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FROM THE EDITOR-IN-CHIEF

This is the second soft-copy only edition of this volume, and our first since the Christmas season. While the DX season may be over, the AM broadcast band teems with DX most nights of the year. Make sure to report your DX to the appropriate editors! Letterama continues for another month and a half; you have until May 31 to get your entries in to Nancy Johnson. There's also some news on this end: WQQW 1510 Highland, IL now has new owners, and has returned to the air with a Classic Country format (Real Country). The station now identifies as "Madison County's Hometown Station".

NRC/WTFA CONVENTION – BRIDGEPORT, WV

Bill and Brenda Swiger would like to extend an invitation to all club members to come to West Virginia the weekend of August 3rd, 4th and 5th for the NRC Convention. This year the Days Inn and Suites at 112 Tolley Drive, Bridgeport WV will be the host hotel. Rooms can be reserved by calling 304-842-7371 before July 20, 2012. The cost of each room is \$79.94, and this includes the tax. The rooms are double or king and the cost can be split between however many people are in the room. Be sure to tell them that you will be with the National Radio Club to get this rate. The Worldwide TV-FM DX Association will also be joining us.

Registration will be \$45.00 for NRC members and \$25.00 for spouses or significant others. This will include the Saturday evening banquet and snacks and drinks for the hospitality room.

We are hoping to have some tours scheduled and there is also a festival that weekend with food and music that we can carpool to.

The Days Inn is right off the intersection of Interstate 79 and Route 50. There are shopping areas and restaurants within walking distance. The local airport is approximately 3 miles away with shuttle service. More information will follow with bus service, etc.

Registration and items for the auction can be mailed to:

Bill Swiger
1 Casey Lane
Bridgeport WV 26330-9454

If you have any questions or ideas please email me at ridgeradio@cebridge.net and I will try to answer them.

Hope to see you here in our beautiful "Almost Heaven" state of West Virginia.
 (From Ernie Wesolowski via Nancy Johnson and Phil Bytheway)

SPRING MIDWEST DX GET-TOGETHER – ROLLA, MO

The 2012 Spring Midwest Get-Together will be held the weekend of May 4-6 at the Budget Deluxe Motel, 1908 North Bishop Avenue in Rolla MO. The motel is located on the south side of I-44 (Historic Route 66) Exit 186 at the U.S. 63 junction, about 100 miles southwest of St Louis. This is the same location we had our first Midwest GTG in 1993.

Rolla is a college town of about 20,000 residents; home of KTTR 1490 and 4 FM stations owned by Results Radio. Also, there's 2 FM stations at the Missouri Science and Technology University campus (KMST 88.5 and KMNR 89.7), plenty of eating places within one half mile of motel. A possible tour of KFLW FM 98.9 in St. Robert, MO (near Fort Leonard Wood) about 25 miles down I-44, also a visit to KSMO 1340 and KKID 92.9 in Salem, MO.

We are getting the word out early so many will have a chance to plan for it in advance.

For those wanting to make a reservation the phone number is (573) 364-4488. Most of the activity will be Saturday May 5th. For more information contact John Tudenham at (417) 624-8058. or E mail:

jotud@yahoo.com

WESTERN DX ROUNDUP

Nancy Johnson – 265 Waterton Way – Billings MT 59102-7755
 E-mail: NancyJohnson@prodigy.net

WDXR DEADLINES: April 20, May 4, May 18, June 1, June 22, July 6. Please use Eastern Time.

REPORTERS FOR THIS ISSUE:

- (RB) **Rick Barton**-El Mirage, AZ desertmoon_dxshack@inbox.com
 Panasonic RF-2200, Hallicrafters S-77A, Hamarlund HQ-120X, HQ-200, SP-600
- (MF) **Martin Foltz**-Mission Viejo, CA martinfoltz@cox.net
 HQ-180A, 80" wire
- (GH) **Glen Hansen**-64985 Olson Rd.-Deer Island, OR 97054 gbhansen2@q.com
 Drake R8B, R-390A, TMC GPR-90, Hammarlund SP-600, 800' wire S/W, Kiwa loop
- (MR) **Mike Riordan**-2215 East 3300 South, Apt. B-8-Salt Lake City, UT 84109-2682
 Panasonic RFB-300, Grundig YB 400 PE

- 600 KOGO CA, San Diego 2/29 0105 heard "Six hundred CoGo" ID into talk show. Very weak with one unID far under, on R-390A with SW wire. (GH-OR)
- 820 WBAP TX, Fort Worth 2/25 2325 talk call-in show with ID. Heard only for a moment then lost to KGNW, using Drake with Kiwa. New! (GH-OR)
- 880 CHQT AB, Edmonton 2/25 2345 many "I News 880" ID's and news. Big & strong with only a faint unID far under on Hammarlund with E/W wire. (GH-OR)
- 900 KKRT WA, Wenatchee 3/8 0100 sports talk with mention of Lakeview(?), really weak & out there on Drake with Kiwa. (GH-OR)
- 930 KRKY CO, Grandby 3/25 0105 station ID into C&W music. Very strong signal, on day power? (MR-UT)
- KSEI ID, Pocatello 3/9 2330 in strong local-like with oldies and many "The Cruise" IDs, on Drake with Kiwa loop. (GH-OR)
- 1060 KDYL UT, South Salt Lake City 3/13-3/23 station used day power all night. (MR-UT)
- 1310 KFKA CO, Greeley 3/25 2305 what sounded like local spots, sinking then into the jumble, but "on KFKA" made it thru loud & clear for a second, on loop null of local KIHP, Mesa. (RB-AZ)
- 1380 KTKZ CA, Sacramento 3/20 0105 ID and ad for granite transformation, fair & tangled up with KRKO on Drake with Kiwa. (GH-OD)
- 1430 KYKN OR, Keiser 3/10 2230 talk snow with ID in a noisy mix with KLO and possibly KBRC, on Drake with Kiwa loop. Surprisingly not often heard. (GH-OR)
- 1550 KKOV WA, Vancouver 4/5 2240 Hugh Hewitt show, a couple local ads, "AM 15-50 and 1550talk.com" slogan and back to Hugh. Quickly gone at 2254, probably changed to night pattern/power. (MF-CA)
- 1600 KEPN CO, Lakewood 3/27 0216 some talk rising up out of the rumble, male announcer "on 1600 Sports Radio, The Zone." Fair, first log here. Came thru while sitting on 1600 with my SP-600 and backyard Slinky. (RB-AZ)
- KRKE NM, Albuquerque 3/24 1000 "KOOL 107.5 and AM 1600, KRKE, Albuquerque." Very good, heard in null of Cottonwood, AZ station with identical format. (RB-AZ)
- 1660 KXOL UT, Brigham City since 3/13 to ?? used day power all night. (MR-UT)
- 1680 KGED CA, Fresno 3/17 0945 "Love your neighbor as you love yourself" discussion from male & female co-hosts. Very strong and solid but got really fadey just before the hour. "Fresno" is what mostly made it through the ID. (RB-AZ)

Thank you to our reporters! Nancy 4/6 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

- [POB-IN] **Pat O'Brien**, Pekin, IN obie47165@yahoo.com
 Eton S350DL, Grundig indoor loop.

DOWN THE DIAL

- 1420 WKCW VA, Warrenton. 4-2 fair. 03:38 with religious programming. [POB-IN]
- 1480 WDJO OH, Cincinnati. 4-6 loud. 00:14 with oldies, "WDJO oldies all day long" [POB-IN]
- 1540 CHIN ON, Toronto. 4-6 poor. 00:38 with Chinese Homeland News. [POB-IN]
- WWGK OH, Cleveland. 4-6 fair. 00:19 with sports talk, Cleveland Indians review. [POB-IN]

25 YEARS AGO

April 11, 1987 issue of IRCA's "DX Monitor" ... **Doug Pifer** of Oceanside, CA mentioned KWOW 1600 changed calls to KMNY however still IDed as "16 K-WOW" except for legal IDs ... **Ernest Cooper** of Provincetown, MA commented about DXing in the 1930s ... **Gary A. Heisey** of Osterburg, PA told about his neighbors. Everytime they had a problem with their TV they blame his antenna wire.

OPEN MIKE

The season is coming to an end. This column was typed 4-7-12. 73, John

EASTERN DX ROUNDUP

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

Deadlines: Saturdays 8 AM!!

- (KK-VA) Kraig Krist **STARS OF THE WEEK**
Manassas, VA.
Winradio G33DDC SDR rx with homemade 134 foot multiband antenna running NW to SE.
- (IEN-GA) Ira Elbert New III
Watkinsville, GA
Pioneer DEH - 7300BT In-Dash Audio System

