beverage antenna can discover its inner feed line**  
 a work in progress

The Beverage antenna has been a reliable standby for DXpeditioners for many years. Although amplified directional antennas such as the DKAZ can compete with it, especially when listening on limited real estate, the Beverage antenna remains a simple, inexpensive and forgiving antenna. To be casual about it, just find a piece of land that points in the direction of the desired signals, preferably with interfering signals at right angles to that direction, or from the opposite direction. Then take 1000 feet or more of wire, lay that out in the direction from which the desired signals will arrive, and support it at a few feet height, or even lay it on the ground. The ambitious can get more out of the antenna by terminating it with a resistor (to make it more unidirectional), or matching it to a feed line etc.



However, sometimes one might have the convenience of a warm listening post, but it adjoins a long piece of land that points in the opposite direction to that desired, a house on an ocean shore with land behind it, for example. In a pinch, the Beverage will work pretty well with the receiver placed at either end of the wire, as, when it is unterminated, it is a bidirectional antenna (see Figure 1)



John Bryant described this approach to using the Beverage in his article, "DXing over your shoulder with Beverages".<sup>ii</sup> Obviously, one would not want to terminate the antenna in that case, as signals from the desired direction would be attenuated. But, if one looks carefully at the EZNEC plot for a Beverage antenna in Figure 2, one will notice that the Beverage is not identically sensitive from both ends, even when it is unterminated; there is about a 2dB difference in this instance. In other words, if the target stations are off the back of the antenna, less signal strength would be generated than if they were off the front of the antenna. The reason that a Beverage antenna is bidirectional at all is that signals coming from "over the shoulder" travel down to the far end of the wire and reflect back to the receiver end. The Beverage has been described as a lossy antenna, just less lossy along its heading. Signals from "over the shoulder" will travel twice along the wire, and will suffer more loss than signals that travel only once along it.

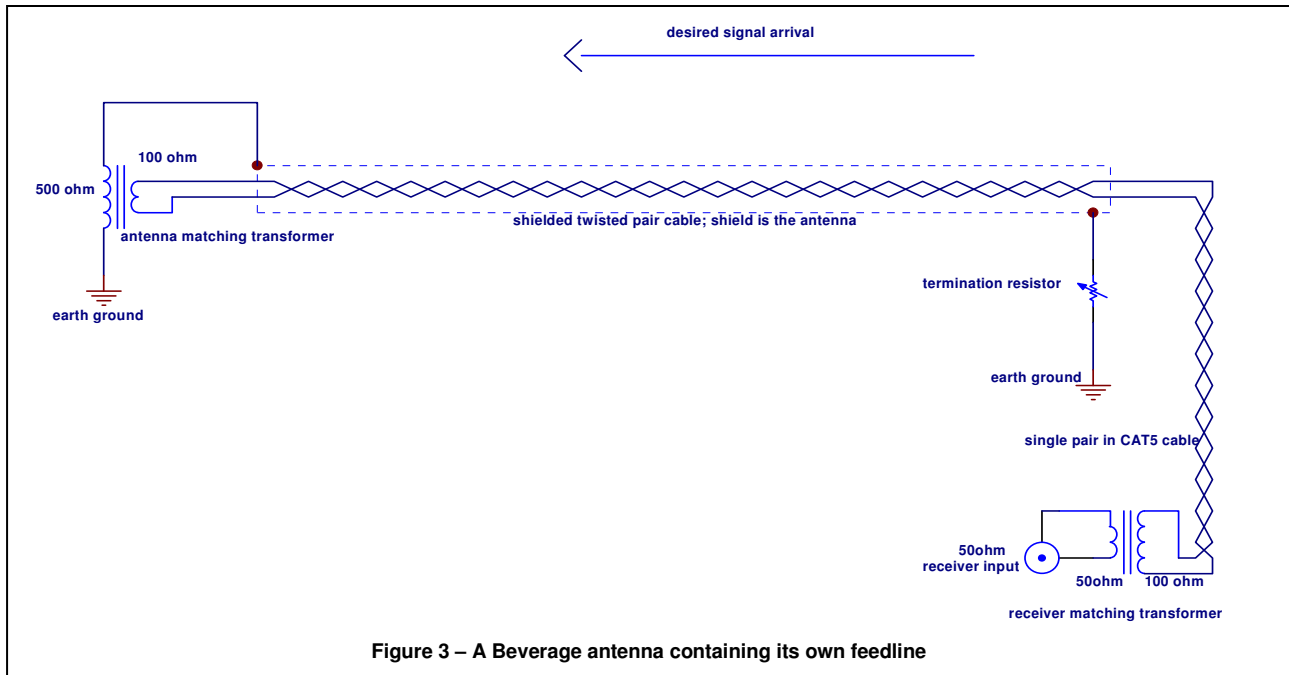
You might say, well, that's only 2dB, but even 2dB can be significant to the DXer who is chasing weak signals in the presence of strong interfering ones. The relative loss "off the back" becomes higher with longer antennas and with higher frequencies, as well as with its distance above the ground. In fact, John Bryant found greater than 2dB difference between front and back of his Beverages in some cases, and so have I. For a "Beverage on the Ground" (BOG) the loss can be considerably greater "off the back". Neil Kazaross found that BOGs had about 5-10dB difference in response between front and back of the antenna.<sup>iii</sup>

So, what to do if you can only DX "over the shoulder", other than obey the laws of physics, and accept the consequences? Mark Durenberger and I recently came up with separate proposals to allow the Beverage antenna to point in the "right" direction, even if it is physically pointing in the "wrong" direction; in other words, the receiver is at the 'wrong end of the wire'.

