

February 16, 2013 – Volume 50, Number 23 – Edition 1594 – ISSN 899-9733

FROM THE EDITOR-IN-CHIEF

There's still some time to decide what you can do for IRCA; see the bottom of the page for details. Come on, let's give Fresh a hand! This is the last of the weekly editions for this season; the next edition is in two weeks!

DX TEST: KBXD 1480 DALLAS, TX

KBXD 1480 Dallas, TX will test on **Sunday, March 10** from 0100 to 0400 ELT. Note that Daylight Savings Time will begin in the Eastern Time Zone during this test; it will be late Saturday night in the Western time zones.

The test will feature Morse Code, sweep tones, special music and easily identifiable content. KBXD will be operating at

50,000 watts using their new six-tower daytime pattern.

No E-mail reports will be accepted for this test. Reports should be sent by regular postal mail. Note that KBXD is graciously covering the cost of mailing out QSLs. No need to send a SASE. Reports must include the listener's location, equipment used and details about content heard. If possible, please provide an audio recording (regardless of whether it's a cassette tape or USB stick).

All reports go to:

Jerry Kiefer
KBXD
8035 East R.L. Thornton Freeway
Dallas, TX 75228

When you write, be sure to thank Jerry for running the test.

This test was arranged by Paul Walker. (Thanks Paul!)

LEARNING AND SHARING: 2013 - TWIN CITIES

The NRC and IRCA, the Minnesota DX Club and the Worldwide TV-FM DX Association will convene in Minneapolis August 1st through the 4th, 2013.

The hotel selected for the 2013 Convention is the **Holiday Inn Bloomington South Airport Mall** in Minneapolis. The hotel provides free transportation to and from the airport and the Mall of America and will host the Saturday night joint banquet. All hotel rooms have microwave and refrigerator, HD cable. Free WiFi, and a Business Center are available. There's a great pool area where we'll have a Hospitality room. Breakfast is provided each morning and there's a Green Mill Restaurant and bar area.

Make your hotel reservations *right now*, to get the special convention rate. Call the Holiday Inn at 952-884-8211. Use the registration code "NRC" to obtain the special convention rate of \$79.00 per night. This rate includes tax.

Cost for convention registration is \$45 for members and guests. This includes the Saturday night banquet, as well as the amenities at the **Museum of Broadcasting** and the Friday evening "Pizza-fest" at the Museum.

Your check or Money Order for registration should be **payable to: "The National Radio Club"**. Send to **Skip Dabelstein at 8008 North Iron Ridge Drive, Tucson, Arizona 85743**. You can contact Skip at **ckdabel@comcast.net**. Once you are registered, we'll send you an information form so we can learn about your special needs and interests. **PLEASE register early so we can include you on pre-convention information.**

You can also register on-line at <http://www.nrcdxas.org/convention/13nrcon/2013Info.htm> Remember to add a dollar to the on-line cost if you're using PayPal.

Auction items as well as anything else you wish to send ahead of your arrival should be sent to: Steve Raymer, Museum of Broadcasting, 3517 Raleigh Avenue, St. Louis Park Minnesota 55416. Please put "HOLD FOR DX CONVENTION" on your packages.

If you have questions please contact Host Mark Durenberger at www.durenberger.com. For further information about the clubs, click on their logos above.

FROM THE PRESIDENT (Lee J. Freshwater)

Volunteers are needed for the following:

AWARDS : Not much to do here except for printing out the HEALD award every year. . No one has applied for the DX awards for many years.

PUBLISHING : Get address list from Lynn. Create labels and envelopes. Send (email) PDF file from the EIC to the printers. Pick up, Staple, Fold, stuff, then mail. It takes me about an hour to do the labels and envelopes. I usually do the envelopes on Wednesday morning before leaving for work. I pick up the DXM at the Printers on Wednesday night on my way to dinner. I staple, fold and mail on SATURDAY AM. It takes about an hour to fold and staple. It helps when you have a wife that assists you. You can set your own schedule as long as the issues go out on or before the masthead date. You will also need to send out sample issues as needed.

E.D.X.R. : Take email and mailed in DX reports and put in proper form for publication. Usually takes me about an hour to 90 minutes per issue.

I will be giving up these duties at the end of VOLUME 50. If no one comes forward during VOLUME 50, these features WILL go away. I will NOT extend my club duties past VOL 50.

BROADCASTING INFORMATION

Robert J. Wien (KG6RJW/3) - 902 Hall Station Drive #104 - Bowie, MD 20721
E-mail: wienbob@aol.com **Column Deadlines: Saturdays**

DATE OF COLUMN: FEBRUARY 9, 2013

Column data span: January 27, 2013-February 09, 2013

Data courtesy of Stationintel.com, FCC database and member contributions

COLUMN DEADLINES: SATURDAYS

Please send your tips to the Email address above and no other.
 Deadlines for column will be Saturdays. Thank you.

CALL CHANGES

FREQ	OLD CALL	CITY OF LICENSE	NEW CALL
670	KWXI	Glenwood, AR	KHGZ
950	WGOV	Valdosta, GA	WGUN
1010	WGUN	Atlanta, GA	WTZA
1050	WCX	Cincinnati, OH	WGRI
1160	WQRT	Florence, KY	WCVX
1370	WBZH	Pottstown, PA	WPAZ
1550	WYNE	North East, PA	WMCE
1580	WNEW	Morningside, MD	WJFK
1600	WLUE	Eminence, KY	WLRS

FORMAT, SLOGAN AND SILENT STATUS CHANGES

FREQ	CALL	CITY OF LICENSE	NEW INFORMATION
580	KRSA	Petersburg, AK	now silent
690	WVCY	Oshkosh, WI	old slogan "VCY America", new "Christian Information Radio"
690	WVCY	Oshkosh, WI	now silent
790	WQSV	Ashland City, TN	old slogan "The Light", new "102.5 The Game"
830	WQZQ	Goodlettsville, TN	was black gospel, now ESPN radio
830	WQZQ	Goodlettsville, TN	new "B 107.3 Danbury's Classic Hits"
850	WAXB	Ridgefield, CT	old slogan "True Oldies"
850	WAXB	Ridgefield, CT	was oldies, now classic hits
850	WAXB	Ridgefield, CT	now silent
880	KJOZ	Conroe, TX	old slogan "The Game"
900	WGHM	Nashua, NH	new slogan "ESPN New Hampshire"
900	WGHM	Nashua, NH	old slogan "Magic 95", new "EI Logo 950"
950	WGUN	Valdosta, GA	was urban AC, now regional Mexican
950	WGUN	Valdosta, GA	was talk, now country; new slogan "Indy 102.9 FM"
1010	KIND	Independence, KS	was Dial Global pop classic hits oldies
1010	WPCN	Stevens Point, WI	now Cumulus True Oldies
1010	WPCN	Stevens Point, WI	old slogan "Atlanta's 1010", new "Old School 1010"
1010	WTZA	Atlanta, GA	was talk, now R&B oldies
1010	WTZA	Atlanta, GA	old slogan "Gospel AM"
1020	WRIX	Homeland Park, SC	new slogan "The Power of the Gospel"
1020	WRIX	Homeland Park, SC	new "Inspiration 1050"
1050	WGRI	Cincinnati, OH	old slogan "Christian Talk 1050"
1050	WGRI	Cincinnati, OH	