LOGGINGS

- 560 FL WQAM Miami 3/10 0255-0655 Mixing with WFRB, R. Rebelde, talk and religious singing. "Pro Football Weekly". 0300 "... Miami Fort Lauderdale (KK-VA)
- 570 FL WTBN Pinellas Park 3/10 0255-0655 EST. Mixing with WSPZ, other talk and Cuba. 0500 "... Tampa Bay's Christian talk 5-70 WTBN Pinellas Park.". (KK-VA)
- 580 FL WDBO Orlando 3/10 0255-0655 Mixing with WHP, WGAC, c&w and Cuba. 0435 "WDBO weather radio shows... it's 67 and 69 at FM 96 point 5. News talk WDBO central Florida's news, weather & traffic... you can depend on it." (KK-VA)
- 610 VA WXVA Winchester 3/10 0255-0655 Mixing with mostly several Cuban stations and English talk. WXVA with combination of c&w and oldies. 0619 "The songs you love WXVA". 0623 promo for WXVA coupon corner. (KK-VA)
- 620 FL WDAE St. Petersburg 3/10 0255-0655 Mixing with WRJZ and Cuba. 0334 "... from 9 till noon on 6-20 WDAE 'The Sports Channel'.". (KK-VA)
- TN WRJZ Knoxville 3/10 0255-0655 Mixing with WDAE and Cuba. 0327 ET OM "I'm chief meteorologist... for joy 6-20 WRJZ". (KK-VA)
- 640 GA WGST Atlanta 3/10 0255-0655 Mixing with WXSM, religious talk and Cuba. 0300 "News talk AM 640 & 92.3 FM WGST. The talk of Atlanta" into Fox news. (KK-VA)
- TN WXSM Blountsville 3/10 0255-0655 EST. Mixing with WGST, religious talk and Cuba. 0530 "I'm Lenny Barto. You are listening to 6-40 WXSM. Home of the ECSU basketball." (KK-VA)
- 680 GA WCNN North Atlanta 3/10 0255-0655 Mixing with WPTF and WCTT. 0303 "ESPN 'The Fan' now on FM 93 point 7.". (KK-VA)
- KY WCTT Corbin 3/10 0255-0655 Mixing with WPTF and WCNN. WCTT with oldies. 0556 "Providing you with the best of the big band sound. The great 68 WCTT" (KK-VA)
- 780 IL WBBM Chicago 3/10 0255-0655 Mixing with WIIN, WAVA, Spanish singing, other Spanish and other singing. 0305 "WBBM news time 2 oh 5. Good morning. It is Saturday March the 10th. I'm David Roe and WBBM on AM is about to leave the air for maintenance so we invite you to switch now to news radio on 1 oh 5 point 9 FM where we'll continue to deliver all the news until 7-80 AM returns to the air later this morning. That's 1 oh 5 point 9 FM for all the latest and of course you can always use our live stream and listen on your computer or hand-held device on CBS Chicago dot com. For now we're signing off news radio 7-80 WBBM Chicago (KK-VA)
- MS WIIN Ridgeland 3/10 0255-0655 Mixing with WBBM, WAVA, Spanish singing, other Spanish and other singing. 0617 "US 96 point 3 America's music. Great country music. US 96 point 3 country.". (KK-VA)
- 890 VA WKNV Fairlawn 3/10 0255-0655 Mixing with WLS, Spanish and singing. 0633 "Joy AM 8-90 WKNV Fairlawn. Today's southern Gospel... station now begins its broadcast day..". (KK-VA)

- 980 FL WRNE Gulf Breeze - 03/23 2000 - Contemporary R & B, and TOH ID. Good & clean I that faded a bit after the ID. "This is WRNE, Gulf Breeze, Pensacola." (IEN – GA)
- 1200 NC WSML Graham 3/10 0255-0655 Mixing with WOAI, religious singing, oldies and other singing. WSML with ESPN radio. 0630 "Where ever you are triad sports coverage is there. The Triad Sports Network on AM 12 hundred, 12-30 and 13-20.". (KK-VA)
- 1270 TN WLIK Newport 3/10 0255-0655 Mixing with Spanish, other oldies, singing and other singing. WLIK w/oldies. 0304 "Rockin the Smokies with those favorite oldies you'll want to hear again & again on Smokies oldies WLIK.". WLIK jingle (KK-VA)
- 1390 VA WKPA Lynchburg 3/10 0255-0655 Mixing with WFBL, singing, Fox Sports, ESPN and other talk. 0558 "... write in Brother Paul.. be sure to mention WKBA...". WKPA is // WKBA on 1550 kHz" (KK-VA)
- 1400 MI WCCY Houghton 3/10 0255-0655 Mixing with WVRC, WBBB, WKPT, WINC, WHGB and other singing. 0316 "14 hundred AM WCCY all the classic hits... WCCY.". (KK-VA)
- PA WHGB Harrisburg 3/10 0255-0655 Mixing with WVRC, WCCY, WKPT, WINC, WBBB and other singing. Typical ESPN radio programming. 0430 "95 3 and 14 hundred your leader for sports.". (KK-VA)
- WV WVRC Spencer 3/10 0255-0655 Mixing with WCCY, WBBB, WKPT, WINC, WHGB and other singing. WVRC with bluegrass songs. 0605 "14 hundred...this is Tim Bach WVRC radio forecast (KK-VA)
- WV WBBB Wheeling 3/10 0255-0655 Mixing with WVRC, WCCY, WKPT, WINC, WHGB and other singing. 0320 "...with the hits WBBB.". (KK-VA)
- 1450 OH WMOH Hamilton 3/10 0255-0655 Mixing with WWXL, WJPA, WLAF, WVAX, c&w and Yahoo sports. 0403 "...14-50 'The Ticket' online. Log onto WMOH dot com... Twitter and Facebook. Become a fan. WMOH 14-50 'The Ticket' (KK-VA)
- PA WJPA Washington 3/10 0255-0655 Mixing with WWXL, WMOH, WLAF, WVAX, c&w and Yahoo sports. 0320 "March madness on WJPA AM 14-50.". WJPA with oldies. (KK-VA)
- TN WLAF La Follette 3/10 0255-0655 Mixing with WWXL, WJPA, WMOH, WVAX, c&w and Yahoo sports. 0609 "We're glad you could be along this Saturday morning... Jordanaires... on 14-50 WLAF... Saturday morning... show (KK-VA)
- 1470 PA WFAR Farrell 3/10 0255-0655 Mixing with WJDY, talk, Spanish singing and Gospel singing. WFAR with oldies. 0256 "Breaking the... 9-40 WGRP" into Elvis song. Bell chimes at 0301. "Now another hour of the songs you grew up with. 9-40 WGRP and 14-70 FAR[sic]". I call WGRP 814 337-8440 and get confirmation. Currently IDing as "FAR" on 1470. Requesting "WFAR" from FCC (KK-VA) (Nice to see the WFAR calls return to Farrell. I was raised just down the road from their original location. Last time I was there, the station had moved and the site replaced by a cemetery- ed)
- 1490 OH WERE Cleveland Heights 3/10 0255-0655 Mixing with WCVB, ESPN, singing, other singing and Fox sports. 0353 "... first caller... AM 14-90 WERE...online too.". 0429 "News talk 14-90 WERE.". (KK-VA)

UN-IDEN

- 1600 ?? ???? UnID 3/10 0255-0655 Mixing with WWRL, WPDC, WAAM, Fox sports, singing, oldies, religious singing, c&w and Cuba. 0429 "We're the hometown radio station for London Bloom Heights Barbourville and Union College. We're Barbourville's hometown radio station WYWY AM 9-50 and FM 93 point 3.". (This is WRSL CORBIN they // 950 WYWY :Gospel 950 AM" - ed) (KK-VA)

Best to all... fresh 4/7 0830

DX WORLDWIDE – WEST / TROPICAL BAND DX

Patrick Martin – PO Box 843 – Seaside OR 97138
E-mail: mwdxer@webtv.net all times UTC

TRANS PACIFIC DX ROUNDUP

- 153 **RUSSIA**, R Rossii, Komosomolsk. 1255-1300 3/31. Good signal with talk and classical music. 6 pips at 1400 and R Rossii ID. (DV-WA)

- + Poor with YL Russian talk 1317 4/2. (GD-WA)
- + 1308 4/5. Fair signal with man in RR. (DV-WA)
- + 1306 4/6. Fair signal with mentions of R Rossii. (DV-WA)
- + 1225-1230 4/8. Excellent signal with American rap music and other modern music. Static crashes in background. (DV-WA)
- 180 **RUSSIA**, R Rossii. 1250-1259 4/6. Fair signal with talk and music. (DV-WA)
- + 1234-1235 4/8 good signal with woman singing pop music. (DV-WA)
- 189 **RUSSIA**, R Rossii. 1235-1237 4/8. Fair signal with man in RR after above song. (DV-WA)
- 279 **RUSSIA**, R. Rossii, Yuzhno-Sakhalinsk. Fair with Chubby Checker's "Let's Twist Again" 1315 4/2. (GD-WA)
- + 1301-1304 4/5. Weak signal with man in RR. (DV-WA)
- + 1307 4/6. Good signal with man in RR. (DV-WA)
- + 1238 4/8 weak signal with woman singing. (DV-WA)
- 531 **UnID**. 1314 4/6. Near audio carrier here, but nearby HARS on 530 hurts changes of reception. Japan? (DV-WA)
- 558 **JAPAN**, Kobe, JOCR. 1249 4/8. Amusing the station with woman in JJ and a lot of splatter. Weak signal. (DV-WA)
- 567 **JAPAN**, Sapporo, JOIK. 1340 3/31. Fair signal with music and woman in JJ. Moderate splatter. (DV-WA)
- + 1333-1334 4/6. Weak to fair signal with woman in JJ. (DV-WA)
- 576 **UnID**. 1340-1343 4/5. Fair signal at times. Gospel song by woman then signal faded out at end of song. Not // to the NHK1 network. First time anything heard on this channel. Back again at 1347 with woman singing non gospel tune. 1348 Jazz tune. 1451 man speaking in ? Signal then faded out. Signal best on SW ewe, but heard on other 3 antennas. (DV-WA) (Dennis, sounds like Bible Radio-New Zealand – PM)
- 594 **JAPAN**, Tokyo, JOAK, NHK1. 1355 3/28. Weak signal with man in JJ. (DV-WA)
- + 1330 3/31. Weak with splatter with woman in JJ. Good signal at 1337. (DV-WA)
- + Good with YL JJ conversation 1335 4/2 (GD-WA)
- + 1309 4/5. Good signal with two men in JJ. (DV-WA)
- + 1300-1304 4/6. Fair to good signal with man/woman in JJ. (DV-WA)
- + 1239 4/8. Good signal with some splatter with two men in JJ followed by song. (DV-WA)
- 603 **REP KOREA**, Seoul, HLSA. 1341 3/31. Fair signal with music. (DV-WA)
- + 1308 4/6. Near fair signal with domestic splatter hampering signal. (DV-WA)
- + 1252 4/8. Weak signal with music. (DV-WA)
- 666 **JAPAN**, Osaka, JOBK, NHK1. 1326-1327 4/5. Man & woman in JJ //594 (DV-WA)
- + 1311 4/6. Fair signal for a few seconds with JJ talk, then faded out. (DV-WA)
- 693 **JAPAN**, Tokyo, JOAB, NHK2. 1318 4/5. Good signal with man in JJ. (DV-WA)
- + 1312 4/6. Good signal with man in JJ. (DV-WA)
- 729 **UnID**. 1313 4/6. Weak with a lot of splatter, cannot make out language. Man and woman talking. (DV-WA)
- 738 **TAHITI**, R Polynesie, France International. 1348 3/30. Weak briefly with music then faded out. (DV-WA)
- + 1318 4/6. Good signal at times with music. Tons of splatter from KCBS. (DV-WA)
- + 1242 4/8. Fair and battered in splatter from KCBS. Best on SW ewe. Music. (DV-WA)
- 738 **TAIWAN**, BEL2, Penghu. Poor-fair with Chinese music 1329 4/2. (GD-WA)
- 774 **JAPAN**, Akita, JOUB, NHK2. 1344 3/28. Fair signal at times with a lot of domestic splatter. (DV-WA)
- + 1346 3/31 fair signal with some splatter with man in JJ. (DV-WA)
- + Fair in KXL splatter with JJ male talk 1343 4/2. (GD-WA)
- + 1319 4/5. Good signal //693. (DV-WA)
- + 1320 4/6. Start of EE Conversation program. Good signal. (DV-WA)
- + 1243 4/8. Fair signal with man in JJ. (DV-WA)
- 828 **JAPAN**, Osaka, JOBB, NHK2. 1346 3/28. Fair with woman in JJ. (DV-WA)
- + 1345 3/31. Weak signal with man in JJ. (DV-WA)
- + 1320-1322 4/5. Poor signal. Surprise that this station poor while other JJ powerhouse station had good signals. 1323 signal up to fair. (DV-WA)
- + 1321 4/6. Good signal, much better than yesterdays signal. //774. (DV-WA)
- 891 **AUSTRALIA**. 1358 3/28. Weak audio, sounds like man in EE. 5AN? (DV-WA)
- + Close to audio carrier, but Idaho station KDJQ signal is too strong. I can lower KDJQ signal with the sky wire loop, but it lowers the DU to a lower carrier level. (DV-WA)
- 936 **UnID**. 1343-1344 4/6. Level 5 carrier near audio, but not quite there. (DV-WA)
- 1422 **JAPAN**, Yokohama, JORF. 1325 4/6. Fair signal with man in JJ. (DV-WA)
- 1500 **HAWAII**, Honolulu, KHKA. 1355-1402 3/30. Alone on channel on SW EWE. Many ESPN ID's. Missed some of the call letters at 1400, but heard Honolulu after call ID. Signal ranged from weak to good. (DV-WA)
- + 1400 4/5. Good signal atop channel with ID. ESPN programming. (DV-WA)