The idea is to use a 'multi-conductor' cable that functions both as the antenna *and* as a transmission line that returns the desired signal to the desired end of the wire. It's based on the principle that a properly-constructed twisted pair feed line is, in theory, both immune to outside electrical interference *and* to radiating any of the signal that is traveling down it. If that is the case, can a Beverage wire co-exist in the same cable with a well-balanced twisted-pair?

Mark's proposal uses the ubiquitous CAT5 cable made up of four well-balanced twisted pairs. His work, to be investigated on an upcoming DXpedition, seeks to use one of the wire pairs as the antenna and a second pair as a return transmission line. Details of this draft proposal along with further experiments are available at <http://www.durenberger.com/documents/CAT5BOG1216.pdf> and he seeks input and comments on its practicality.

Figure 3 shows my own idea, which uses shielded twisted pair (let's call it STP), not quite so ubiquitous, but still widely available. Essentially, the shield of the STP is the Beverage antenna. At the far end of that antenna from the receiver is the usual matching transformer from the nominally 500 ohm impedance of the Beverage to the impedance of the feed line. In this case, because the feed line will be a twisted pair, it will have an approximate impedance of 100 ohms, so this will be a 500:100 ohm transformer. The primary of the transformer, 500 ohms, is connected between the Beverage and a ground rod or rods, while the secondary is connected to the twisted pair that is inside the shield. Therefore, the signal received at the far end of this Beverage will be fed back inside the Beverage antenna to the receiver at the other end of the Beverage. At the receiver end of the STP, one can add an adjustable termination resistor to ground in order to provide attenuation to signals that are coming from the opposite end of the antenna. As most receivers do not have a 100 ohm balanced input, a further matching transformer is needed to convert the 100 ohms of the twisted pair to the more conventional 50 ohms of a coaxial receiver input. If the receiver is still some distance away from the appropriate end of the STP, one of the pairs in a CAT5 cable can be used to complete the circuit between the antenna feed line and the receiver as shown in Figure 3.

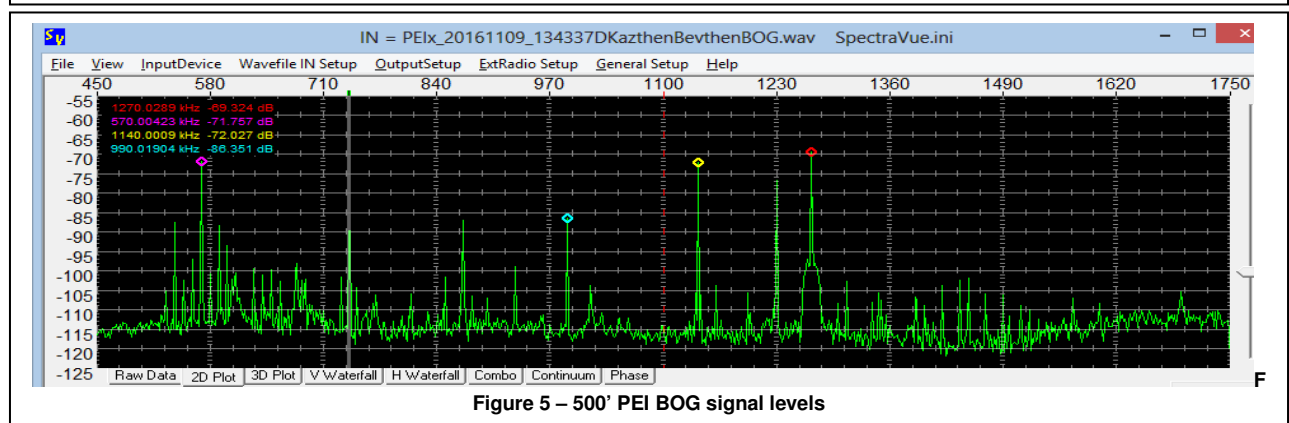
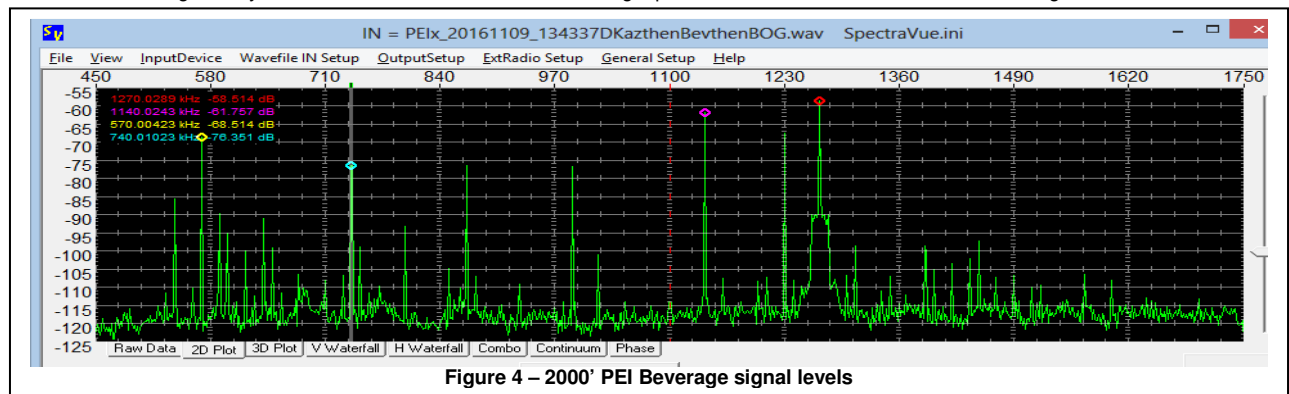