1050 WGRI Cincinnati, OH was religious teaching, now black gospel
1090 WUVI Charlotte Amalie, VI new "The Voice of the University WUVI"
1090 WUVI Charlotte Amalie, VI old slogan "The Word of God"
1090 WUVI Charlotte Amalie, VI was gospel, now variety
1110 WOMN Franklinton, LA was silent, now format not available
1120 WKAJ St. Johnsville, NY is new, format not available
1130 KLEY Wellington, KS old slogan "Sports Radio", new "Newsradio 1130"
1130 KLEY Wellington, KS was ESPN sports, now talk
1130 WFAF Camden, SC now silent
1150 KXET Portland, OR old slogan "La Gran D", new "Russian Radio"
1150 KXET Portland, OR was regional Mexican, now ethnic
1150 KZNE College Station, TX was ESPN radio, now CBS sports
1160 WCVX Florence, KY adds slogan "Christian Talk 1160"
1160 WCVX Florence, KY was silent, now religious teaching
1190 WMEJ Bay St. Louis, MS was Spanish CHR, now regional Mexican
1230 WFVA Fredericksburg, VA was adult standards, now talk
1230 WGUY Veazie, ME adds slogan "Maine's Best Oldies"
1230 WGUY Veazie, ME was format not available, now oldies
1230 KGRO Pampa, TX adds slogan "Soft Hits"
1230 WXCF Clifton Forge, VA adds slogan "103.5 Big Country"
1230 WXCF Clifton Forge, VA was silent, now Dial Global True Country
1240 KDOK Kilgore, TX old slogan "1240 The Beat"
1240 KDOK Kilgore, TX new slogan "All Hit Radio 1240 AM"
1240 KDOK Kilgore, TX was UC, now classic hits
1240 KFMO Park Hills, MO was ESPN radio, now CBS sports
1240 WSDT Soddy-Daisy, TN was silent, now country
1240 WSDT Soddy-Daisy, TN adds slogan "Copperhead 1240"
1250 WGAM Manchester, NH old slogan "The Game"
1250 WGAM Manchester, NH new slogan "ESPN New Hampshire"
1260 WCSA Ripley, MS was silent, now black gospel
1270 WAIN Columbia, KY new "Sports Radio AM 1270"
1270 WAIN Columbia, KY old slogan "Fox Sports Radio AM 1270"
1270 WAIN Columbia, KY was Fox sports radio, now CBS sports
1280 KZNS Salt Lake City, UT old slogan "1280 The Zone", new "The Zone"
1280 WANS Anderson, SC old slogan "Talk 1280"
1280 WANS Anderson, SC new slogan "Fox Sports Radio 1280"
1280 WANS Anderson, SC was talk, now Fox Sports Radio
1290 WOWZ Appomattox, VA now silent
1300 WKSC Kershaw, SC now silent
1320 KLWN Lawrence, KS was ESPN radio network, now Fox Sports Radio
1340 KYNS San Luis Obispo, CA was talk, now news
1340 KYNS San Luis Obispo, CA adds slogan "SLO Radio News 1340 AM"
1340 WGAU Athens, GA old slogan "News Talk 1340",
1340 WGAU Athens, GA new "Fox News 1340 WGAU"
1350 WTDR Gadsden, AL old slogan "News Plus WGAD"
1350 WTDR Gadsden, AL new slogan "Thunder Country 92.7"
1350 WTDR Gadsden, AL was talk/oldies, now country
1360 KKMO Tacoma, WA was Spanish, now regional Mexican
1360 KKMO Tacoma, WA adds slogan "El Rey 1360"
1360 KLYR Clarksville, AR old slogan "West Arkansas' Radio Tradition",
1360 KLYR Clarksville, AR new "True Country"
1360 KLYR Clarksville, AR was Dial Global mainstream country
1360 KLYR Clarksville, AR now Dial global True Country
1400 KCOG Centerville, IA was contemporary Christian, now classic hits
1400 KCOG Alliance, NE adds slogan "Classic Hits"
1420 WKSR Pulaski, TN was oldies, now classic country
1420 WKSR Pulaski, TN old slogan "Rocky 1420", new "1420 Classic KSR"
1450 WVLD Valdosta, GA was sports, now classic rock
1450 WVLD Valdosta, GA new slogan "The Eagle"
1480 WCHZ Augusta, GA old slogan "1480 El Puente", new "95 Rock"
1480 WCHZ Augusta, GA was Spanish CHR, now rock
1480 WQTM Fair Bluff, NC now silent
1530 WMCE North East, PA old slogan "Oldies 1530 AM"
1530 WMCE North East, PA new slogan "Greatest Hits 88.5"
1540 WMJY Martinsville, IN old slogan "My Joy 88.9", new "My Joy"
1550 KKLE Winfield, KS old slogan "Sports Radio", new "Newsradio 1550"
1550 KKLE Winfield, KS was ESPN sports, now talk
1580 WNEW Morningside, MD new "CBS Sports Radio 1580"

1580 WNEW Morningside, MD old slogan "1580 Government Business Radio"
1580 WNEW Morningside, MD was business news, now CBS sports
1590 KTCH Wayne, NE new "Wayne America KTCH AM 1590"
1590 KTCH Wayne, NE old slogan "Country 1590"
1590 KTCH Wayne, NE was country, now classic country
1590 WABV Abbeville, SC now silent

MEMBER CONTRIBUTIONS

(NO NEW MEMBER CONTRIBUTIONS THIS ISSUE)

(I'm always willing to take member inputs for the column!)

Just 5 days till Valentine's Day, hope your DX is dear to your heart. We're in the middle of winter doldrums, but the weather should be starting to warm up soon! 73's. Bob Wien

WESTERN DX ROUNDUP

Nancy Johnson – 265 Waterton Way – Billings MT 59102-7755

E-mail: NancyJohnson@prodigy.net

WDXR DEADLINES: Feb. 22, March 8, March 22, April 5, April 19. Please use Eastern Time.

REPORTERS FOR THIS ISSUE:

- (RB) **Rick Barton**-El Mirage, AZ **desertmoon_dxshack@inbox.com**
Hammarlund HQ-120X, Panasonic RF-2200, random wire, and Slinky
 - (AB) **Art Blair**-730 SW 3rd St.-Fruitland, ID 83619 **artblair1937@gmail.com**
NRD-515, Kiwa loop
 - (BB) **Bill Block**-Prescott Valley, AZ 86314 **billwblock@msn.com**
Drake R8
 - (GH) **Glen Hansen**-64985 Olson Rd.-Deer Island, OR 97054 **gbhansen2@q.com**
Hammarlund HQ-180, 300' wire S/W, 800' wire E/W, 1000' random BOG wire (Beverage on ground)
 - (PM) **Patrick Martin**-P.O. Box 843-Seaside, OR 97138-0843 **mwdxer@webtv.net**
Drake R8, Eastern Beverage
 - (KJP) **Kirk J. Poole**-Troutdale, OR
2003 Nissan Xterra car radio
-
- 590 KUGN **OR**, Eugene heard 2/6 0847 with "KUGN Traffic." (BB-AZ)
 - 830 KNCO **CA**, Grass Valley 2/7 0630-0800 dominant on channel, no sign of WCCO. First time heard. (KJP-OR)
 - 850 KOA **CO**, Denver 2/4 0915 local spot for "Johnson advantage...Johnson Auto Mall," fanfare music, and male "It's 7:15 on 8-50 KOA." Very good after local sunrise. (RB-AZ)
+2/4 2107 "Rockies Radio KOA" then talk about Rockies. (AB-ID)
 - 870 KFLD **WA**, Pasco 1/27 0100 ID and news. Fair with some 880 splash, no sign of WWL on Hammarlund HQ-180 with S/W wire. (GH-OR)
 - 930 KROE **WY**, Sheridan 2/2 1930 KROE ID & talk, possibly news, poor under KSEI. (AB-ID)
 - 960 KNDN **NM**, Farmington 2/5 0858 C&W music, "KNDN, Farmington" at 0900, weak under KLAD. (AB-ID)
 - 970 KFTA **ID**, Rupert 2/1 1849-1900 dialog in Spanish by two gents, ads, Super Bowl mention, ESPN promo in English, "Rupert, Idaho" mention at 1859. (AB-ID)
 - 1080 KVNI **ID**, Coeur d'Alene 2/7 1030 local ads, HS & college sports at 1031, Good with slight KFXX QRM. (AB-ID)
 - 1140 KXST **NV**, N. Las Vegas 2/2 1000 "KXST North Las Vegas, 11-40 AM and HD-2 Henderson, the all new CBS Sports 11-40," by male (recently I had reported the new format & slogan, but incorrectly reported the old call KYDZ). Messing with CHRb (western Canada) still hanging on after our local sunrise. (RB-AZ)
 - CHRB **AB**, High River 2/3 0900 country music up out of the jumble and quickly to ID by male and into Gospel program, "CHRB High River Alberta...Golden West Radio...Your community radio for southern Alberta." (RB-AZ)
 - 1250 KCFM **OR**, Florence 1/28 2340 NOS format, fair signal with Ray Charles tune, ID. Trading places with KWSU on Hammarlund with random wire. New! (GH-OR)
 - 1270 KDJI **AZ**, Holbrook heard 2/3 0905 with weather report. (BB-AZ)
 - 1310 KLIX **ID**, Twin Falls 1/27 1700 news & ID weak and mixing with KNPT at times. Perhaps one other in there as well, on HQ-180 with E/W wire. (GH-OR)
 - 1320 KSCR **OR**, Eugene 1/23 0100 faint ID in the mix, talk show I think. Really weak, very seldom heard. (GH-OR)
 - 1340 KIKO **AZ**, Miami heard 2/8 0905 with "KIKO" then weather report. (BB-AZ)
 - 1380 KTKZ **CA**, Sacramento 1/27 1630 ID and political talk show of some sort. Very strong like a local on HQ-180 with E/W wire. (GH-OR)
 - 1460 KION **CA**, Salinas 1/27 2205 faint ID out in the jumble. Coast to Coast show (I think). Very weak on HQ-180 with E/W wire. New! (GH-OR)