- 1512 **AUSTRALIA?** Newcastle, NSW, 2RN. 3/31. Talk and some music along with splatter, best on SW ewe. (DV-WA)
- 1566 **REP KOREA**, Cheju, HLAZ. 1315-1318 3/30. Fair to good at times with rapid fading signal. (DV-WA)
- + Weak with talk at 1333. 3/31 (DV-WA)
- + Fair with religious music at 1339 4/2. (GD-WA)
- + 1327 4/6. Good signal with man in JJ. Nothing yesterday here. Heard on all four antennas this morning. (DV-WA)
- + 1246 4/8. Fair signal with religious music followed by man in JJ. (DV-WA)
- 1566 **UnID**. DU station under HLAZ. Man heard talking under HLAZ women speakers. Bits of EE at 1341 with man talking, weak signal. Soon faded out. (DV-WA)
- 1575 **THAILAND**, VOA. 1352 3/31. Weak with talk. (DV-WA)

TROPICAL BAND DX ROUNDUP

- 2580 **DPR KOREA**, V of Korea. 1200 4/4. VG, with male in KK. Haven't hrd this one in a while. Very regular here, up until a couple months ago. Patriotic instrumental music before the hour. (RB-AZ)
- 3925 **JAPAN**, R Nikkei. 1245 4/4. Very strong at this session with JJ pop music pgm. Music varies here from this to classical, but today, J-Pop. (RB-AZ)
- 5995 **AUSTRALIA**, R Australia. 1511 4/4. Female presenter, interview type program, good, but fading on dying band as midday approaches here. (RB-AZ)

THANKS TO THESE REPORTERS

- DV-WA **DENNIS VROOM**, Kalama WA
DXing with JRC NRD 545, SW ewe + Sky wire loop 753', Long wire 225' + High Performance Active Whip
- GD-WA **GARY DeBOCK**, Puyallup WA
Tecsun PL-380 + 8" Longwave and Medium Wave FSL's
- RB-AZ **RICK BARTON**, El Mirage, AZ
Panasonic RF-2200, Hallicrafters S-77A, Hammarlund HQ-200-X, Outdoor Slinky

DX WORLDWIDE – EAST

Vincent Ferme

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all times UTC

*** TRANS-ATLANTIC LOGS ***

- 531 **ALGERIA** Jil FM, F'kirina Wilaya d'Oum El Bouaghi, FEB 23 2300 - Jil FM ID's by woman, Arabic rock; good. [Connelly*O-MA]
- 549 **ALGERIA** Jil FM Les Trembles 21:50 UTC Mar 30 Arabic music, ID. [AW-BH]
- 549 **ALGERIA** Jil FM, Les Trembles, FEB 1 2300 - US blues-rock then man in Arabic; good. [Connelly*Y-MA]
- 558 **IRAN** Radio Farhang, Gheslagh 00:49 UTC Apr 3 Chants. [AW-BH]
- 558 **SPAIN** RNE R.5 synchros, FEB 23 2300 - woman in Spanish // 774; poor. [Connelly*O-MA]
- 567 **SYRIA** Radio of Syrian Arab Republic, Damascus 00:54 UTC Apr 3 Chants, Arabic talk **NEW** (AW - Overall). [AW-BH]
- 567 **SPAIN** RNE R.5 synchros, FEB 23 2300 - woman in Spanish // 774; poor. [Connelly*O-MA]
- 576 **CANARY ISLANDS** // SPAIN RNE R.5 synchros, MAR 7 2259 - male vocal // 621; poor. [Connelly*Y-MA]
- 585 **SPAIN** RNE R.1, Madrid, FEB 1 2337 - RNE net talk; fair. [Connelly*Y-MA]
- 595 **MOROCCO** RTM 1 & 2, Oujda, FEB 23 2329 - male Arabic vocal, orchestra; poor. [Connelly*O-MA]
- 603 **FRANCE** France Info, Lyon-Tramoyes, FEB 23 2300 - France Info theme music, man in French; fair. [Connelly*O-MA]
- 603 **SPAIN** RNE R.5 synchros, FEB 1 2337 - RNE net talk; fair. [Connelly*Y-MA]
- 612 **MOROCCO** RTM 1 & 2, Sebba-Aioun, FEB 1 2338 - Arabic music; fair. [Connelly*Y-MA]
- 621 **CANARY ISLANDS** // SPAIN RNE R.1 synchros, FEB 1 2335 - RNE net talk; good. [Connelly*Y-MA]
- 639 **CZECH REPUBLIC** Cesky rozhlas, Liblice, FEB 23 2300 - anthem music; over Spain. [Connelly*O-MA]
- 639 **SPAIN** RNE R.1, La Coruna et al., FEB 1 2335 - RNE net talk; poor in 640 Cuba slop. [Connelly*Y-MA]
- 657 **SPAIN** RNE R.5, Madrid, FEB 23 2300 - // 774 with news by woman in Spanish; to fair peak through WFAN slop. [Connelly*O-MA]
- 666 **PORTUGAL** Antena 1, various 00:54 UTC Apr 3 Portuguese music, talk. [AW-BH]
- 675 **NETHERLANDS** R. Maria, Lopik, FEB 23 2329 - classical music; fair. [Connelly*O-MA]
- 675 **NETHERLANDS** R. Maria, Lopik 2:20 UTC Apr 3 Dutch religious talk & music (Very Strong). [AW-BH]
- 684 **ALGERIA** Alger Chaîne 1 Reggane 00:55 UTC Apr 3 Arabic talk & music (mixing with Spain)

NEW (AW-Overall). [AW-BH]

684 **SPAIN** RNE R.1, Sevilla, FEB 1 2335 - RNE net talk; good peak over WRKO slop. [Connelly*Y-MA]

693 **ENGLAND** BBC 5 Live, Droitwich 1:20 UTC Apr 3 talk about incident at sea // 909 (Very Strong). [AW-BH]

693 **UNITED KINGDOM** BBC R. 5, Droitwich et al., FEB 23 2301 - English newstalk, slight echo. [Connelly*O-MA]

711 **FRANCE** France Info, Rennes, FEB 23 2300 - France Info theme music; just poking through static crashes and WOR slop. [Connelly*O-MA]

711 **FRANCE** France Info, Rennes-Thourie 00:49 UTC Apr 3 man in French. [AW-BH]

738 **SPAIN** R. Nacional, Palau de Plegamans 00:48 UTC Apr 3 woman in Spanish (good). [AW-BH]

738 **SPAIN** RNE R.1, Barcelona, FEB 1 2335 - RNE net talk; to fair peak. [Connelly*Y-MA]

747 **CANARY ISLANDS** RNE R.5 synchros, FEB 23 2301 - woman in Spanish; poor. [Connelly*O-MA]

747 **NETHERLANDS** R.5, Zeewolde (Flevoland), FEB 23 2331 - oldies show with "Little Children" by Billy J. Kramer, then "Magic Touch" by the Platters; good. [Connelly*O-MA]

756 **GERMANY** Deutschlandfunk, Braunschweig & Ravensburg, FEB 23 2300 - electronic sound, Deutschlandfunk ID, pips, German news by woman; fair. [Connelly*O-MA]

756 **GERMANY** Deutschlandfunk, various 2:11 UTC Apr 3 Classical music, German talk. [AW-BH]

765 **IRAN** IRIB1 Chahbahar 00:48 UTC Apr 3 Middle eastern music, Farsi talk. [AW-BH]

774 **SPAIN** RNE R.1 synchros, FEB 1 2335 - RNE net talk; fair. [Connelly*Y-MA]