But, does this bright idea work? A recent DXpedition to Prince Edward Island (<http://www.bamlog.com/2016pedx.htm>) allowed a first look. Only 500' of STP was available, which was too short for a regular Beverage antenna that would cover all MW, so a BOG was attempted instead. Because a BOG's impedance is closer to 200 ohms, a ferrite toroidal core was wound to provide a 225:100 ohm match (12 and 8 turns on an FT50-75 ferrite core), rather than a 500:100 ohm match. Otherwise, the system was the same as shown in Figure 3, the internal twisted pair of the STP at the termination end of the antenna is connected to one of the twisted pairs in the CAT5 leading to the receiver. Another pair in that CAT5 was used to convey control current to a Vactrol which was used as a termination resistance, though the Vactrol is (not indicated in Figure 3). The remaining two pairs of the CAT5 were left unterminated in any way; at this point, it's not known whether that was a good idea or not. At the receiver, the feed line twisted pair was transformed to 50 ohms using another FT50-75 core with the same 12:8 turns ratio on.

This BOG was aimed at 60 degrees. Conveniently, Bruce Conti had laid out an unterminated 2000' Beverage at 80 degrees, with the last 1000' lying on a fallow field, and I had also put up a DKAZ at 30 degrees, so we had rough comparisons of directional antennas available. So, how did the BOG stand up to the other two antennas? Not too well. Using northerly directional antennas in the daytime in PEI is pretty much a guarantee of weak signals but even so, the signals heard by the BOG were comparatively anemic and suffered from local noise.

There are several MW broadcasters on the air in northern Nova Scotia and in Newfoundland that were roughly in the direction of our northeasterly looking antennas. The stations on 570, 870, 1140 and 1270 kHz were reasonably strong in the daytime, even on the BOG, despite being 250-450km away, and at night, the TAs roared in quite nicely. If that antenna was all we had in PEI, we might have been happy enough to DX on it, but it was being compared to some heavy hitters in the antenna world. In addition, any daytime stations off the back end of the BOG were already quite weak, and it was not possible to find any setting of the Vactrol termination (which could go as low as 37 ohms) that would provide additional attenuation, so eventually the target end of the BOG was terminated directly to the ground rod.

See figures 4 and 5 for a daytime comparison between the Beverage and the BOG, using the RFSpace NetSDR. Note that the signals from 570, 870, 1140 and 1270 on the BOG were generally down about 12dB down from the Beverage, plus the BOG's noise level was about 5dB higher. You could hear the difference.





However, what was important for this experiment was to determine whether this relatively low level of performance from the BOG was due to its "co-axial" internal feed line, or whether it was due to lack of capability of the BOG itself. In other words, if the BOG was reconfigured with its feed line at the "correct" end, ie opposite from the target direction, would it perform any better?

Therefore the BOG was fed from the southwest end, and signal levels across the band were compared with signal levels recorded from the northeast end using the internal twisted pair as a feed line. The CAT5 feed line to the receiver was the same in both instances. See Figure 6 for a schematic of the feed from the southwest end of the BOG.