1610 CHHA ON, Toronto 2/7 0407-0440 first mixing with TIS stations, then Caribbean Beacon, finally at 0432 a male announcer in PP speaking "Radio Voices Latinas," per a cassette tape I recorded. Good brief fadeups, but only a phrase or part of a sentence most of the time. New for me. (PM-OR)

UNID

1540 UNID 1/30 0000-0100 NOS format, ad for ancestry.com, not IDs at TOH or BOH, using HQ-180 and random wire. Same station I heard back before Christmas. Ideas? (GH-OR)

Thank you to our WDXR reporters this week. There will be no deadline Friday 2/15; the next one will be Friday the 22nd. Nancy 2/8 2100

CENTRAL DX ROUNDUP

John C Johnson – 265 Waterton Way – Billings MT 59102-7755
E-mail: John_Johnson@prodigy.net CDXR reports ONLY: cdxr@ircaonline.org

RIDING GAIN

[EB-MO] **Eric Bueneman**, Hazelwood, MO **N0UIHEric@aol.com**
 GE Superadio III, Yaesu FRG-7, Worcester Space Magnet II.
 [GH-OK] **Glenn Hauser**, Enid, OK **wghauser@yahoo.com**
 DX-398
 [POB-IN] **Pat O'Brien**, Pekin, IN **obie47165@yahoo.com**
 Eton S350DL, Grundig Indoor Loop.

DOWN THE DIAL

550 KFRM KS, Salina. 09:36 with "KFRM is full time farm radio and your source for farm markets in Kansas and Oklahoma" after a string of nothing but Nebraska stories. [GH-OK]
 680 WCNN GA, North Atlanta. 2-3 fair. 20:22 with spots, promotion for free beer mugs. [POB-IN]
 940 WFAW WI, Fort Atkinson. 2-4 poor. 20:22 with Yahoo Sports programming. [POB-IN]
 1240 KBIZ IA, Ottumwa. 1-28 fair to poor mixing with others. 00:00 with "12-40 KBIZ" ID into ABC News. [EB-MO]
 1350 KCOR TX, San Antonio. 2-7. 09:49 with promo in Spanish for traffic and weather every dekaminate. "KCOR" ID. [GH-OK]
 1530 KMMB MO, Butler. 1-26 fair to poor mixing with WLIQ. 09:02 with ABC News, local and national spots, community calendar feature, weather forecast for west central Missouri. [EB-MO]
 WWDX TN, Huntingdon. 2-1 good to fair over WCKY. 21:00 with "WWDX Huntingdon. 15-30 The Score" legal ID, slogan. Yahoo! Sports Radio update, network spots. [EB-MO]
 1550 KYAL OK, Sapulpa. 1-25 good to fair mixing with WPFC, CBEF. 03:44 with promos, "The Sports Animal" slogan. Mentions of 96.1 and 97.1 FM, promos for Oklahoma Sooners and Oklahoma City Thunder basketball games. [EB-MO]

25 YEARS AGO

Date issue of IRCA's "DX Monitor" ... **Tim Kridel** of Middle Island, NY mentioned WGBB-1240 Merrick, NY switched to talk and their ratings went from 0.3 to diddly ... **Rick Evans** of Wisconsin Rapids, WI found conditions turned worse in late January, but logged two new stations WFDF-910 and WHBC-1480 ... **Mark Strickert** of Berkeley, CA mentioned the only thing different about KFBK-1530 after the sale to Westinghouse by McClatchy was KFBK added "Group W, a Westinghouse Broadcasting Station" to their ID.

OPEN MIKE

This column was typed 2-9-13. 73, John

EASTERN DX ROUNDUP

Lee J Freshwater – 414 SE 3rd St – Ocala FL 34471
E-mail: EDXR-at-AMLOGBOOK-dot-COM

Deadlines: Saturdays 7 AM!!

STARS OF THE WEEK

(JJR-MI) John J. Rieger L'Anse,MI Grundig Satellit 750 stock
 (WM-MD) William McGuire Cheverly, MD

LOGGINGS

540 MD WGOP Pokomoke City 1-23 1744 Oldies music heard, ID (WM-MD)
 570 ON CKGL Kitchener 1-25 0713 Poor in/out w/WNAX. "...in downtown Kitchener"... "570News." (JJR-MI)
 680 WV WKAZ Charleston 1-22 1748 Oldies music heard, ID (WM-MD)
 790 KY WKRD Louisville 1-08 2000 Local mentions (WM-MD)
 810 VA WPIN Dublin 1-18 1705 "Real Country "; ID (WM-MD)
 820 OH WVSG Columbus 1-18 1750 Catholic pgm heard (WM-MD)

830 TN WQZQ Goodlettsville 1-18 1742 Black Gospel mx heard (WM-MD)
 850 IL WAIT Crystal Lake 1-19 1740 SSB Heard, ID. Sign off (WM-MD)
 MO KFJO Clayton 1-18 1757-1800 Focus on the Family pgm; ID; NEW (WM-MD)
 900 SK CKBI Prince Albert 1-24 2100 Poor -steady. "900 CKBI a ... radio station." No CHML. C&W (JJR-MI)
 950 MB CFAM Altona 1-24 2050 Good almost at times. "Classics til Dawn" Christian ??? (Business name) calls into more mx @:00. Lost to WWJ mins later (JJR-MI)
 950 SC WORD Spartanburg 1-19 1900 "News Radio 950"; ID (WM-MD)
 1010 AB CBR Calgary 1-25 0837 Fair +steady! "on the Calgary eyeopener..." Sports. "CBCsports.ca" "Here in Calgary...local sports writer here in Calgary" Alone. Rarely in this well! (JJR-MI)
 1070 TN WFLI Lookout Mountain 1-08 1712 Southern Gospel heard; ID (WM-MD)
 VA WINA Charlottesville 1-08 1705 Local News, weather, ID (WM-MD)
 1150 DE WDEL Asheville 1-24 1740 Station Promo; local mentions, S. Gospel mx (WM-MD)
 1190 SK CFSL Weyburn 1-25 0722 Poor "Today's Hits & All Time Country favorites...AM 1190" DiscoverWeyburn.com, Roads: Regina, Hwy 33, ice, drifting snow. (JJR-MI)
 1200 FL WINK Pine Island Center 1-18 1732 ID; NEW (WM-MD)
 1230 MN WKLK Cloquet 1-25 2124 Pr in fade up o/assumed WSOO. "AM 1230 WKLK" NOS (JJR-MI)
 MN KGHS International Falls 1-24 1954 Pr mostly in/out 50+ mins: Oldies 60s/70s/80s songs. Calls finally noted thru fade ins/outs/up. (JJR-MI)
 MN KTRF Thief River Falls 1-24 2143 Poor "coverage... right here on KTRF" Hockey or something. Not in long enough. (JJR-MI)
 1240 MN WJON St.Cloud 1-25 2105 Poor -Break in MN Wild hockey and calls (JJR-MI)
 WI WJMC Rice Lake 1-24 1900 Poor w/ end of Domino/Van Morrison, LID by woman, CBS nx. Alone in fade up/out. (JJR-MI)
 1250 PA WDDZ Pittsburgh 1-18 1952 Radio Disney (WM-MD)
 1300 NY WGDJ Rensselear 1-17 1800 "Your Home for Sienna Basketball; ABC News (WM-MD)
 1310 MI WCCW Traverse City 1-25 0754 Poor "AM 1310 the Score" noted in passing, upon tune in. How lucky can ya get? (JJR-MI)
 1330 SK CJYM Kindersley 1-24 1942 Poor ..on 1330 CJYM, Classic Hits Radio" Mexico/Edward Bear. Love Can Content oldies, er Classic Hits, hi. (JJR-MI)
 1370 MI WLJW Cadillac 1-24 1754 Poor -some fades, "support for Ava Maria Radio".... "WLJN." /WLJN. (JJR-MI)
 1380 NC WKJV Asheville 1-24 1740 Station Promo; local mentions, S. Gospel mx (WM-MD)
 1450 WI WDLB Marshfield 1-26 0823 Poor "weathereye...on 1450 WDLB" 2 degrees, high:12. Live jock /Sports rpt o/anything.. (JJR-MI)
 1460 ND KLTC Dickinson 1-24 1750 Poor - ABC nx, MN Twinsfest, ? Mills in Richardson & Amerin 701-974-21XX, Discover card, O'Reilly, "Sweet NDakota forecast...Classic Country 1460 KLTC" Alone. (JJR-MI)
 ON CJOY Guelph 1-24 1835 Fair in fade up. "...the Guess Who on C-J-O-Y." Lost to KXNO. (JJR-MI)
 1490 MI WTIQ Manistique 1-24 1926 Poor in fade up. "in downtown Manistique..." Pauls Plumbing & Appliances 341-XXXX. (JJR-MI)
 1520 OK KOKC Oklahoma City 1-26 0735 Poor -ad for ??? on Broadway. Ph:973-99XX. "Most programming on KOKC over the weekend is recorded, but we'll have some live..." Rather candid info by jock. I'd normally not report a 50kw stn but in absence of usual KOLM-MN, I will. (JJR-MI)
 1580 WI WTTN Columbus 1-24 1742 Poor til power down at :45. Departes, same as co-owned WRRD. No CKDO. (JJR-MI)
 1600 MN KPMP Watertown 1-24 1918 Very poor-Poor w/ YL Hmong chanting. Only Hmong on freq so pretty sure this is it, hi. No WAAM, KGYM. (JJR-MI)
 1610 ON CHHA Toronto 1-18 2005 Spanish Programming heard (WM-MD)
 1620 FL WNRP Gulf Breeze 1-19 1815 End of FL State / VA BB game. Local ads (WM-MD)
 1650 IA KCNZ Cedar Falls 1-18 1905 "The Fan" (WM-MD)
 1660 NJ WWRV Jersey City 1-18 1902 Korean pgm heard (WM-MD)
 NC WBCN Charlotte 1-17 Mention of Davidson Basketball (WM-MD)
 1680 MI WPRR Ada 1-24 2000 "Public Reality Radio" heard (WM-MD)