783 **MAURITANIA** R. Mauritanie, Nouakchott, FEB 1 2335 - man & woman Arabic; fair. [Connelly*Y-MA]

783 **MAURITANIA** R. Mauritanie, Nouakchott 22:02 UTC Mar 28 woman with news in Arabic. [AW-BH]

837 **CANARY ISLANDS** // **SPAIN** COPE synchros, MAR 7 2300 - echoey Spanish news by man; over presumed France. [Connelly*Y-MA]

783 **MAURITANIA** R. Mauritanie, Nouakchott 00:47 UTC Apr 3 Arabic talk & music. [AW-BH]

792 **FRANCE** France Info, Limoges-Nieul 1:15 UTC Apr 3 man in French talk. [AW-BH]

810 **SCOTLAND** BBC Scotland, Burghead 00:47 UTC Apr 3 "Get On" music program , ID. [AW-BH]

819 **MOROCCO** RTM A, Rabat 2:20 UTC Apr 3 Arabic talk, Chants. [AW-BH]

819 **SPAIN** R. Euskadi, San Sebastian 1:20 UTC Apr 3 two men in Spanish. [AW-BH]

837 **CANARY ISLANDS** COPE Las Palmas 21:52 UTC Mar 30 Spanish talk & music. [AW-BH]

837 **SPAIN** COPE Sevilla 00:37 UTC Apr 3 Spanish commentary. [AW-BH]

855 **SPAIN** R. Nacional, Murcia 00:30 UTC Apr 3 woman in Spanish. [AW-BH]

855 **SPAIN** RNE R.1 synchros, FEB 1 2335 - RNE net talk; fair. [Connelly*Y-MA]

864 **FRANCE** France Bleu, Villebon-sur-Yvette, FEB 23 2301 - woman in French, jingle, pop vocal; fair. [Connelly*O-MA]

864 **FRANCE** France Bleue, Villebon-sur-Yvette 1:38 UTC Apr 3 French pop music & talk. [AW-BH]

873 **SPAIN** SER synchros, FEB 23 2259 - Spanish teletalk; poor over second station that sounded Slavic. [Connelly*O-MA]

882 **ENGLAND** BBC Wales, Washford 1:22 UTC Apr 3 talk about moviemaking. [AW-BH]

900 **IRAN** IRIB1 Tehran 1:17 UTC Apr 3 Middle Eastern music, Farsi talk. [AW-BH]

909 **ENGLAND** BBC 5 Live, Moorside Edge 3:06 UTC Apr 3 News in English. [AW-BH]

909 **ROMANIA** Romania Actualitati 00:32 UTC Apr 3 female vocalist in Romanian (mixing with England // 855. [AW-BH])

909 **UNITED KINGDOM** BBC R.5 synchros, FEB 24 0000 - sport-related news item. [Connelly*O-MA]

917 **NIGERIA** R. Gotel, Yola, MAR 7 2300 - big carrier; stronger than adjacent 918 Spain but not much audio. [Connelly*Y-MA]

936 **IRAN** IRIB1 Urumiye 00:46 UTC Apr 3 man in Farsi. [AW-BH]

936 **SPAIN** RNE R.5 synchros, FEB 23 2259 - music // 774; poor. [Connelly*O-MA]

936 **unID** ?, MAR 7 2302 - strong blank (or barely-modulated) carrier .. Morocco? [Connelly*Y-MA]

945 **FRANCE** France Info, Toulouse, FEB 1 2337 - France Info net talk; fair. [Connelly*Y-MA]

945 **FRANCE** France Info, Toulouse - Muret 00:33 UTC Apr 3 news in French (Good). [AW-BH]

954 **QATAR** QBS Al Arish 00:11 UTC Mar 28 Lively commentary in Arabic. [AW-BH]

954 **SPAIN** Onda Cero, Madrid, FEB 1 2337 - Spanish talk; noisy. [Connelly*Y-MA]

963 **FINLAND** China Radio Relay, Pori 3:06 UTC Apr 3 Russian talk (Strong). [AW-BH]

963 **PORTUGAL** Radio Sim, Seixal, FEB 23 2300 - man in Portuguese; poor to fair. [Connelly*O-MA]

981 **ALGERIA** Alger Chaîne 2, Ouled Fayet 1:23 UTC Apr 3 Arabic talk & music (good). [AW-BH]

999 **MOLDOVA** R. Pridnestrovnye 2:04 UTC Apr 3 man in Russian, ID (Very Strong). [AW-BH]

999 **MOROCCO** RTA Tanger 00:46 UTC Apr 3 Arabic talk (good). [AW-BH]

999 **SPAIN** COPE Madrid 1:38 UTC Apr 3 woman with news in Spanish. [AW-BH]

999 **SPAIN** COPE synchros, FEB 23 2300 - man said "buenas noches", talk about upcoming program; good over WINS IBOC. [Connelly*O-MA]

1008 **CANARY ISLANDS** Punto Radio, Las Palmas, MAR 7 2258 - non-SER Spanish talk; fair, in WINS slop. [Connelly*Y-MA]

1008 **NETHERLANDS** GrootNieuws Radio, Zeewolde 1:27 UTC Apr 3 Religious songs, Dutch talk (Good). [AW-BH]

1017 **SPAIN** R. Nacional, various 1:27 UTC Apr 3 Spanish talk by man. [AW-BH]

1026 **IRAN** IRIB1 Tabriz 00:58 UTC Mar 28 Chants. [AW-BH]

1026 **SPAIN** SER synchros, FEB 23 2301 - bits of Spanish talk; in slop. [Connelly*O-MA]

1035 **PORTUGAL** Star FM, Belmonte 1:25 UTC Apr 3 Beatles song, ID. [AW-BH]

1044 **SPAIN** SER San Sebastian, Monte Igueldo 00:33 UTC Apr 3 news in Spanish (Strong). [AW-BH]

1053 **LIBYA** Libya TV Audio, Tripoli 1:25 UTC Apr 3 Arabic music, talk (good). [AW-BH]

1053 **LIBYA** Libyan Jamahiriya, Tripoli, FEB 23 2259 - Arabic vocal, string music; dominant. [Connelly*O-MA]

1062 **IRAN** IRIB Kerman 00:25 UTC Apr 3 man in Farsi talk (good). [AW-BH]

1080 **MOROCCO** (t) RTM Q Casablanca 22:44 UTC Mar 27 Arabic music. [AW-BH]

1088 **ANGOLA** R. Nacional, Mulenvos, MAR 7 2301 - bits of talk over static; stronger than 1089 at the time. [Connelly*Y-MA]

1089 **ENGLAND** Talksport Radio, Brookmans Park 1:26 UTC Apr 3 talk about NCAA Championship. [AW-BH]

1089 **UNITED KINGDOM** TalkSport synchros, FEB 23 2259 - TalkSport contest promotion; fair. [Connelly*O-MA]

1098 **SPAIN** RNE R.5 synchros, FEB 23 2300 - // 774 with Spanish news by woman; fair. [Connelly*O-MA]

1107 **SPAIN** RNE R.5 synchros, FEB 23 2300 - // 774 with Spanish news by woman; over unID station. [Connelly*O-MA]

1107 **SPAIN** R. Nacional various 00:27 UTC Apr 3 Spanish teletalk (good). [AW-BH]

1116 **SPAIN** SER Pontevedra 2:15 UTC Apr 3 woman & man in Spanish (good). [AW-BH]

1116 **unID** 00:27 UTC Mar 28 Chants (Likely Iran). [AW-BH]

1125 **SPAIN** RNE R.5 synchros, FEB 1 2335 - RNE net talk; poor. [Connelly*Y-MA]

1134 **CROATIA** Glas Hrvatske, Rasinovac Mar 29 22:20 UTC News & talk, ID (Very Strong). [AW-BH]

1134 **SPAIN** COPE synchros, FEB 1 2330 - COPE net talk; fair. [Connelly*Y-MA]

1170 **UNITED ARAB EMIRATES** R. Sawa, Al - Dhabbaya 00:44 UTC Apr 3 Arabic pop music (good). [AW-BH]

1179 **CANARY ISLANDS** // **SPAIN** SER synchros, MAR 21 2306 - man in Spanish; through slop from WFPB 1170 local. [Connelly*O-MA]

1179 **CANARY ISLANDS** / **SPAIN** - SER 21:57 UTC Mar 30 Spanish commentary. [AW-BH]

1179 **ROMANIA** Romania Actualitati, various 2:13 UTC Apr 3 man in Romanian talk // 1152 (Strong). [AW-BH]

1188 **IRAN** R. Payam, Tehran 00:35 UTC Apr 3 man in Farsi talk (fair). [AW-BH]

1197 **SPAIN** Euskadi Irratia, Vitoria 1:28 UTC Apr 3 Basque talk by man. [AW-BH]

1206 **FRANCE** France Info, Bordeaux-Neac 00:35 UTC Apr 3 new in French by woman. [AW-BH]

1206 **FRANCE** France Info, Bordeaux, FEB 1 2337 - France Info net talk; to good peak. [Connelly*Y-MA]

1215 **ENGLAND** Absolute Radio, various 21:58 UTC Mar 30 music & talk. [AW-BH]

1215 **UNITED KINGDOM** Absolute R. synchros, FEB 1 2335 - Sheryl Crow "If It Makes You Happy"; over Spain. [Connelly*Y-MA]

1224 **BULGARIA** (t) R. Bulgaria, Vidin 21:58 UTC Mar 30 Slavic talk, music. [AW-BH]

1224 **unID** 00:22 UTC Mar 28 Chants (likely VOIRI Abadan). [AW-BH]

1242 **FRANCE** France Info, Marseille Cabries-Realtor 2:17 UTC Apr 3 French talk by man & woman. [AW-BH]

1251 **IRAN** IRIB1, Sari 00:36 UTC Mar 28 Farsi talk (low audio) Libya off for a bit at the time). [AW-BH]

1251 **LIBYA** Libyan Jamahiriya, Tripoli, FEB 23 2259 - Arabic vocal. [Connelly*O-MA]