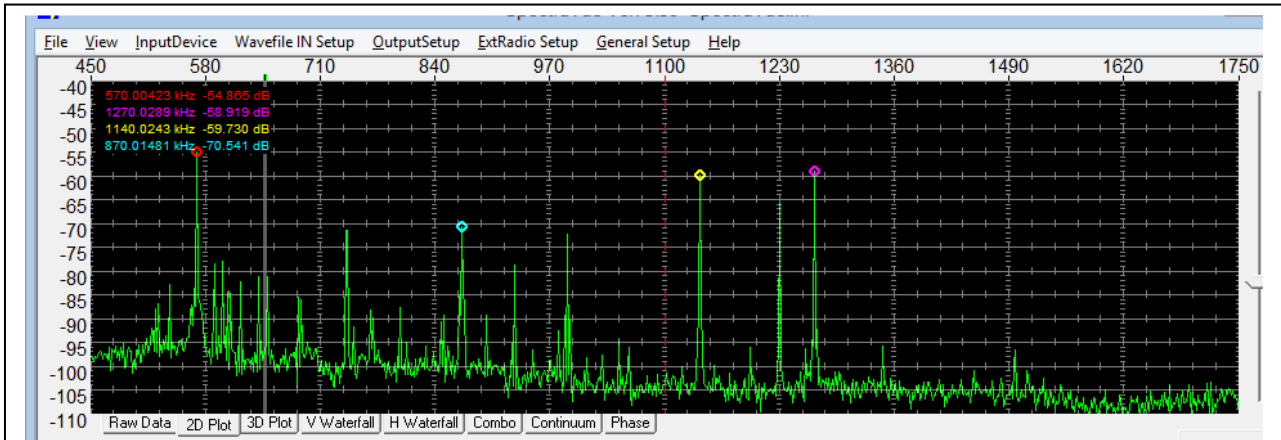


Figure 6 – BOG using northeast feed

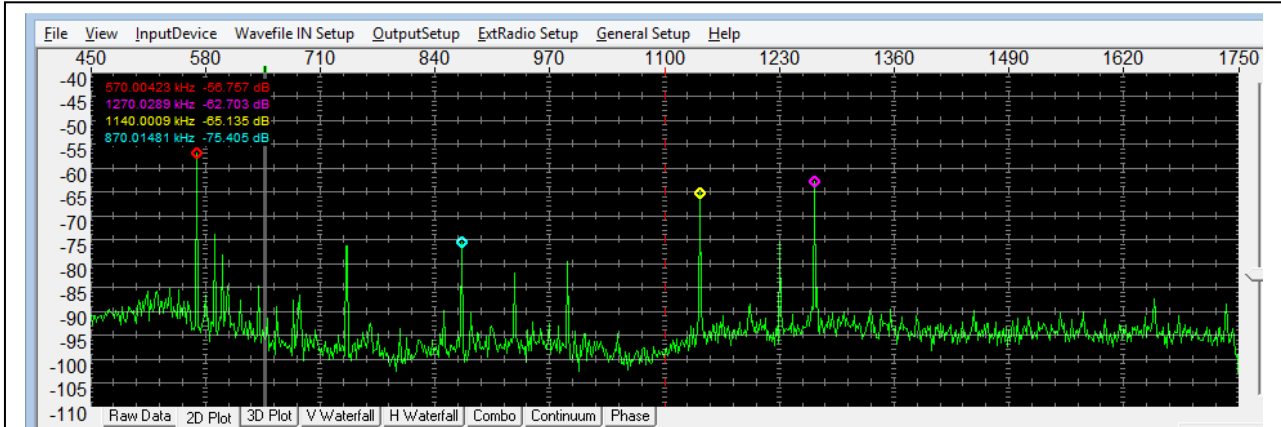


Figure 7 – BOG using southwest feed

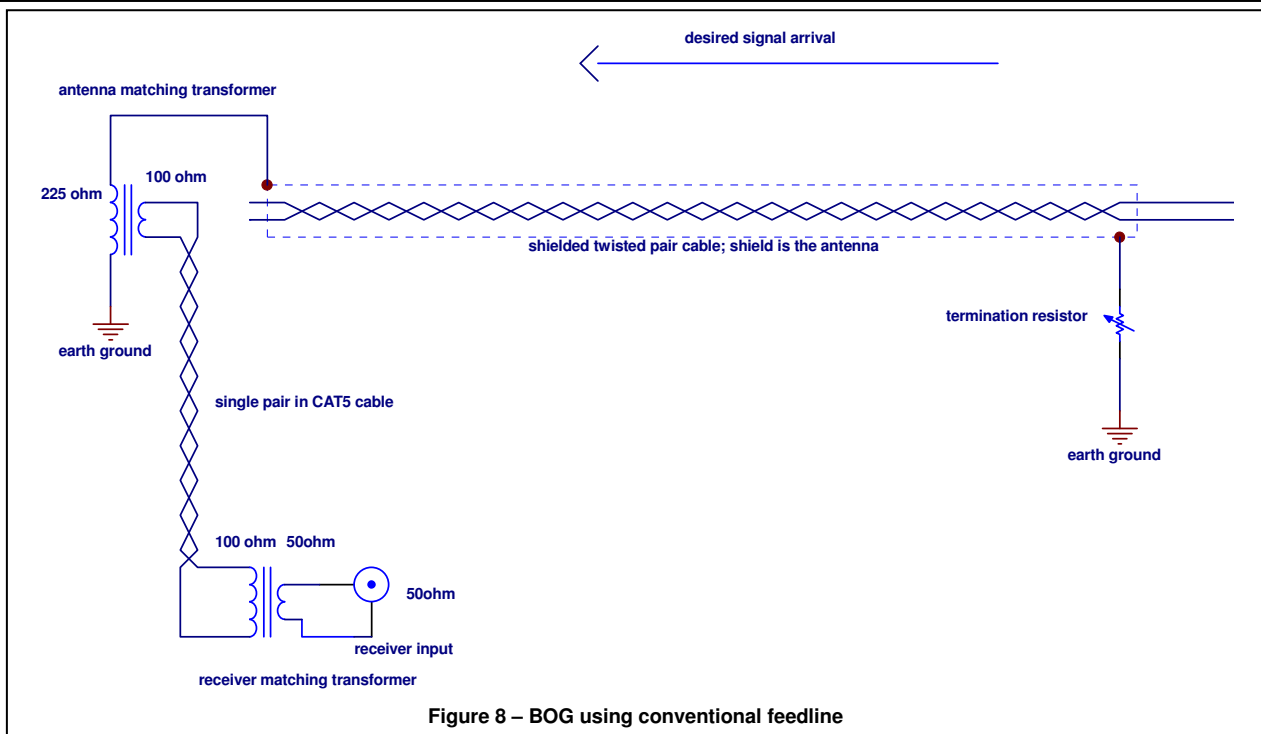


Figure 8 – BOG using conventional feedline

The results were mildly puzzling, because running the feed line from the "correct" end of the BOG resulted in slightly poorer signal levels off the target end of the antenna, as well as considerably increased pickup of local noise throughout the band. There was not much difference in signal strength off the back end of the BOG using either feed line configuration. (See figures 7 and 8 and Table 1)

	target stations (NE)				stations to reject (SW)			
frequency:	570	870	1270		830	950	1060	1260
NE feed--signal strength dBm:	-55	-71	-59		-98	-97	-100	-100
SW feed--signal strength dBm:	-57	-75	-63		-98	-95	-99	-99
frequency	location	bearing		frequency	location	bearing		
570	Cornerbrook, NL	47°		830	Worcester, MA	243°		
870	Stephenville, NL	48°		950	Campbellton, NB	303°		
1270	Sydney, NS	94°		1060	Natick, MA	240°		
				1260	Fredericton, NB	266°		

**Table 1 – Relative responses from various stations using 500' PEI BOG aimed 60°**

(The responses in Figures 7 and 8 are different from Figure 5 due to my having used a 26dB amplifier (Z10046A from Clifton Laboratories) along with 20dB attenuation provided by the NetSDR in the tests shown in Figures 6 and 7. This was an attempt to bring southerly signals out of the noise in order to measure their signal strength; instead it mostly just brought up the noise level. It was necessary to use large FFTs to bring the southerly signals out of the noise on the BOG to generate Table 1, particularly when using the southwest feed.)