UN-IDEN

770 ?? ???? 1-19 1710-1720 Southern Gospel mx heard (WM-MD)
 810 ?? ???? 1-19 1732-1737 Spanish pgm in WGY null (WM-MD)
 940 ?? ???? 1-25 2111 Poor -How Do You Do/Mouth&McNeil @:11, long fade and then Magnet&Steel/Walter Egan @:26, lost then then GX94. I am 99.44/100% sure this was KMER Kemmerer, WY as I cannot think of anything else remotely close. Still, not good enough. Owned by Cumulus, my guess is Cumulus feed for Classic Hits, which 97.7 WOLV runs up here. These songs would fit format! Will try again tonight. This hobby is frustrating, hi! (JJR-MI)
 1090 ?? ???? 1-19 1755-1800 Oldies music over WBAL (WM-MD)
 1210 ?? ???? 1-18 1720 Spanish music heard (WM-MD)
 1550 ?? ???? 1-19 1823 "The True Oldies Channel" over French (WM-MD)

Back from our cruise , and finally catching up. Thanks to William and John this week. fresh 2-09 0825

DX WORLDWIDE – WEST / TROPICAL BAND DX

Patrick Martin – PO Box 843 – Seaside OR 97138

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

Deadline, Sunday 2/24 noon PLT.

TRANS PACIFIC DX ROUNDUP

- 153 **RUSSIA**, Komosomolsk, R Rossii. 0816-0818 2/9 good signal with woman in RR. W-SW ewe. (DV-WA)
- 180 **RUSSIA**, Yelizovo, R Rossii. 0819 2/9 weak signal with woman in RR. W-SW ewe. (DV-WA)
- 189 **RUSSIA**, Petropavlovsk, R Rossii. 1321 2/7 weak with woman in RR. NW ewe. (DV-WA)
- + 0821 2/9 poor signal with above programming. HPAW. (DV-WA)
- 279 **RUSSIA**, Yuzhno-Sakhalinsk, R Rossii. 1328 2/7 weak signal with man in RR and music. NW ewe. (DV-WA)
- + 0822 2/9 fair signal with woman in RR. HPAW. (DV-WA)
- + Hrd at 1410 2/10 with talk. (BB-AZ)
- 567 **JAPAN**, JOIK, Sapporo, NHK1. 1537 2/4 weak signal with man in JJ. Moderate splatter. NW-ewe. (DV-WA)
- + 1516 2/6 weak signal with man in JJ. Moderate splatter. NW ewe. (DV-WA)
- + 1330 2/7 weak signal with woman JJ. Moderate splatter. NW ewe. (DV-WA)
- 594 **JAPAN**, JOAK, Tokyo, NHK1. 1512 2/4 fair signal and //1503. NW ewe. (DV-WA)
- + 1319 2/7 fair signal with woman in JJ and moderate splatter. NW ewe. (DV-WA)
- + Weak audio just poking through the IBOC noise at 1425 2/8. (NP-AB)
- + Hrd at 1413 2/10 with talk. (BB-AZ)
- 603 **REP KOREA**, HLSA, Seoul. 1535 2/4 assuming the station with weak signal and music NW ewe. (DV-WA)
- 639 **CHINA**, Beijing, CNR1. 1531 2/4 fair to good signal with woman in CC. NW ewe. (DV-WA)
- 648 **RUSSIA**, Ussuriysk RFA. 1529 2/4 weak signal with KK service with moderate splatter. NW ewe. (DV-WA)
- 693 **JAPAN**, JOAB. Fair audio from 1405, and much steadier than 774. (NP-AB)
- + Hrd at 1414 2/10 with talk. (BB-AZ)
- 738 **TAHITI**, Papeete, R Polynesie. 1333 2/7 weak signal with woman in FF. Moderate splatter. W-SW ewe. (DV-WA)
- 747 **JAPAN**, JOIB. Virtually nothing at 1405 2/8, but about even with 774 by 1425, and was the best TP of the bunch by 1445. (NP-AB)
- 774 **JAPAN**, JOUB, Akita, NHK2. 1516 2/4 very weak signal when checking // with NHK2 on 1467. NW ewe. (DV-WA)
- + 1334 2/7 fair signal with woman in JJ. NW ewe. (DV-WA)
- + Fair audio at 1405 2/8 through to 1425, then faded out almost entirely for 5 minutes before coming back up. Was subject to long deep fades throughout my listening. (NP-AB)
- + 0939 2/9 good signal at times with man/woman in JJ. W-SW ewe. (DV-WA)
- + Hrd at 1414 2/10 with talk. (BB-AZ)
- 828 **JAPAN**, JOBB, Osaka, NHK2. 1523 2/6 weak w/ s/off music box chimes. NW ewe. (DV-WA)
- + 1344 2/7 weak signal with some splatter with woman in JJ. NW ewe. (DV-WA)
- + Traces of audio at 1405 2/8, gradually improving to 1430 peak. (NP-AB)
- + 0942 2/9 weak signal with moderate splatter with man in JJ. NW ewe. (DV-WA)
- + Hrd at 1415 2/10 with talk. (BB-AZ)
- 873 **JAPAN**, JOGB, Kumamoto, NHK2. 1345 2/7 weak signal with JJ talk NW ewe. (DV-WA)
- 972 **REP KOREA**, HLCA, Dangjin, KBS. 1347 2/7 weak signal with man in KK. NW ewe. (DV-WA)
- + Good KK male speech in and out at 1505 2/8; best TP signal of the morning
- <http://www.mediafire.com/?265723m4aoj4e25>. (GDB-WA)
- + Only a weak carrier at 1405 2/8. Reached audio level by 1427, for about 15 minutes. (NP-AB)
- + 0944 2/9 very weak signal with man in KK. NW ewe. (DV-WA)
- + Good KK YL speech at 1240 2/9 during music program <http://www.mediafire.com/?3ivrbbok4xq27u9>. (GDB-WA)
- 1053 **REP KOREA**, jammer. 1336 2/7 with fair signal and moderate splatter. NW ewe. (DV-WA)
- + Good buzz at 1250 2/9; dominated frequency until "sign-off" at 1400
- <http://www.mediafire.com/?j6j17mu83o55491>. (GDB-WA)
- 1287 **JAPAN**, JOHR, Sapporo, HBC. 1526 2/4 very weak signal with music. Followed by woman in JJ. NW ewe. (DV-WA)
- + 0928 2/9 weak signal with moderate splatter with man in JJ. W-SW ewe. (DV-WA)
- 1386 **JAPAN**, JOQC, Morioka, NHK2. 1520-1523 2/4 assuming the Northern JJ station with weak signal with music. // NHK 2 stations not heard. NW ewe. (DV-WA)
- 1386 **UnID**. 1520-1523 2/4 station under JOQC with nearly equal signal in Asian language. NW ewe. (DV-WA)
- 1422 **JAPAN**, JORF, Yokohama, RF R Nippon. 1517 2/4 weak with man in JJ. NW ewe. (DV-WA)
- 1467 **JAPAN**, JO??, NHK2. 1516 2/4 one of the low power JJ stations //774. NW ewe. (DV-WA)
- 1503 **JAPAN**, JOUK, Akita, NHK1. 1511 2/4 fair signal with woman in JJ. //594. NW ewe. (DV-WA)
- 1566 **REP KOREA**, HLAZ, Cheju, FEBC. Hrd at 1413 2/4 with talk. (BB-AZ)