1251 **LIBYA** Voice of Africa, Tripoli 22:15 UTC Mar 29 Arabic patriotic song about Libya (Strong). [AW-BH]

1260 **SPAIN** SER Murcia 00:41 UTC Apr 3 Spanish teletalk (fair). [AW-BH]

1269 **GERMANY** Deutschlandfunk, Neumunster 00:28 UTC Apr 3 Operetic vocals. [AW-BH]

1278 **FRANCE** France Bleue, Selestat 22:05 UTC Mar 29 France Bleue Jingle ID, French talk. [AW-BH]

1278 **IRAN** IRIB 1 Kermanshah, 1:36 UTC Apr 3 woman in Farsi, instrumental music (Very Strong). [AW-BH]

1287 **SPAIN** SER various 1:33 UTC Apr 3 Spanish talk by woman & music. [AW-BH]

1296 **ENGLAND** Radio XL 1296 AM , Langley Mill 2:22 UTC Apr 3 Indian language programming & Music. [AW-BH]

1296 **SPAIN** COPE Valencia 1:32 UTC Apr 3 Spanish talk. [AW-BH]

1296 **SUDAN** SNBC Reiba 22:42 UTC Mar 27 Arabic talk, ment. Sudan (mixing with England). [AW-BH]

1305 **SPAIN** R. Nacional, various 1:32 UTC Apr 3 man & woman in Spanish. [AW-BH]

1314 **UNITED ARAB EMIRATES** R. Farda, Al - Dhabbiya 22:42 UTC Mar 27 Arabic talk, music (strong). [AW-BH]

1332 **IRAN** Tehran Radio , Tehran 00:28 UTC Apr 3 Chants & string instrument music. [AW-BH]

1341 **NORTHERN IRELAND** BBC R. Ulster, Lisnagarvey 1:30 UTC Apr 3 US Healthcare talk (Very Strong). [AW-BH]

1341 **SPAIN** SER or Onda Cero ? 00:38 UTC Apr 3 fast paced Spanish (under R. Ulster). [AW-BH]

1350 **FRANCE** R. Orient, Nice 22:40 UTC Mar 27 Arabic music & talk (good). [AW-BH]

1359 **unID** 22:40 UTC Mar 27 man in Arabic talk (tentative Egypt). [AW-BH]

1377 **FRANCE** France Info, Camphin-en-Carembault 1:35 UTC Apr 3 woman in French talk. [AW-BH]

1377 **FRANCE** France Info, Lille, MAR 21 2306 - man in French; loud. [Connelly*O-MA]

1386 **SPAIN** Euskadi Irratia, Bilbao 00:29 UTC Apr 3 Basque talk & promos (Very Strong). [AW-BH]

1404 **FRANCE** France Info, various 22:48 UTC Mar 27 man in French talk (good) // 1377. [AW-BH]
1413 **SPAIN** R. Nacional, Jaen 1:17 UTC Apr 3 Spanish commentary (Strong). [AW-BH]
1413 **SPAIN** RNE R.5 synchros, FEB 1 2335 - RNE net talk // 621; fair. [Connelly*Y-MA]
1422 **ALGERIA** RTA, Algiers, FEB 23 2259 - Arabic vocal; over Germany. [Connelly*O-MA]
1422 **GERMANY** Deutschlandfunk, Heuweiler 3:04 UTC Apr 3 woman with news in German. [AW-BH]
1431 **DJIBOUTI** R. Sawa, Arta 1:47 UTC Apr 3 Arabic talk by man, ID. [AW-BH]
1440 **LUXEMBOURG** China Radio Relay, Marnach 22:04 UTC program & talk in English. [AW-BH]
1440 **SAUDI ARABIA** General Arabic Programme, Dammam 00:38 UTC Apr 3 man in Arabic talk. [AW-BH]
1449 **LIBYA** Voice of Free Libya Meserata 2:18 UTC Apr 3 Chants, Arabic talk. [AW-BH]
1449 **LIBYA** Voice of Great Homeland, Misurata, MAR 21 2306 - a cappella male Arabic vocal; fair. [Connelly*O-MA]
1467 **FRANCE** TWR, Roumoules, FEB 1 2300 - preacher in English, majestic music flourish. [Connelly*Y-MA]
1467 **unID** 00:05 UTC Mar 29 Chants. [AW-BH]
1476 **SPAIN** Euskadi Irratia, Biribilondo 1:34 UTC Apr 3 man in Basque talk (fair). [AW-BH]
1485 **SPAIN** SER Santander 00:39 UTC Apr 3 man & woman in Spanish talk (Strong). [AW-BH]
1485 **SPAIN** SER synchros, FEB 23 2301 - Spanish newstalk by woman. [Connelly*O-MA]
1503 **IRAN** IRIB 1 Bushahr 00:29 UTC Apr 3 Middle Eastern music (Strong). [AW-BH]
1521 **SAUDI ARABIA** BSKSA Duba 00:30 UTC Apr 3 Arabic talk by man (Very Strong). [AW-BH]
1521 **SAUDI ARABIA** BSKSA, Duba, FEB 23 2300 - 5+1 pips, 5 note music fanfare, Arabic news; good. [Connelly*O-MA]
1521 **SPAIN** SER R. Castellon, MAR 21 2306 - Spanish talk; under Saudi Arabia. [Connelly*O-MA]
1530 **SÃO TOME** Voice of America Relay, Pinheira 3:04 UTC Apr 3 news in English, VOA ID's. [AW-BH]
1539 **UNITED ARAB EMIRATES** VOA Radio, AI - Dhabbiya 1:57 UTC Apr 3 VOA ment. in Urdu , web Address. [AW-BH]
1548 **KUWAIT** R. Sawa, Kuwait City 2:19 UTC Apr 3 News in Arabic, English news clips. [AW-BH]
1548 **UNITED KINGDOM** BBC R. Bristol, Mangotsfield, MAR 21 2306 - likely this with English talk by man mentioning setting clocks forward; over Kuwait. [Connelly*O-MA]
1550 **ALGERIA** RASD Clandestine, Rabouni, FEB 23 2300 - Arabic talk with "saharaiui" and "dimokratia" mentions, emphasis music; on USB to dodge WQEW IBOC and 1548 het. [Connelly*O-MA]
1557 **FRANCE** France Info, Fontbonne, FEB 1 2337 - France Info net talk; fair through WQEW slop. [Connelly*Y-MA]
1557 **FRANCE** France Info, Nice-Fontbonne 22:07 UTC Mar 30 French talk. [AW-BH]
1575 **UNITED ARAB EMIRATES** R. Farda, Al Dhabbiya, MAR 21 2306 - pop Mideast vocal; fair over Spain. [Connelly*O-MA]
1575 **UNITED ARAB EMIRATES** R. Farda, Al-Dhabbiya 00:31 UTC Apr 3 Arabic pops. [AW-BH]
1584 **SPAIN** SER various 22:08 UTC Mar 30 Spanish talk. [AW-BH]
1602 **SPAIN** Euskadi Irratia, R. Vitoria, Cerro Estibaliz 1:35 UTC Apr 3 Spanish music vocals & talk. [AW-BH]
1602 **SPAIN** R. Vitoria, Vitoria, MAR 21 2307 - Spanish talk by man; good over SER. [Connelly*O-MA]