At the moment, there are no explanations for the differences in response from the BOG when using the direct feed line compared with the internal feed line. As far as the higher noise level is concerned, perhaps suspicion should fall on the CAT5 cable that was used to convey the signal from the south end of the BOG to the receiver. Only one twisted pair in the cable was used as a feed line, while the others were left unattached to anything, and perhaps were picking up noise from the house or the nearby power lines on the road. When the CAT5 was used as the feed line from the north end of the antenna, it was running away from both the house and from the power lines along the nearby road.

*The important observation at this point is that a BOG made out of the shield of a shielded twisted pair produced signals that were no poorer than the same BOG that used the internal twisted pair as a feed line back to the receiver, and that this concept should be investigated further.* Weather permitting, the "Two Phools in the Phield" desert DXpedition of 2017 will address these issues, as will a Grayland DXpedition, and a further report will follow.

(Thanks to Mark Durenberger for his consultation in writing up this experiment.)

- i For further information about Beverage antennas, see IRCA reprints A011, A019, A042 and others, as well as online: <https://www.w8ji.com/beverages.htm> or [http://www.w0btu.com/Beverage\\_antennas.html](http://www.w0btu.com/Beverage_antennas.html) Wikipedia has quite a good write-up as well)
- ii "DXing over your shoulder with Beverages" by John Bryant was printed in DX Monitor of May 28, 2005 and is online at [http://www.dxing.info/equipment/over\\_your\\_shoulders\\_bryant\\_dx](http://www.dxing.info/equipment/over_your_shoulders_bryant_dx)
- iii Neil Kazaross addresses the response of BOG antennas at <http://www.dxing.info/community/viewtopic.php?t=371&start=0&postdays=0&postorder=asc&highlight=&sid=95f21ae97b28bdb72fa7ce0cae68ea3f>



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

Welcome to another edition of SportChannels! Hockey season is under way, and we're now taking a look at NHL network lists. The first conference we'll be featuring network lists are from the Western Conference. Flagship stations are in **boldface** type.