- + 1459-1504 2/4 excellent signal (S-9+30 db) with woman in CC. NW ewe. Also heard barefoot on the Eton e100. (DV-WA)
- + 1513 2/6 fair signal with man in CC. NW ewe. (DV-WA)
- + Weak carrier at 1405 2/8, snippets of audio by 1425. (NP-AB)
- + Monster signal at 1310 2/9 during JJ Christian program (pegged the Ultralight signal display)
- <http://www.mediafire.com/?a1uanbufncn2yt9>. (GDB-WA)
- 1575 **THAILAND**, Rasom, VOA. 1505 2/4 good signal with man woman in Asian language. NW ewe. (DV-WA)
- + Fair-good YL speech and interval music around 1540 2/5; signals up and down as usual
- <http://www.mediafire.com/?o382d7918a7i0o6>. (GDB-WA)
- + 1502 2/6 weak signal with man in Asian language. NW ewe. (DV-WA)
- + Fair carrier earlier, bits of audio by 1425 2/8, but then quickly faded after 1430. (NP-AB)
- 1593 **CHINA**, Changzhou, CNR1. 1507 2/4 good signal with woman in CC. //6125. Moderate KOHI splatter. NW ewe. (DV-WA)

PAN AMERICAN DX ROUNDUP

- 660 **MÉXICO**, XEACB, Cd Delicias, Chih, La Lupe. 0659 2/2, a partial ID mentioning 98.9, then romantic music. <http://www.mexicoradiotv.com> is handy for listing FM //s and the only one shown on 660 is: XEACB + FM 98.9 3,000 1,000 as I have heard before. Ditto the IRCA Mexican Log. However, not 100% positive, since more and more FM simulcasts are being added, as Mexican AM stations are being pushed to FM and it's possible there could be two matching FM //s on any AM frequency. (GH-OK)
- 780 **UnID**. 1406 2/3, groundwave KSPI Stillwater OK can be sharply nulled, revealing weak SS music, fast SAH, and no WBBM, fading by 1408 when a possible ID came as "Radio Zeta?" Probably not as no such Mexican slogan mentioned anywhere and there are zero US SS stations on 780 per NRC AM Log. It's a bit late for the two Tamaulipans or the one Coahuilan, but there are none further west. As for "Zeta." maybe no station would call itself that now with unfortunate connotations? No, Cantú does show a couple on AM, 1260 and 1340. (GH-OK)
- 1090 **MÉXICO**, XEAU, Monterrey, NL. 1347 2/7, as I think I am hearing reactivated KAAV, fast SAH and SS takes over, soon 7:47 timecheck, "Milenio Radio, 103.7, volvemos" after ad break. XEAU, the usual one here. (GH-OK)

TROPICAL BAND DX ROUNDUP

- 2910 **MÉXICO**, XEVT, Villahermosa, Tab (3x 970). 1155 2/1, the best signal on the harmonic band is still XEVT, as previously IDed. By 1245 it's declined to JBA. Meanwhile I am chasing others on 2240, 2250, 2660. (GH-OK)
- + 0050 2/3 and 1215 check, JBA carrier, presumed XEVT, as previously IDed, am not spending long hours on this anymore with several other 2 MHz band harmonics to chase. (GH-OK)
- + 1221 2/5, with usual morning news magazine of alternating M & W voices, very poor but at least it's still there unlike 2240. (GH-OK)
- + 1224 2/6, SS talk still poorly audible from previously IDed XEVT. It seems I have an `exclusive` on this. (GH-OK)

THANKS TO THESE REPORTERS

- BB-AZ **BILL BLOCK**, Prescott Valley AZ
Drake R8
- DV-WA **DENNIS VROOM**, Kalama WA
DXing with JRC NRD 545, Drake R8B, EAC R-390. NW & W-SW ewe, Sky wire loop 753', Long wire 300', High Performance Active Whip (long wave)
- GDB-WA **GARY DeBOCK**, Puyallup, WA
C Crane SWP 7.5" Slider loopstick Ultralight + 8" Medium Wave FSL antenna
- GH-OK **GLENN HAUSER**, Enid OK
Mostly DX-398 with internal antenna only, or Sony SRF-59
- NP-AB **NIGEL PIMBLETT**, Dunmore AB
Perseus SDR, Wellbrook Phased Array

IRCA TECHNICAL COLUMN

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Ferrite Sleeve Loop Antennas— A Beginner's Guide
Perks, quirks and step-by-step instructions for DXing success
By Gary DeBock

Introduction: Graham Maynard's introduction of an innovative ferrite sleeve antenna early last year kicked off a torrent of experimentation in the Ultralight radio group, as experimenters quickly discovered the performance potential of the new design. Monster-sized loops (and multiple design



controversies) seemed to be the order of the day at first, as curious DXers of modest means and limited technical ability probably wondered whether the FSL antenna breakthrough would ever make any difference to them personally.

The FSL antennas are still expensive and somewhat tricky to construct, but after the design and construction (and donation) of several smaller-sized models, they are no longer extremely rare. Quite a few DXers can now enjoy the breakthrough performance offered by these new antennas—if they can learn a few operating tricks to maximize their performance.

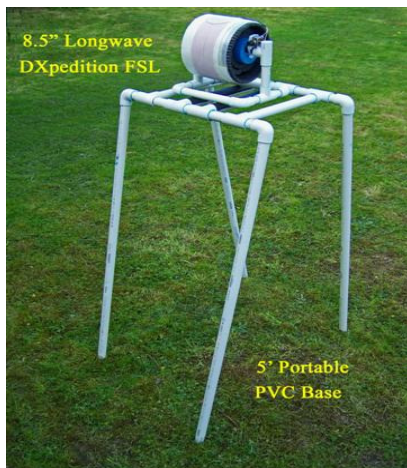
There is a definite learning curve involved in mastering these antennas, and no DXer should expect to become an expert overnight. Although the basic function of the FSL antenna is similar to that of an air core box loop, both the tuning sharpness and the inductive coupling distance (to the radio) are far more important for DXing success. FSL skill requires some serious practice. Attempting to use an FSL antenna like an air core box loop will never provide optimal results—and may even lead a puzzled DXer to wonder if the antenna is working at all (as even I wondered, after building my first FSL antenna model ☺)

FSL Antenna Advantages—and Disadvantages Essentially, the innovative antennas provide DXers with an all-new operating option—very high gain, low-noise reception in an extremely compact package. This new option comes with the side effects of serious cost and weight, however. The overall DXing value of an FSL antenna increases dramatically in extremely tight spaces such as ocean side cliffs, where other high gain antenna options are ruled out because of inadequate setup space. In these special environments the FSL antennas have already demonstrated superior transoceanic performance during both Ultralight radio and Perseus-SDR DXpeditions (in a new Broadband FSL form). The FSL's also excel at providing lower noise reception than much larger air core loops.



But such DXing performance comes with a price—both in component cost and antenna weight. Although several construction articles have been published, FSL antennas are still not commonly available. The cost of construction for competitive models can run well into hundreds of dollars, and although the FSL's will perform very well in back yards, open spaces and public parks, much cheaper air-core loop options are available for such wide open environments. Assuming that adequate real estate is available, obtaining high gain from cheap wire is usually preferable to obtaining it from costly ferrite.