***** PAN-AMERICAN LOGS *****

526 **BAHAMAS** ZLS beacon, Stella Maris, MAR 21 2329 - ZLS code ID's; fair. [Connelly*O-MA]
530 **CUBA** CMBQ, R. Enciclopedia, La Habana, FEB 1 2330 - instrumental version "Girl from Ipanema"; over Rebelde. [Connelly*Y-MA]
530 **CUBA** R. Rebelde, Guantanamo, FEB 1 2300 - talk // other Rebelde channels; mixed with R. Enciclopedia. [Connelly*Y-MA]
540 **CUBA** R. Rebelde, Sancti Spiritus, FEB 1 2338 - Rebelde political speech // 600; over CBT & WFLF. [Connelly*Y-MA]
540 **GRENADA** GBN Klassic AM, St. George's, MAR 21 2306 - Caribbean-accented man read local obituaries including Mavis Jones, funeral 2 p.m. Thursday the 22nd at the Forbes(?) Seventh Day Adventist Church; fair. [Connelly*O-MA]
550 **CUBA** R. Rebelde, Pinar del Rio, FEB 1 2331 - Rebelde talk // 600; in mess. [Connelly*Y-MA]
550 **VENEZUELA** YVKE, Mundial, Caracas, MAR 7 2359 - Caracas adverts. [Connelly*Y-MA]
560 **CUBA** R. Rebelde, Ciego Avila, FEB 1 2332 - Rebelde // 600, under WQAM / others, WGAN nulled. [Connelly*Y-MA]
570 **CUBA** R. Reloj, Arroyo Arenas, FEB 1 2329 - Reloj program; loud / dominant. [Connelly*Y-MA]
580 **PUERTO RICO** WKAQ, San Juan, FEB 1 2300 - WKAQ ID // 600; over WTAG. [Connelly*Y-MA]
600 **CUBA** CMKV, R. Rebelde, Urbano Noris, FEB 1 2300 - talk // 670 et al.; mixed with WYEL-PR. [Connelly*Y-MA]
600 **PUERTO RICO** WYEL, Mayaguez, FEB 1 2301 - // 580 with WKAQ ID; evenly mixed with Rebelde Cuba. [Connelly*Y-MA]
610 **BRAZIL** ZYL268, R. Itatiaia, Belo Horizonte, MAR 21 2330 - Portuguese talk mentioning Belo Horizonte sports items; thanks to Henrik Klemetz (Real DX) for info from audio clip. [Connelly*O-MA]
610 **CUBA** CMAN, R. Rebelde, Bahia Honda, FEB 1 2300 - talk // 670 et al.; mixed with WIOD. [Connelly*Y-MA]
620 **BRAZIL** ZYH590, R. Assuncao Cearense, Fortaleza, MAR 21 2306 - reverberated excited Portuguese talk by man, Brazil mentions; mixed with WZON. Numerous Fortaleza stations in at the time. [Connelly*O-MA]
620 **CUBA** R. Rebelde, Colon / Moa, FEB 1 2300 - talk // 670 et al.; dominant. [Connelly*Y-MA]
630 **CUBA** R. Progreso synchros, FEB 1 2331 - Progreso // (local-like) 640; over WPRO, WUNO. [Connelly*Y-MA]
630 **PUERTO RICO** WUNO, San Juan, FEB 23 2330 - Uno ID, Spanish talk; under WPRO. [Connelly*O-MA]
640 **CUBA** R. Progreso synchros, FEB 1 2331 - // 630 et al. with old-style Spanish group vocal, Progreso ID; loud / dominant. [Connelly*Y-MA]
640 **GUADELOUPE** R. Guadeloupe, Pointe-a-Pitre, MAR 21 2306 - Caribbean-accented French talk by man; over YVQO and CBN. [Connelly*O-MA]
640 **VENEZUELA** YVQO, Union R., Puerto La Cruz, MAR 8 0001 - mentions of Margarita and Caracas, then Union Radio ID; mixed with Cuba. [Connelly*Y-MA]
650 **CUBA** R. Progreso synchros, FEB 1 2337 - Progreso vocal // 640; over second Spanish-language station. [Connelly*Y-MA]
670 **CUBA** CMQ, R. Rebelde, Arroyo Arenas, FEB 1 2300 - // 1180 with Cuba newstalk; dominant. [Connelly*Y-MA]
670 **VENEZUELA** YVLL, R. Rumbos, Caracas, MAR 21 2330 - "Radio Rumbos" ID; over unID second Latin American. [Connelly*O-MA]
680 **PUERTO RICO** WAPA, San Juan, FEB 1 2301 - local Puerto Rico adverts in Spanish, prices in dollars; under WRKO. [Connelly*Y-MA]
690 **BRAZIL** ZYH587, R. Dragao do Mar / R. Shalom, Fortaleza, MAR 21 2306 - Portuguese talk by man with Shalom and alegria mentions, light jazz; to good peak. [Connelly*O-MA]
690 **COLOMBIA** HJJCZ, R. Recuerdo, Bogota, MAR 14 0341 - old music, Recuerdos jingle; over Cuba. [Connelly*Y-MA]
690 **CUBA** R. Progreso, Jovellanos, MAR 7 2359 - // 640 with music; mixed with WJOX. [Connelly*Y-MA]
700 **BRAZIL** ZYK686, R. Eldorado AM, Sao Paulo, MAR 21 2306 - excited Portuguese talk by man; poor, needed USB to dodge WOR IBOC. [Connelly*O-MA]
710 **CUBA** R. Rebelde synchros, FEB 1 2300 - talk // 670 et al.; over WOR. [Connelly*Y-MA]
720 **BRAZIL** Recife (ZYI770) or Porto Alegre (ZYK276), MAR 21 2306 - Portuguese fast talk by man; on LSB to dodge WOR IBOC. [Connelly*O-MA]
720 **CUBA** R. Progreso, Mabajabo, MAR 7 2330 - Progreso ID; over others, LSB used to dodge WOR IBOC. [Connelly*Y-MA]
720 **VENEZUELA** YVQE, R. Oriente, Porlamar, MAR 22 0001 - slow vocal, jingle, ID "En Venezuela, Oriente"; fair to good, dominant. [Connelly*O-MA]
730 **CUBA** R. Progreso, La Fe, FEB 1 2330 - chimes, Progreso ID // 640; over WJTO groundwave, CKAC nulled and aurora'ed to oblivion. [Connelly*Y-MA]
740 **BRAZIL** ZYH446, R. Sociedade da Bahia, Salvador, MAR 22 0000 - typical top-of-hour "Close Encounters" theme (5 notes on electronic instrument), Portuguese talk; briefly cutting through the competition from CFZM & CHCM. [Connelly*O-MA]
740 **CUBA** R. Angulo, Sagua de Tanamo, FEB 1 2301 - Radio Angulo ID and chimes. [Connelly*Y-MA]
750 **CUBA** CMHV, R. Progreso, Trinidad, FEB 1 2330 - Progreso // 640; under WSB, over YVKS & CBGY. [Connelly*Y-MA]
750 **VENEZUELA** YVKS, RCR, Caracas, FEB 1 2326 - local topics panel discussion, RCR ID; over WSB, Cuba, CBGY. [Connelly*Y-MA]
760 **BRAZIL** ZYH588, R. Uirapuru, Fortaleza, MAR 21 2330 - Portuguese talk with Uirapuru mention; to good peak. [Connelly*O-MA]
760 **COLOMBIA** HJAJ, RCN, Barranquilla, FEB 1 2331 - "Esta es RCN, la radio ... noticias"; over others. [Connelly*Y-MA]
770 **CUBA** R. Rebelde, Victoria de las Tunas, FEB 1 2300 - talk // 670 et al.; over WABC. [Connelly*Y-MA]
780 **BRITISH VIRGIN ISLANDS** ZBVI, Roadtown, Tortola, MAR 21 2306 - "This is Radio Station Zed BVI" into slow soul male vocal; over R. Coro. [Connelly*O-MA]
780 **VENEZUELA** YVMN, R. Coro, Coro, FEB 1 2331 - reverberated man "en Coro ... la informacion"; dominant. [Connelly*Y-MA]
790 **CUBA** R. Reloj, Pinar del Rio & Holguin, FEB 1 2330 - two Reloj stations with 1 to 2 seconds delay between them; over 2 US sports stations and unID Spanish.vocal [Connelly*Y-MA]
800 **NETHERLANDS ANTILLES** PJB, Trans-World Radio, Bonaire, MAR 8 0000 - "Grand Old Glory Train" promo, talk "Join us each evening at this time here on 800 AM, TWR Bonaire, the Dutch Caribbean."; dominant. [Connelly*Y-MA]
810 **BRAZIL** ZYH589, R. Verdes Mares, Fortaleza, MAR 21 2315 - reverberated Portuguese talk by man; under WGY. [Connelly*O-MA]
810 **COLOMBIA** HJCY, CARACOL, Bogota, FEB 1 2337 - // 1100 with speech by man; mixed with second Spanish language station (PR?). [Connelly*Y-MA]
819.5 **COLOMBIA** (t) HJAD, Cartagena, FEB 1 2331 - het against St. Kitts. [Connelly*Y-MA]
820 **CUBA** CMDE, R. Reloj, Contramaestre, MAR 14 0322 - Reloj program; dominant. [Connelly*Y-MA]
820 **ST. KITTS & NEVIS** Trinity Broadcast Network / R. Paradise, Charlestown, FEB 1 2331 - good with