**WESTERN CONFERENCE – CENTRAL DIVISION**

**CHICAGO BLACKHAWKS** John Wiedeman, Troy Murray, Web: [nhl.com/blackhawks](http://nhl.com/blackhawks)

**720 WGN Chicago, IL** only

**COLORADO AVALANCHE** Marc Moser, Web: [nhl.com/avalanche/](http://nhl.com/avalanche/)

**AM** 1340 KTMM Grand Junction, CO  
**950 KKSE Parker, CO** 1340 KGGG Garden City, KS  
 1010 KSIR Brush (Fort Morgan), CO 1400 KWUF Pagosa Springs, CO  
 1230 KSTC Sterling, CO 1440 KRZD Wray, CO  
 1300 KCSF Colorado Springs, CO 1450 KBFS Belle Fourche, SD  
 1320 KOLT Scottsbluff, NE 1490 KNAM Silt, CO

**FM** 103.1 KYDT Pine Haven (Sundance), WY  
**92.5 KWOE Broomfield, CO\*** 106.1 KNFO Basalt (Aspen), CO  
 97.1 KZBR La Jara (Alamosa), CO  
 98.9 KTYV Steamboat Springs, CO  
 100.5 KRSJ Durango, CO

\* Night games only

**DALLAS STARS** Dave Strader, Daryl Reaugh Web: [nhl.com/stars/](http://nhl.com/stars/)

**1310 KTCK Dallas, TX**

**MINNESOTA WILD** Bob Kurtz, Tom Reid, Kevin Falness, Web: [nhl.com/wild/](http://nhl.com/wild/)

**AM** 1260 KDUZ Hutchinson, MN  
 740 KVOX Fargo, ND 1260 KROX Crookston, MN  
 790 KFGO Fargo, ND 1320 KOZY Grand Rapids, MN  
 860 KNUJ New Ulm, MN 1340 KDLM Detroit Lakes, MN  
 910 WHSM Hayward, WI 1340 KRBT Eveleth, MN  
 930 KKIN Aitkin, MN 1370 KSUM Fairmont, MN  
 1070 KVKK Verndale, MN 1390 KXSS Waite Park, MN  
 1170 KOWZ Waseca, MN 1400 WBIZ Eau Claire, WI  
 1230 KGHS International Falls, MN 1410 KRWB Roseau, MN  
 1230 KWNO Winona, MN 1440 KKKI Grand Forks, ND  
 1230 KWSN Sioux Falls, SD 1450 KATE Albert Lea, MN  
 1240 WMFG Hibbing, MN 1450 KBUN Bemidji, MN  
 1250 KCUE Red Wing, MN 1450 WELY Ely, MN

**96.7 KTCK-FM Flower Mound, TX** (simulcast)

1460 KDWA Hastings, MN 94.5 WELY-FM Ely, MN  
 1460 KKAQ Thief River Falls, MN 95.3 WXXZ Grand Marais, MN  
 1480 KAUS Austin, MN 95.7 KMKO Lake Crystal, MN  
 1480 KKCC Fosston, MN **100.3 KFAN-FM Minneapolis, MN**  
 1490 KXLQ Indianola, IA 101.7 KRCH Rochester, MN  
 1570 KAKK Walker, MN 102.9 K275BB Roseau, MN (2)  
 1570 KVTK Vermillion, SD 103.5 KUAL-FM Brainerd, MN  
 103.5 KUAL-FM Brainerd, MN  
 104.9 WLMX Balsam Lake, WI  
 105.7 WXCX Siren, WI  
 107.1 KMGK Glenwood, MN  
 107.5 KARZ Marshall, MN

**FM** 92.1 WWAX Hermantown, MN  
 93.1 K226CA Detroit Lakes, MN (1)  
 93.5 KSCR-FM Benson, MN  
 93.9 KKRC Granite Falls, MN

Relays: 1) KDLM 1340, 2) KRWB 1410

**NASHVILLE PREDATORS** Pete Weber, Brent Peterson, Chris Mason, Web: [nhl.com/predators](http://nhl.com/predators)

**AM** 1320 WMSR Manchester, TN  
 780 WPTN Cookeville, TN 1390 WTJS Jackson, TN  
 960 WBMC McMinnville, TN 1560 WPAD Paducah, KY  
 1050 WWIC Scottsboro, AL  
 1230 WHOP Hopkinsville, KY **FM**  
 1230 WMLR Hohenwald, TN 94.1 W231BU East Union, TN (1)  
**94.9 W235BW Nashville, TN** (2)

95.3 W237BV Hopkinsville, KY (3)  
**102.5 WPRT (FM/HD1/HD2) Pegram, TN**  
 103.9 WNTC Drakesboro, KY  
 106.1 W291CA Cookeville, TN (4)