Although indoor shacks are not ideal DXing environments for either FSL or air core loop antennas, the FSL's unique ability to deliver high gain reception from an extremely compact size can make these new antennas an attractive option for those indoor DXers without the space for 4 foot (or larger) box loops. The value tradeoff between the FSL's and air core loops is certainly an interesting one-- and each individual DXer must evaluate whether the FSL's unique advantages justify its higher construction cost.



Performance Basics After four major ocean coast DXpeditions and two Fall DX Seasons, the author has learned a few tricks on squeezing the best possible performance out of these new antennas. There are certain factors which will contribute to your success as an FSL antenna user, regardless of your model's size, shape or design. If at all possible, try to follow these basic ground rules:

- 1) Use the antenna away from any RF noise sources, and if possible, away from indoor house wiring. Best FSL antenna results usually are obtained outdoors, where the antenna's low-noise reception and sharp nulling capabilities can be fully appreciated. The antennas can still provide satisfactory DXing results indoors, but with some reduction in their overall capability related to the degree of RF noise and AC wiring runs existing in these environments.
- 2) Place the FSL antenna in an elevated position (above ground level) on a non-conducting surface like a wooden table, or a stone fence. Ideal results can be obtained by placing the FSL on an insulating surface

(like a custom PVC base) at least four feet high (see photo at left). This provides excellent DXpedition performance.

3) The FSL antennas cannot operate in the rain without some type of waterproofing system (a simple sheet of rubber, plastic rain hood or plastic tote enclosure). Without such protection the rain will interfere with the variable cap's operation, making tuning impossible (although rain will not permanently damage the antenna).

4) The variable capacitor in an FSL antenna tunes VERY sharply, especially on the high band frequencies. A vernier-drive variable capacitor helps greatly during this critical tuning process, along with a large-diameter tuning knob. Because of the extremely high-Q tuning system an FSL's tuning adjustment is razor-sharp, providing some attenuation of stations even 1 kHz away from its selected frequency. Although this high-Q tuning system can assist in reducing splatter from off-frequency pest stations, it also makes it more important to tune the antenna carefully for best results.

5) It is possible to tune an FSL antenna simply by listening for a weak station's audio signal boost when the antenna's frequency matches that of an inductively coupled portable radio, but depending on the portable radio model, this process may be tricky. The analog models usually couple up very well in this process, but digital models like the Tecsun DSP Ultralights (which have a delayed audio response as the Si4734 chip processes frequency changes) are among the trickiest. In such a situation, repeated practice is helpful, as well as the use of another portable with LED tuning lights (Sony ICF-2010, etc.) for the express purpose of tuning the FSL quickly to the desired frequency. After repeated practice, a skillful operator can tune an FSL simply by listening for the signal boost on a weak station-- even on the Tecsun DSP Ultralights.

6) The optimal inductive coupling distance between a portable radio and the FSL's sleeve coil is another razor-sharp adjustment, which should be practiced at first for best results, and also whenever a different portable radio is used with the FSL antenna.

7) FSL antennas can not only provide an inductively coupled boost when the portable radio is placed a few inches in front of the sleeve coil, but can also provide an equal or stronger DXing boost when the radio is placed a few inches to the left or right of the sleeve coil-- if the radio's loopstick is directly lined up with one of the ferrite rods (or bars) in the FSL. Both methods should be tried when a DX station is extremely weak, since either method may provide a superior signal boost. The FSL side coupling method usually provides better results with ferrite rod FSL's, as opposed to ferrite bar FSL's.

8) Matched-size plastic totes are extremely useful for carrying an FSL antenna outside the house, and can frequently double as a weatherproof DXing enclosure for the antenna and inductively coupled radio. All of the FSL models designed by the author have a matched-size plastic tote, which is commonly available at major stores. When filled with padding material such as pipe insulation, these totes can protect the FSL during shipping across the country-- and can also help it survive an unplanned "drop test" during DXpeditions. With Murphy's Law in mind, remember that plastic totes and padding material are dirt cheap—much cheaper than buying replacement ferrite rods.

9) One of the major advantages of FSL antennas (over air core loops) is lower noise pickup, especially when signals are very weak. If you have an RF noise source, rotating the FSL antenna to null the noise source is usually possible, and can even lead you to the direct source of the noise if you check the null bearings on the FSL at different locations.

10) The quality and depth of a signal null available on an FSL antenna is directly related to the quality of the RF environment in which it is used. For best results all stray conductors (house wiring, metal tables, aluminum gutters, etc.) should be removed far from the FSL antenna operating area. The quality of a signal null is also related to the FSL's design (i.e. the symmetry of its cylindrical ferrite sleeve, and the degree to which the variable cap size and variable cap wiring cause distortions in the symmetrical RF reception pattern). For the best possible pest station nulls, the use of a rotating support structure (i.e. Lazy Susan table) is recommended.



Matched-size DXpedition Totes...Ideal for Safe Transport



11) The most sensitive FSL models tend to be quite heavy, and require sturdy support structures during both DXpeditions and household usage. Almost all of the FSL's heavy weight comes from the multiple ferrite rods. Although all DXers dream of maximum weak-signal gain, set a reasonable FSL weight limit when planning a DXpedition involving dark ocean beaches, or unfamiliar ocean side cliffs. The weight of the 2012 "DXpedition" model (at left) was purposely limited to 16 pounds (7.3 kg) for antenna and operator survival at these risky venues.

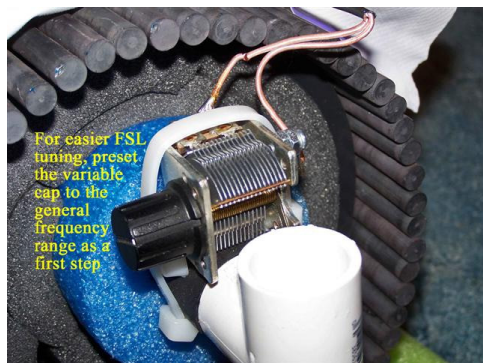
12) FSL antennas are sinister-looking creations which resemble rings of dynamite, submachine gun magazines or Gatling Guns. They tend to raise

the curiosity and anxiety level of strangers—particularly airport TSA agents. When planning a major DXpedition serious consideration should be given to shipping these FSL antennas through the mail in advance, directly to the motel near the DXpedition site. On the other hand, the subversive-looking nature of the antennas may work to the owner's advantage in keeping curious onlookers a safe distance away from his DXing site—especially when he is likely to be the only reasonably normal individual on an ocean side cliff around 0300 local time.

Step-by-Step Operating Instructions Before using your FSL antenna for DXing, ensure that the antenna is

placed on a non-conducting surface in an elevated position, and as far away as possible from RF noise sources and stray conductors (house wiring, aluminum gutters, etc.). Ensure that the FSL antenna's ferrite rods are broadside to the desired DX direction (i.e. the antenna's null position is when the ferrite rod edges are pointing directly toward a station). If you are DXing outdoors and a possibility of rain exists, make sure that you are prepared with some type of FSL waterproofing system (plastic tote, plastic rain hood or rubber cover).

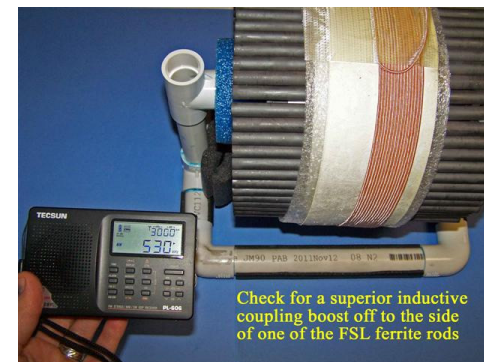
1) Tune in the desired weak station's frequency on any portable radio with a loopstick (i.e. not the Eton E1, or other such models with no loopstick). Best FSL antenna results are obtained when the DX station is extremely weak, or even inaudible on the portable radio.



2) For a "barefoot" portable radio (without any transplanted loopstick), initially place the portable radio so that the radio's loopstick is about 3" (75 mm) in front of the FSL coil (see photo above right). For radios with a transplanted 7.5" loopstick, initially place the radio about 7" (18 cm) in front of the FSL coil.