US preacher, hymn; over Reloj Cuban. [Connelly*Y-MA]
 840 **CUBA** CMHW, "W", Santa Clara, MAR 14 0321 - man with Cuba sportstalk, crowd noises; good. [Connelly*Y-MA]
 840 **HAITI** R. 4VEH (4VEF), Cap-Haitien, MAR 8 0000 - electronic keyboard "dashing through the snow" interval music, Haitian French hymn; over WHAS. [Connelly*Y-MA]
 860 **BRAZIL** ZYH592, R. Cidade, Maracanau, MAR 21 2315 - Portuguese talk by man; mixed with CJBC & VON St. Kitts-Nevis. Suspected this instead of Rio due to propagation being better to northern / eastern sections of Brazil at the time. [Connelly*O-MA]
 860 **BRAZIL** ZYJ459, R. CBN, Rio de Janeiro, MAR 7 2313 - reverberated Portuguese talk by man; over Reloj & St. Kitts-Nevis. [Connelly*Y-MA]
 860 **CUBA** R. Reloj, FEB 1 2330 - Reloj over tropical Spanish vocal station, no trace of CJBC. [Connelly*Y-MA]
 860 **ST. KITTS & NEVIS** V. of Nevis, Bath Village, MAR 21 2306 - talk "With all the power from the tower, this is the powerhouse of the eastern Caribbean, VON Radio, from the Federation of St. Kitts and Nevis."; good, over CJBC. [Connelly*O-MA]
 870 **CUBA** R. Reloj synchros, FEB 1 2329 - Reloj evenly mixed with WWL. [Connelly*Y-MA]
 880 **VENEZUELA** YVYM, R. Venezuela, Puerto Ordaz, MAR 8 0000 - Radio Venezuela slogan; under WCBS. [Connelly*Y-MA]
 900 **CUBA** R. Progreso, MAR 7 2331 - // 640 with folk vocal, talk with Progreso ID; loud. [Connelly*Y-MA]
 910 **CUBA** R. Cadena Agramonte, Camaguey, FEB 1 2330 - Radio Cadena Agramonte ID; dominant. [Connelly*Y-MA]
 940 **PUERTO RICO** WIPR, San Juan, MAR 14 0318 - several "Maxima" ID's. [Connelly*Y-MA]
 940 **VENEZUELA** YVNN, R. Punto Fijo, Punto Fijo, MAR 8 0001 - R. Punto Fijo ID; atop others. [Connelly*Y-MA]
 950 **CUBA** R. Reloj, La Habana & Mayari Arriba, FEB 1 2330 - Reloj mixed with WPEN. [Connelly*Y-MA]
 960 **CUBA** R. Reloj, Guantanamo, FEB 1 2330 - Reloj newstalk; over mess. [Connelly*Y-MA]
 960 **VENEZUELA** R. Venezuela, Acarigua, MAR 21 2331 - Radio Venezuela ID surfaced over the jumble. [Connelly*O-MA]
 980 **CUBA** R. Reloj, Moa, FEB 1 2300 - Reloj program; in jumble. [Connelly*Y-MA]
 990 **VENEZUELA** YVTA, R. Tricolor, Barquisimeto, FEB 1 2331 - local-stories newstalk in Spanish. [Connelly*Y-MA]
 1000 **BRAZIL** ZYK522, R. Record, Sao Paulo, MAR 14 2330 - excited Portuguese talk by man; in jumble. [Connelly*Y-MA]
 1000 **COLOMBIA** HJAQ, RCN, Cartagena, FEB 1 2330 - // 760 with "esta es RCN"; atop jumble (Brazil etc.), on USB to dodge 999 het and WINS IBOC. [Connelly*Y-MA]
 1010 **BRAZIL** ZYH625, Radio CBN, Fortaleza, MAR 21 2306 - Fortaleza and comercial mentions; mixed with WINS. [Connelly*O-MA]
 1020 **CUBA** R. Reloj, Victoria de las Tunas, FEB 1 2301 - Reloj program; mixed with KDKA and unID Latin American station, tough with WBZ IBOC on LSB and WINS IBOC on USB. [Connelly*Y-MA]
 1039.6 **VENEZUELA** La Voz de Carabobo, YVLB, Valencia, FEB 1 2330 - bits of Spanish talk, splittable from 1040. [Connelly*Y-MA]
 1040 **BRAZIL** ZYK537, R. Capital, Sao Paulo, FEB 1 2331 - bits of reverberated Portuguese talk, then covered by something in Spanish (likely Colombia). [Connelly*Y-MA]
 1050 **VENEZUELA** YVKZ, R. Nacional de Venezuela, Caracas, MAR 21 2331 - ID Radio Nacional de Venezuela; mixed with WEPN. [Connelly*O-MA]
 1060 **CUBA** R. 26, Jovellanos, FEB 1 2331 - Cuban political talk; over unID Latin American vocal. [Connelly*Y-MA]
 1060 **DOMINICAN REPUBLIC** (t) HIRV, R. Amanecer, San Pedro de Macoris, FEB 1 2337 - Spanish preaching; over unID tropical music and weak background WQOM/KYW. [Connelly*Y-MA]
 1060.285 **unID** ?, FEB 1 2337 - het growl. [Connelly*Y-MA]
 1070 **COLOMBIA** HJCG, R. Santa Fe, Bogota, MAR 8 0000 - Radio Santa Fe ID, "buenas noches Bogota"; barely over pile-up. [Connelly*Y-MA]
 1070 **CUBA** R. Trinchera Antiimperialista, Guantanamo, FEB 1 2330 - talk "desde la Habana" over WAPI, others. [Connelly*Y-MA]
 1070.125 **unID** ?, FEB 1 2337 - het growl. [Connelly*Y-MA]
 1080 **CUBA** R. Cadena Habana, Villa Maria, FEB 1 2301 - "Desde la capital, transmite Radio Cadena Habana, emisora de la musica cubana" then big-band; over WTIC. [Connelly*Y-MA]
 1080 **VENEZUELA** YVQU, R. Barcelona, Barcelona, MAR 8 0001 - ID "Radio Barcelona .. Venezuela"; slightly over mess. [Connelly*Y-MA]
 1100 **BRAZIL** ZYK694, R. Globo, Sao Paulo, MAR 7 2330 - reverberated Portuguese talk by man; over others. [Connelly*Y-MA]
 1100 **COLOMBIA** HJAT, CARACOL, Barranquilla, FEB 1 2337 - // 810 with speech by man in Spanish; under WTAM. [Connelly*Y-MA]
 1110 **VENEZUELA** YVQT, R. Carupano, Carupano, MAR 7 2330 - adverts, Carupano ID; mixed with WBT, unID second Spanish talker under both. [Connelly*Y-MA]
 1120 **PUERTO RICO** WMSW, R. Once, Arecibo, FEB 1 2300 - slogan "Radio Once: Once Veinte AM"; in

jumble. + MAR 7 2359 - ID talk including WMSW call. [Connelly*Y-MA]
 1130.06 **unID** ?, FEB 1 2337 - growl. [Connelly*Y-MA]
 1140 **CUBA** R. Surco, FEB 1 2300 - fast-paced Cuban news (man & woman in Spanish); briefly over CBI. [Connelly*Y-MA]
 1160 **BERMUDA** VSB3, Hamilton, FEB 1 2300 - BBC news over something in Spanish, usual WSKW/WOBM/WVWJ missing. + MAR 7 2301 - BBC news about large bomb explosion in Afghanistan, fatalities; loud/dominant. [Connelly*Y-MA]
 1170 **COLOMBIA** HJNW, CARACOL, Cartagena, MAR 7 2359 - CARACOL Radio ID; mixed with WWVA. [Connelly*Y-MA]
 1170 **unID** ?, FEB 1 2337 - Spanish talk and ID that sounded like Radio Yupa; under WWVA. [Connelly*Y-MA]
 1180 **CUBA** R. Rebelde (CMBT Villa Maria and others), FEB 1 2300 - talk // 670 et al.; dominant. [Connelly*Y-MA]
 1210 **CUBA** R. Rebelde synchros, FEB 1 2300 - talk // 670 et al.; under WPHT. [Connelly*Y-MA]
 1210 **CUBA** R. Sancti Spiritus, Sancti Spiritus, MAR 7 2359 - Radio Sancti Spiritus ID's, bumper music. [Connelly*Y-MA]
 1220 **BRAZIL** ZYJ258, R. Globo, Rio de Janeiro, FEB 1 2301 - reverberated Portuguese talk; atop WHKW. + MAR 7 2318 - fast Portuguese talk, Rio advert. [Connelly*Y-MA]
 1280 **BERMUDA** VSB2, Hamilton, FEB 1 2300 - BBN network ID and mention of Wadesboro-Charlotte (NC) feeder station WYFQ; dominant. [Connelly*Y-MA]
 1280 **BRAZIL** Super R. Tupi, ZYJ455, Rio de Janeiro, MAR 7 2301 - Portuguese shouting; under Bermuda. [Connelly*Y-MA]
 1290 **VENEZUELA** YVLF, R. Puerto Cabello, Puerto Cabello, MAR 8 0001 - Radio Puerto Cabello jingle, man in Spanish; in jumble with WRNI, others. [Connelly*Y-MA]
 1320 **VENEZUELA** YVWP, R. Apolo, Turmero, FEB 1 2331 - "esta es Radio Apolo" ID; in mess. [Connelly*Y-MA]
 1500 **VENEZUELA** YVRZ, Radio Dos Mil, Cumana, FEB 1 2332 - "Dos Mil" ID; way under WFED. [Connelly*Y-MA]
 1520.14 **COLOMBIA** (t) HJLQ, R. Minuto, Barranquilla, FEB 1 2332 - growl against WWKB. [Connelly*Y-MA]
 1520.38 **unID** ?, FEB 1 2332 - growl. [Connelly*Y-MA]
 1540 **BAHAMAS** ZNS1, R. Bahamas, Nassau, FEB 1 2329 - BBC World Service news, then woman "This is your Zed N S network radio news evening report for Wednesday, February first, 2012.", news about local election followed; EXCELLENT. [Connelly*Y-MA]
 1550 **CUBA** R. Rebelde synchros, FEB 1 2330 - Rebelde political speech; mixed with WITK-PA. + MAR 8 0002 - two Rebeldes (// 1620) with about a 1 second difference between them. [Connelly*Y-MA]
 1559.56 **unID** ?, MAR 21 2315 - het growl against nulled WQEW. [Connelly*O-MA]
 1580 **COLOMBIA** HJQZ, R. Maria, Barranquilla, FEB 1 2330 - ID "Esta es Radio Maria, HJQZ", classical music followed. Not strong but dominant. [Connelly*Y-MA]
 1610 **ANGUILLA** Caribbean Beacon, The Valley, FEB 1 2300 - southern US preacher; good (best on USB). [Connelly*Y-MA]
 1620 **CUBA** R. Rebelde synchros, FEB 1 2259 - R. Rebelde // 1180 with jazz, ID; multi-station echo. [Connelly*Y-MA]
 1620 **US VIRGIN ISLANDS** WDHP, Fredriksted, MAR 7 2259 - ID "WDHP, powerhouse of the Eastern Caribbean", talk by Caribbean-accented man; mixed with Cuba. [Connelly*Y-MA]
 1660 **PUERTO RICO** WGIT, Canovanas, MAR 8 0001 - talk "buenas noches Canovanas"; in mix with WWRU and WCNZ. [Connelly*Y-MA]

*** CONTRIBUTORS ***

[AW-BH] **Allen Willie**, VO1-001-SWL, VOPC1AA
 Bristol's Hope, Newfoundland 47:43N 53:11W <http://www.nldxers.fav.cc>
Receivers: SRF-M37V, SRF-M37W, SRF-39FP, Sangean DT-210V barefoot

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 (GC= 41.645 N / 70.198 W) (= 41° 38.7' N / 70° 11.9' W)
 (Bass River Beach, <<http://www.yarmouth.ma.us/index.aspx?NID=672>>)
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Receiver: Microtecom Perseus
 Antenna: cardioid-pattern Micro-SuperLoop on car roof, square, 2 m per side, with 9:1 transformer on east bottom corner to speaker wire to 2:1 transformer to W7IUU transfer amp, and 9:1 transformer on west corner to speaker wire to 500 ohm null-adjust potentiometer. See
 <http://home.comcast.net/~dx_lab/pictures/micro_superloop.htm> for a similar antenna.

Notes:
 The majority of logs from Orleans and South Yarmouth are at the indicated sites. A few were made at nearby alternate sites within the same town indicated.

DX FORUM

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Deadlines: 4/21 5/5 5/19 6/2 6/23 7/7 7/21 8/12 9/1

Stephen S. Howe, 9 Warner Drive, Saint Albans, Vermont 05478-1575

I always seem to miss the IRCA's Anniversary by one or two issues. I'm 57 and have been DXing since I was a teenager in Great Neck, NY. I was a member of the Club in the late 1960's and early 1970's, but listening took a back seat to school and my first job until I rejoined the IRCA in the late 1980's while living in Menlo Park, CA. I moved to my current home in Saint Albans, VT in 1990. I have been your Verification Signers column editor for nearly 20 years and I believe I was the Club's last Frequency Check editor. I am currently a research geochemist at the University at Albany in Albany, NY, but beginning in the fall, my responsibilities will turn almost exclusively to teaching. Staying up all night was never a problem when I was younger, and I still remember many of my early morning DX test and frequency check catches like they happened yesterday. Sunset was also a favorite time to DX in the early days. My life changed radically in 2010 when I became a first-time father when my wife and I adopted a little girl. I am very much the proud papa and can't even imagine my life without such a precious person in it, but my time at the dials has become nearly non-existent, as you can imagine. I still manage to sneak in a few DX tests each season, especially those scheduled on Friday through Sunday evenings, using my Sony ICF-2010 and Radio West loop, but I'm hoping to find some time to DX more actively someday. 73, Steve.