Relays: 1) WTJS 1390, 2) WPRT-HD2 102.5, 3) WHOP 1230, 4) WPTN 780

**SAINT LOUIS BLUES** Chris Kerber, Kelly Chase, Web: [nhl.com/blues](http://nhl.com/blues)

1120 KMOX Saint Louis, MO

102.5 KEZK-HD3 Saint Louis, MO (simulcast)

**WINNIPEG JETS** Dennis Beyak, Paul Edmonds, Web: [nhl.com/jets/](http://nhl.com/jets/)

1290 CFRW Winnipeg, MB only

#### WESTERN CONFERENCE – PACIFIC DIVISION

**ANAHEIM DUCKS** Steve Carroll, Dan Wood, Josh Brewster, Web: [nhl.com/ducks/](http://nhl.com/ducks/)

830 KLAJ Orange, CA only

**ARIZONA COYOTES** Bob Heethuis, Nick Boynton, Luke Lapinski, Web: [nhl.com/coyotes/](http://nhl.com/coyotes/)

**AM** 1130 KQNA Prescott Valley, AZ

600 KVNA Flagstaff, AZ

780 KAZM Sedona, AZ

980 KNTR Lake Havasu City, AZ

1230 KATO Safford, AZ

1340 KIKO Miami, AZ

**FM**

92.3 KTAR-FM Glendale, AZ

94.3 KDDL Chino Valley, AZ

98.7 KMVP-FM Phoenix, AZ

99.9 K260BL Prescott, AZ (1)

Relay: 1) KQNA 1130

**CALGARY FLAMES** No play-by-play personnel information available, Web: [nhl.com/flames/](http://nhl.com/flames/)

960 CFAC Calgary, AB only

**EDMONTON OILERS** Jack Michaels, Bob Stauffer, Web: [nhl.com/oilers/](http://nhl.com/oilers/)

**AM** 630 CHED Edmonton, AB

890 CJDC Dawson Creek, BC

**FM**

92.7 CHSL Slave Lake, AB

93.3 CFYG Grand Cache, AB

93.5 CKVH High Prairie, AB

94.1 CKBA Athabasca, AB

94.3 CFXE Edson, AB

95.3 CJXK Cold Lake, AB

95.5 CFXP Jasper, AB

96.7 CFXW Whitecourt, AB

97.5 CFXH Hinton, AB

97.9 CKWB Westlock, AB \*

97.9 CKYX Fort MacMurray, AB

100.1 CJCD Yellowknife, NWT

104.7 CFRI Grande Prairie, AB

Note: \* denotes Oilers' list has calls as CFOK

**LOS ANGELES KINGS** No play-by-play personnel information available, Web: [nhl.com/kings/](http://nhl.com/kings/)

790 KABC Los Angeles, CA only

**SAN JOSE SHARKS** Dan Rusanowsky, Bret Hedican, David Maley, Web: [nhl.com/sharks/](http://nhl.com/sharks/)

**AM** 790 KFPT Clovis, CA

940 KFIG Fresno, CA

970 KESP Modesto, CA

1140 KHTK Sacramento, CA

1270 KXBX Lakeport, CA

1340 KATA Eureka, CA

1440 KVON Napa, CA

1490 KRKC King City, CA

**FM**

92.7 K224ER Eureka, CA (1)

96.5 K243BT Clearlake, CA (2)

98.5 KUFX San Jose, CA

102.1 KRBQ-HD2 San Francisco, CA

104.9 K285FW King City, CA (3)

105.1 KNCL-HD2 Sacramento, CA (4)

Relays: 1) KATA 1340, 2) KXBX 1270, 3) KRKC 1490, 4) KHTK 1140

**VANCOUVER CANUCKS** No play-by-play personnel information available, Web: [nhl.com/canucks/](http://nhl.com/canucks/)

1040 CKST Vancouver, BC only

**VEGAS GOLDEN KNIGHTS** Web: [nhl.com/goldenknights/](http://nhl.com/goldenknights/)

*This team is scheduled to enter the NHL within the next few years, playing out of Las Vegas, NV. Broadcast information will come as the franchise's inaugural season draws closer.*

In the next edition of SportChannels, we'll feature the network lists from the NHL's Eastern Conference. 73 and play hard!

## SPECIAL FEATURE

### DXing in an Urban Area for \$200

In the path of 75-100KW-equivalent directional lobes from six nearby AM transmitters. Radio Frequency Interference (RFI) from a dozen nearby houses, each with more than a dozen electronic devices. I wondered if DX was even possible here.

The first problem, nearby transmitters, requires a Receiver/Antenna combination where these local stations are only heard on their assigned frequencies. What I watched for:

1. Bleed – full audio heard on nearby frequencies;
2. Slop – bursts of swishing and similar sounds on nearby frequencies;
3. Mixing Product – arithmetic combinations of the frequencies of two or more stations where one or more stations' audio is heard, eg – a station on 1320 was heard on 1510 by mixing with 1130 because  $1510 = 1320 + (1320 - 1130)$
4. Harmonic – full audio heard on multiples of assigned frequency, eg – a station on 630 also heard on 1260
5. Intermediate Frequency (IF) transformer Mixing Product

I tried numerous currently available combinations of receivers and (internal or external) antennas, all priced at less than \$200 for the pair. The new (Summer 2016) Sangean HDR-18 with its internal antenna is the only one that completely eliminated Bleed and Mixing Products, and compares favourably in terms of Slop. None of the receivers had Harmonic or IF issues.

All the reviews that I read rank, for AM DX, the CCRadio-2E first among inexpensive portable radios. Side by side at Noon on a recent Winter day, KOFI was all alone on 1180 KHz on the HDR-18 but a local station was dominant on the -2E. I carefully rotated the -2E but could not get rid of it.

Most nights, especially after the neighbourhood's big screen TVs have all been turned off, the DX is stronger than the RFI, though conditions can vary from one end of the dial to the other.