3) Prior to tuning the FSL's variable capacitor to provide an FSL signal boost to the portable radio, check to ensure that the FSL's variable cap is set at a position fairly close to the frequency of the portable radio (see photo above left). The variable cap's tuning plates can be observed to preset this approximate frequency (i.e. fully meshed for a very low band signal, half open for a mid-band signal, and close to fully open for a high-band signal), thereby saving time and effort in the next step.

4) VERY SLOWLY tune the FSL's variable cap until a POWERFUL signal boost is heard on the portable radio's tuned frequency. When this variable cap position is found, continue to SLOWLY adjust the variable cap in MINUTE movements around this position until optimal weak signal audio is received on the portable radio. This step tends to be easier on the portables without the Si4734 DSP chip (i.e. a little trickier on the Tecsun DSP Ultralights), but can be performed well on all portables with a little practice. If the portable radio is tuned to a frequency without any weak station, the FSL antenna will simply boost the background noise on the frequency (although the antenna will be set up for reception of any weak station that may fade in on the frequency).



NOTE: For DXpeditions and other situations where extremely rapid and accurate FSL tuning is essential, an alternative system of quickly tuning the FSL with an SSB spotting receiver's LED signal display is

recommended (see photo at right). This system can accurately tune in any FSL frequency within a couple of seconds. Details are provided in the "4A" step below.



4A) Using an SSB spotting receiver such as the Sony ICF-2010, check the strength of DX station carriers of interest using the receiver's pre-stored memory presets. When a desired DX station's SSB carrier is showing some strength and a gain boost from the FSL antenna is desired, place the SSB spotting receiver about 3" (75 mm) in front of the FSL coil. While observing the receiver's LED signal display, slowly tune the FSL's variable capacitor until the maximum number of signal LED's lights up on the SSB spotting receiver. The FSL antenna

is now accurately tuned to provide a gain boost to either the SSB spotting receiver, or to any other portable radio tuned to the DX station's frequency (i.e. Ultralight radio, if desired).

5) Once the FSL antenna's variable cap has been accurately tuned to provide its strongest inductive coupling boost to the radio, SLOWLY vary the portable's distance from the FSL coil to check if an even greater gain boost is available a few inches further from (or closer to) the coil. Because of the FSL's high-Q system this is another sharp adjustment, which will provide the antenna's best possible DXing gain boost when optimized. This optimal inductive coupling distance may vary with different portable radios, and changes in the tuned frequency.

6) An FSL antenna can occasionally provide a superior inductive coupling boost when the radio is held a few inches off to the side of the ferrite sleeve, as opposed to a few inches in front of the sleeve. This option works best on ferrite rod FSL models (as opposed to ferrite bar models). As an optional step, to check if this superior inductive coupling boost is available, hold the radio initially about 3" (75 mm) off to the side of one of the ferrite rods, so that the radio's internal loopstick is lined up with the ferrite rod. Then vary the inductive coupling distance a few inches to the left or right, to maximize the inductive coupling boost. If such a method provides a superior DXing boost, proceed to Step # 7—otherwise, simply return the radio to the optimal inductive coupling position determined in Step #5 above (in front of the FSL coil).

7) Once the antenna's variable cap and inductive coupling distance have both been optimized as described above, the FSL is prepared to provide its highest gain DXing boost on the frequency of choice. Ensure that these adjustments remain constant during any MP3 recording sessions (if desired).

8) To obtain the best FSL null on a pest station, first remove your portable radio from the FSL's inductive coupling area, and rotate the radio to find an accurate null bearing on the pest. If necessary, detune the pest station a few kHz until an accurate null bearing can be determined. Once this is found, place your portable radio down on a flat surface at this exact bearing (while it is nulling the pest station). Rotate the FSL antenna so that the ferrite rods (or bars) are all parallel to the portable radio's internal loopstick (usually, this direction is also parallel to the portable radio's front cabinet face). A "Lazy Susan" support table is very helpful in this process. Depending upon the various factors described in the "Performance Basics" Step #10 above, this signal null may be



either very deep, or very shallow. Best nulling results are obtained in outdoor environments, and when the FSL antenna's design minimizes disruptions to its reception pattern (by having both an extremely symmetrical ferrite sleeve, and the shortest possible wiring detours to a small-sized variable cap).

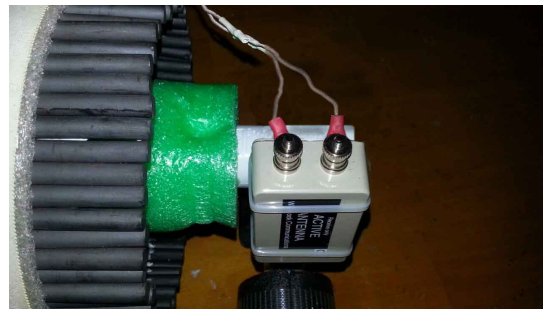
Summary The new FSL antennas have the potential to completely transform your hobby experience--particularly the thrill of chasing weak-signal DX in extremely narrow sites. The high-Q tuning system is unlike that of any other antenna, but the DXing performance advantage for those who can master it is also unprecedented. Whether your intention is to use the new antenna in a small indoor shack or at an extremely narrow ocean side cliff, the FSL will deliver astonishing weak-signal gain for its size—once you master its operation. The author sincerely hopes that this article will enable you to develop such FSL- DXing mastery--and the unprecedented hobby satisfaction that will result from it!

73 and Good DX,
Gary DeBock (in Puyallup, WA, USA)

Addendum- The New Broadband FSL Antenna

The Broadband FSL concept was the brainchild of Chuck Hutton, who believed that the antenna's single-optimized frequency design could be modified to allow Perseus-SDR DXers to enjoy the same ocean side cliff DXing that had proven so effective with Ultralight radios (with the additional benefit of spectrum capture). Chuck 's interest and involvement was essential to the project, which gained momentum after two successful Ultralight DU-DXpeditions to the Oregon cliffs this summer.

After my August 2012 DXpedition to the "Rockwork 4" cliff south of Cannon Beach, both Chuck and hometown buddy Guy Atkins



Cannon Beach) in October , who also reported excellent TP-DXing results with his Perseus.

developed versions of a Broadband FSL by removing the variable capacitor, and adding a high-gain amplifier between the FSL and Perseus-SDR to provide additional performance. Guy's version used the Wellbrook FLG100LN amplifier as an interface between a 7" FSL and his Perseus, and he reported excellent TP-DXing results with this configuration during a DXpedition trip to Oregon's Cape Perpetua in September. Guy's 7" Broadband FSL configuration was duplicated by Victoria DXer Walt Salmaniw during a DXpedition trip to Oregon's "Rockwork" cliff (south of

Guy's own description of his Broadband FSL system is pasted below, along with two photos showing the antenna's appearance (at right) and car roof-top setup arrangement (on the next page). The supreme attraction of this antenna is that a DXer can simply drive up to one of the cliff-side DXing sites and record spectrum on his Perseus SDR—without the need to set up any PVC poles, wires, or any other antenna components. It's enough to make even an Ultralight radio DXer envious!

From Guy Atkins (used with permission): With Gary's encouragement and supply of a regular tuned FSL, and Chuck Hutton's help with electrical formulas and initial impedance measurements, I was able to convert the FSL into a broadband (non-tuned) loop for capturing the entire band with Perseus SDR recordings. The antenna accompanied me to Oregon, secured inside a container strapped to the roof of our family's vacation vehicle. The 7-inch FSL was converted to broadband use by the removal of the tuning capacitor and the addition of a Wellbrook FLG100LN amplified Flag antenna module.

A photo of the modification is attached, along with a picture of the transport container. Tests at home showed that the antenna works perfectly well inside the box on the roof of the SUV... there's no need to brave the wind, cold, and possible rain outside on the side of the cliff! I did all my DXing from the comfort of the driver's seat, with the computer and Perseus receiver on the center console. I felt a bit guilty to be enjoying such comfort, knowing that Gary had braved the cold, damp, and darkness at this very same spot! Thanks for blazing the cliff DXing trail, Gary :^)

While still in Puyallup I was able to verify that the broadband FSL picks up TP carriers (738 Tahiti) equally well as a full size Wellbrook K9AY antenna. Based on this result I was fairly sure that the antenna would work well in an actual DXpedition situation.

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

Here we go with another edition of SportChannels IRCA! This issue, we wrap up our NHL network lists with the Northeast and Northwest Divisions, as well as the NHL Radio station list. The Northeast Division of the NHL's Eastern Conference features three of the "Original Six" NHL franchises: the Boston Bruins, Montreal Canadiens and Toronto Maple Leafs. Network flagships are in **boldface** type.

NATIONAL HOCKEY LEAGUE RADIO NETWORK (NHL Radio)

AM

550 WGR NY	930 KWOC MO	1330 CJYM SK	1520 WDMN OH
560 WEBC MN	940 CJGX SK	1370 WGHM MI	1550 KXEX CA
570 WTNT MD	960 KNEB NE	1380 KRKO WA	
600 WCHT MI	960 WEAV NY	1390 KXSS MN	FM
610 KARV AR	960 CFAC AB	1400 WCCY MI	92.7 KASR AR
610 WFNZ NC	980 WTEM DC	1400 WSLB NY	94.1 CIMG SK
610 KNML NM	1010 WQYK FL	1400 WWGE PA	96.1 KSLK CA
620 WDNC NC	1040 CKST BC	1430 WNAV MD	96.7 WXZO NY
660 WFAN NY	1170 KPUG WA	1450 KBUN MN	97.1 WXYT MI
690 CKGM QC	1200 CFGO ON	1450 WLEC OH	100.5 WTLX WI
780 KAZM AZ	1210 CFYM SK	1450 WMAJ PA	100.9 WJAW OH
790 KFGO ND	1230 KYVA NM	1450 WPSE PA	101.3 KARV AR
800 CHAB SK	1240 KRDO CO	1450 WSNO VT	104.3 KKFN CO
820 KCBF AK	1260 WWRC DC	1460 WBNS OH	104.5 WGFX TN
830 WEEU PA	1270 WQKR TN	1480 KRAE WY	105.5 KRDO CO
920 WMMN WV	1310 WTNZ PA	1490 WMOA OH	107.7 WTPL NH
930 WSFZ MS	1320 WTSJ VT	1520 WLUV IL	

WESTERN CONFERENCE – NORTHWEST DIVISION

CALGARY FLAMES Peter Maher, Mike Rogers, Pat Steinberg
Web: flames.nhl.com

960 CFAC Calgary, AB only

COLORADO AVALANCHE Marc Moser
Web: avalanche.nhl.com

AM

- 950 KRWZ Parker, CO**
- 1010 KSIR Brush, CO
- 1300 KCSF Colorado Springs, CO
- 1320 KOLT Scottsbluff, NE
- 1340 KTMM Grand Junction, CO
- 1400 KWUF Pagosa Springs, CO
- 1440 KRDZ Wray, CO

1450 KBFS Belle Fourche, SD
1510 KCKK Littleton, CO

FM

- 93.7 K229BS Lakewood, CO***
- 97.1 KZBR Alamosa, CO
- 98.9 KTYV Steamboat Springs, CO
- 100.5 KRSJ Durango, CO
- 104.3 KKFN Longmont, CO**

106.1 KNFO Basalt, CO

* Relays KCKK 1510

Syndicated by Altitude TV

EDMONTON OILERS Bob Stauffer, Jack Michaels

Web: oilers.nhl.com

630 CHED Edmonton, AB (flagship)

No radio network information available

MINNESOTA WILD Bob Kurtz, Tom Reid, Kevin Falness

Web: wild.nhl.com

AM

740 KVOX ND	1240 WMFG MN	1410 KRWB MN
790 KFGO ND	1250 KCUE MN	1440 KKXL ND
860 KNUJ MN	1260 KROX MN	1450 KATE MN
930 KSDN SD	1270 KWEB MN	1450 KBUN MN
1070 KVKK MN	1320 KOZY MN	1450 WELY MN
1170 KRUE MN	1340 KDLM MN	1460 KDWA MN
1230 KGHS MN	1340 KRBT MN	1460 KKAQ MN
1230 KWNO MN	1370 KSUM MN	1480 KAUS MN
1230 KWSN SD	1390 KXSS MN	1490 KQDS MN
	1400 KMHL MN	1570 KAKK MN
	1400 WBIZ WI	1570 KVTK SD

FM

93.9 KKRC MN
94.5 WELY MN
95.3 WXXZ MN
95.7 KMKO MN
100.3 KFAN MN
103.5 KUAL MN
104.9 WLMX WI

VANCOUVER CANUCKS John Shorthouse, Tom Larscheid

Web: canucks.nhl.com

1040 CKST Vancouver, BC (flagship)

No network information available

EASTERN CONFERENCE – NORTHEAST DIVISION

BOSTON BRUINS Dave Goucher, Bob Beers

Web: bruins.nhl.com

98.5 WBZ-FM Boston, MA only

BUFFALO SABRES Rick Jeanneret, Harry Neale

Web: sabres.nhl.com

AM

550 WGR Buffalo, NY	1490 WBTA Batavia, NY
950 WROC Rochester, NY	FM
1340 WKSJ Jamestown, NY	96.5 WCMF Rochester, NY
1410 WDOE Dunkirk, NY	101.5 WMXO Olean, NY

MONTREAL CANADIENS No English or French play-by-play personnel information available

Web: canadiens.nhl.com

690 CKGM Montreal, QC (English)

98.5 CHMP La Rive Sud, QC (French)

OTTAWA SENATORS

English: Dave Schreiber, Dean Brown, Gord Wilson

French: Nicolas Saint-Pierre, Alain Sanscartier

Web: senators.nhl.com

1200 CFGO Ottawa, ON (English)

94.5 CJFO Ottawa, ON (French)

TORONTO MAPLE LEAFS Jim Ralph, Joe Bowen, Don Dunleavy

Web: mapleleafs.nhl.com

590 CJCL Toronto, ON

1050 CHUM Toronto, ON

CJCL and CHUM are splitting play-by-play coverage this season.

With that, we conclude another edition of SportChannels! Any updates to the information presented here are welcome! The next edition will wrap up the NBA network lists. As I write this, pitchers and catchers are reporting to Spring Training in Florida, so baseball season is near! Soccer season is also near in the U.S.; the sport is known as "football" elsewhere in the world. (Our version of football is called "American Football" elsewhere). Before long, it'll also be (American) football season in Canada. I'll try to get broadcast information for Major League Soccer and the Canadian Football League. 73 and play hard!



ARRL Hamfest Calendar

As you may know (and I can say this from experience-EIC), a Hamfest is a great place to find good deals on new and used receivers, wires and cables for antenna projects, and other hobby-related needs. The American Radio Relay League has a Web page to help you find a Hamfest near your home QTH or while you're traveling to other parts of the country. You can search by Zip Code, select from Hamfests within 25, 50, 100 and 250 miles of your home QTH, as well as city and state. (Searching by ARRL division and section is only for the Ham-savvy, hi.) To find a Hamfest in near your home QTH, visit <http://www.arrl.org/hamfests-and-conventions-calendar> and plug in your location or Zip Code. You'll be able to find upcoming Hamfests in your local area.

IRCA Facebook Page

The IRCA's Facebook page is now online! This is a new feature of IRCA, featuring photos of transmitter sites (many of which provided by our Chairman, John C. Johnson), members' shacks (your Editor-in-Chief included) and plenty of information. If you have a Facebook page, enter "International Radio Club of America" into your Facebook search engine, then click the "Like" icon. Many thanks to Mike Sanburn (KG6LJU) and John C. Johnson for setting this page up.

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) and 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.



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e-mail: ircapres@yahoo.com (proposals/gripes)

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

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

Board of Directors: Phil Bytheway – phil_tekno@yahoo.com, Craig Healy – craig@craighealy.com, John C Johnson – John_Johnson@prodigy.net (Chairman), Patrick Martin – mwdxr@webtv.net, Bruce Portzer – bportzer@comcast.net, Mike Sanburn – mikesanburn@hotmail.com and Robert Wien – wienbob@aol.com

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Western Europe (group 3)	\$10	\$52	\$57
Australia/NZ/Japan (group 4)	\$10	\$52	\$57
Rest of world (group 5)	\$10	\$52	\$57

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

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

All dues and address changes go to: **IRCA, PO Box 60241, Lafayette LA 70596**

Pay electronically with PayPal – add \$1 to all prices above. Go to www.paypal.com, then send your dues to ircamember@ircaonline.org – contact Lynn Hollerman for more information.

Sample copies of DX Monitor are available. Along with your request, please include first class postage of: **45c** for USA addresses, **79c** for Canada and Mexico or **2-International Reply Coupons** each, for other countries. Send to: **IRCA, 414 SE 3rd St, Ocala FL 34471**. (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.

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