The big difference in DX conditions, from week to week, night to night and sometimes hour to hour, is where the DX is coming from. On a given frequency, I can hear one station all alone today but another tomorrow, if conditions, for example, change from being great to the South and poor from the South East, to great SE and poor South.

In the 1960s, a longwire and tube communications receiver allowed rapid bandscans. Directional antennas, either internal or external, and modern receiver computer-based circuitry require time. First, to orient the antenna: to reduce RFI, find the strongest signal, or null the pesky regular station on the frequency. Then, to allow the circuitry to lock in on the signal.

What I have learned from all this is that decent DX is possible in an Urban area, but be prepared to test a lot of receiver/antenna combinations before giving up in disgust. Urban DX environments vary dramatically and so does the best choice of equipment.

Finally, gone are the days of Brand Consistency. I had planned to replace the AC-only Sangean HDR-18 with the new HDR-16, which can run on batteries. Then I discovered that, although both models are based on the same receiver circuitry, the HDR-16 has a much shorter ferrite rod, significantly reducing its sensitivity.

CCrane is the best example of Brand *Inconsistency*. Receiver design varies widely across models. For example, a side by side DX comparison of the CCRadio-EP and CC Skywave, both tuned to the relatively quiet night-time 580, each rotated for best reception of the clearest audio available, ended up on different stations.

Will I ever get Trans-Pacific, Trans-Atlantic, Caribbean, and Central and South American DX from here? Given the background noise levels, I seriously doubt it, hence my reluctance to invest in an amplified loop, and SDR or communications receiver.

For now, I'm happy to concentrate on Domestic DX and a few of the high-powered Mexicans.

Jon Pearkins, Edmonton



### 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](http://www.ircaonline.org/TIS_2016.pdf).

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

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

### IRCA Mexican Log, 20th Edition (Winter 2015)

The **IRCA MEXICAN LOG** lists all AM stations in Mexico by frequency, including call letters, state, city, day/night power, slogans, schedule in UTC/GMT, formats, networks and notes. The call letter index gives call, frequency, city and state. The city index (listed by state, then city) includes frequency, call and day/night power. The transmitter site index (listed by state, then city) tabulates the latitude and longitude of transmitter sites. This is an indispensable reference for anyone who hears Mexican radio stations. Size is 8 1/2" x 11".

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

### A DXers Technical Guide, 4<sup>th</sup> Edition (Spring 2004)

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

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

### Sunrise/Sunset Maps

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

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

### IRCA Foreign Log

The IRCA has published nine volumes of the **IRCA Foreign Log** which are still available. Each volume contains the several hundred actual tips that were reported to the DXWW sections during an entire year, compiled and retyped in a book format. In addition, special features include articles on foreign DXing (volumes 6, 7 and 8), utility lists (volumes 7 and 8), shortwave parallels (volume 8) and BCB propagation (volumes 6, 7 and 8). The **IRCA** still has 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>.

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

### "DX Monitor" on DVD

IRCA's regular bulletin "**DX Monitor**" Volumes 1 through 50 in .pdf format on 2 DVDs. Re-live the days gone by and re-introduce yourself to the former members who helped make the IRCA great!! NOTE: You will NEED a DVD reader to open the .pdf files. These files were TOO LARGE to use regular CD's.

Prices: **IRCA/NRC members** – \$15.00 (US), \$16.00 (Canada) \$16.50 (México), \$17.50 (rest of the world). **Non-IRCA/NRC members** – add \$2.00.

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

The **IRCA** is a non-profit organization devoted to the hobby of hearing distant stations on the Broadcast Band (510-1720 kHz). **DX Monitor**, the official publication of the IRCA, is published in "soft" form 35 times a year (weekly from November through March, twice monthly from April to November.) **DX Monitor** contains members' loggings, articles on radio stations, receiver reviews, technical articles, DX tips, and other material of interest to Broadcast Band DX hobbyists.



### CLUB OFFICERS AND CONTACT INFORMATION

**President:** Phil Bytheway, 9705 Mary Ave NW, Seattle WA 98117-2334 **E-mail:** [phil\\_tekno@yahoo.com](mailto:phil_tekno@yahoo.com) (all proposals, suggestions and gripes go here)

**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)

**Board of Directors:** Bill Block – [billblock@cableone.net](mailto:billblock@cableone.net), Dennis Gibson – [wb6tnb@yahoo.com](mailto:wb6tnb@yahoo.com), John C Johnson – [John\\_Johnson@prodigy.net](mailto:John_Johnson@prodigy.net), Patrick Martin – [mwdxer@webtv.net](mailto:mwdxer@webtv.net) (Chairman), Bruce Portzer – [bportzer@comcast.net](mailto:bportzer@comcast.net), Mike Sanburn – [mikesanburn@hotmail.com](mailto:mikesanburn@hotmail.com) and Robert Wien – [wienbob@aol.com](mailto:wienbob@aol.com)

**Publishing Committee: Temporary Editor-in-Chief:** Phil Bytheway, 9705 Mary Ave NW, Seattle WA 98117-2334  
**E-mail:** [phil\\_tekno@yahoo.com](mailto:phil_tekno@yahoo.com) (all material for publication goes here).

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