IRCA TECHNICAL COLUMN

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5 inch "Ultra Light" FSL Antenna

Maximum AM-DXing Performance from a Minimal Package
By Gary DeBock

Introduction: Graham Maynard's initial article describing an innovative ferrite sleeve antenna certainly caused a sensation among experimenters, who quickly realized that this new design was one of the major breakthroughs in the effectiveness of portable AM-DXing antennas. Massive orders were placed for Russian surplus ferrite rods and bars in a collective search for maximum FSL gain, while various design options were explored by individual experimenters going in their own chosen direction. Some very effective design models were created, but they all had one common characteristic—they were considered overpriced and inaccessible by the vast majority of the Ultralight radio enthusiast group. One of the major antenna discoveries in recent history was being enjoyed by only a select few.

Publication of a 7 Inch "Affordable" FSL design last October was an attempt to bridge the gap with these overlooked DXers, but it soon became obvious that the \$150 target price of the antenna just wasn't "affordable" enough for most of the target audience. Poor economic conditions had stretched hobby-related budgets very thin, and a radically different approach would be necessary to provide any practical kind of FSL antenna option for the scores of interested DXers still on the sidelines.

It was obvious that various design corners could be cut to provide a cheap and mediocre FSL antenna, but that certainly wasn't anything worthy of the interested DXers, or of the testing resources available here. It became a fascinating challenge to design and create a potent but pint-sized antenna that would cost around \$90 to build (as of January 2012), but deliver enough AM-DXing performance to make hobbyists completely forget that they were ever using



Photo 1

an "economy model." The target FSL would be a tiny thriller, with sufficient inductive coupling gain to provide a major boost in hobby excitement for all users.

Project Overview One of the major challenges in FSL antenna design is relating the performance of the new loops to a standard which is commonly known and accepted in the AM-DXing community. The author was fortunate to have PVC air core loops of various sizes on hand during the development of this 5" FSL model (and other models), making it possible to accurately judge its weak-signal reception capability against that of various air core loops (as in the testing process, shown at right). Despite the reduced scale of this FSL model, the highest quality Litz wire and vernier-drive variable capacitor were retained in an effort to provide maximum DXing performance for its size—and when this 5" FSL's weak-signal reception was found to be equivalent to that of a full-sized 4' air core box loop, the design challenge of creating a tiny thriller was considered a success.

In an effort to make construction as simple as possible the antenna's components were chosen because of their plentiful supply, and most of them have been stockpiled by the author. The Russian surplus 140mm x 8mm ferrite rods are currently available in good quantity from at least two eBay sellers in the Ukraine ("Alexer1" and "Sovtube"), and the 660/46 Litz wire is also commonly available from the eBay seller "Mkmak222". There is no need to install pipe insulation layers—a 5" long "Big Boss Noodle" section (available from the author at d1028gary@aol.com) simply slides into a 3" diameter rubber plumbing coupler with a vinyl liner locking strip, providing a soft, padded base for protection of the 45 ferrite rods. Finally, the antenna has slip-resistant rubber grips on the two PVC "legs" for operation on wet surfaces, and provisions have also been made for plugging in a protective "rain hood" assembly. A compact Sterilite plastic tote (14 1/4" x 9 5/8" x 12 1/8"), which is commonly available at Walmart stores) can transport the antenna to a DXpedition site, and double as a weather-proof operating space for the 5" FSL and inductively-coupled portable radio (see Photo 1).



Photo 2

Although FSL antennas are commonly used to boost DX signals in Ultralight radios, they are also highly effective in providing gain enhancement for full-sized AM-DXing portables like the Sony ICF-2010, Panasonic RF-2200 and other classic radios. Any radio with an AM loopstick can benefit greatly from such inductive coupling, especially in outdoor environments where the 5" FSL's superior signal-to-noise capability can really be enjoyed. But even if outdoor DXing is impossible or inconvenient for you, this compact FSL model will still provide plenty of indoor hobby fun.

Construction Parts List To assemble the 5" FSL the following parts will be required. Material marked with an asterisk (*) has been stockpiled by the author, and is available to builders at cost as long as supplies last. (see Photo 2 for alphabetical references)

- A) 45 Russian surplus 140mm x 8mm ferrite rods, commonly available from the eBay sellers "Sovtube" and "Alexer1" (Note: Since about 10% of these rods come with noticeable bends or angles in them, it is advisable to order a total of about 50 rods so that 45 straight rods will be available.)
- B) 40' of 660/46 Litz wire, available from the eBay seller "Mkmak222" (Note: This seller commonly sells such wire in 60' and 100' lengths. Unless you need more such Litz wire for a second project, ask him to sell the 40' length.)
- C) A 381 pf, 8:1 drive variable capacitor from <http://www.crystalradiosupply.com> (Part #N50P), plus the control knob

- (control knob #3 from the same source)
- D*) A 3" x 3" Fernco rubber plumbing coupler, Part #P-1056-33 (used to connect cast iron, plastic, copper, steel or lead), Available from McLendon's hardware stores locally (source is <http://www.fernco.com>)
- E*) A 5" long section of the "Big Boss Noodle" swimming floatation aide, 3.5" diameter
- F*) One 12", one 9", two 3" and four 2.5" lengths of 3/4" diameter Schedule 40 PVC pipe; four 3/4" PVC "Tee" fittings (complete sets of precut PVC pipes and fittings are available from the author at cost)
- G*) 1", 2" or 4" wide Johnson & Johnson (or Rite Aid) waterproof tape roll
- H*) One roll of Scotch brand "Extreme" strapping tape
- I*) 1/2" wide Johnson & Johnson (or Rite Aid) waterproof tape roll
- J*) A 12" x 4.5" section of "Magic Cover" vinyl top liner (source is <http://www.kittrich.com>)
- K*) Three 120 pound-test, 18" long nylon cable tie wraps
- L*) 12" length of 5/8" I.D. rubber heater hose
- M*) One 6-32 x 3/8" machine screw, two 6-32 nuts, one #6 lockwasher, one #6 soldering lug
- N*) 2 1/2" long section of 3/32" shrink tubing
- O*) Oatey 4" x 4" foam closet spacer
- Miscellaneous: Oatey "Rain R Shine" blue PVC glue, Duro Super Glue, solder

Ferrite Ordering Notes



Russian surplus ferrite rods typically take several weeks to arrive in North America from the eBay sellers in the Ukraine. This particular size of ferrite rod has been ordered in serious quantities from both of these sellers during the past year, and was also the size used in the 7" "Affordable" FSL project. Current

Photo 3 indications (as of February 2012) are that a very large stock of the 140mm x 8mm ferrite rods is still held by both of these Ukrainian sellers, which was one of the reasons why this particular size was chosen for the 5" FSL construction project.

Step By Step Construction

1) Refer to Photo 3. Take the 12" x 4.5" section of vinyl top liner and fold it in half lengthwise, so that it becomes a folded 12" x 2.25" section (ensure that the smoother side of the vinyl liner is on the inside, and the side with the gripping pattern is on the outside). Wrap this folded section as shown around the center of the Big Boss Noodle section, pulling it tightly so that one edge overlaps the other. Secure this overlapping section with a 2" strip of Scotch "Extreme" tape, as shown.

2) Face the folded edge of the liner toward the rubber coupler opening (as shown), and carefully insert the noodle/liner assembly into the rubber coupler edge by edge, so that the liner does not bind as it enters the rubber coupler. Using thumb pressure on both sides of the noodle/liner assembly, carefully work the assembly down (edge by edge) so that the liner stays flat against the inside of the rubber coupler. Continue this downward pressure (edge by edge) until the liner is completely hidden

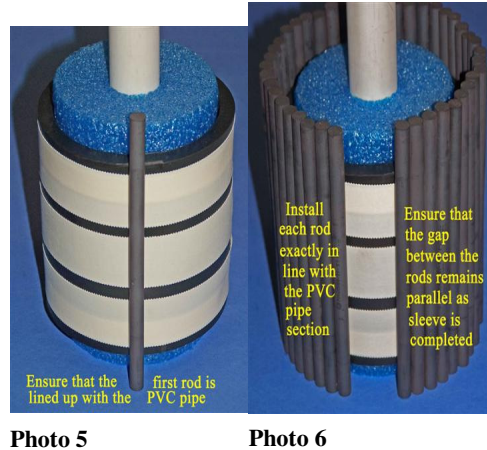


Photo 5

Photo 6

inside the coupler. Finally, push the Noodle edge downward until equal lengths of the Noodle are on each side of the rubber coupler, and both edges of the Noodle are exactly parallel with the edges of the rubber coupler (as shown in Photo 4).

3) Refer to Photo 4. Remove the paper label and any hose clamps from the rubber coupler, and using diagonal cutters, cut off any rubber tabs so that the rubber coupler has completely flat mounting surfaces for the ferrite rods. Using 1/2" waterproof tape, wrap 6 turns around both of the hose clamp slots so that an even, flat surface is created for mounting the ferrite rods.

4) Refer to Photo 5. Using the wider waterproof tape (adhesive side out), tightly wrap several horizontal turns around the rubber coupler so that an evenly-spaced tape pattern is created to hold the ferrite rods. Overlap the end of each turn by about 2", and ensure that each turn is wrapped tightly so that the turns will not slide up or down on the rubber coupler.

NOTE: It is common for the Russian surplus ferrite rods to have minor bends, but rods which are seriously bent or damaged should not be installed in the antenna. Perform a "roll test" on each individual rod (on a flat table) to check for serious flaws. Reject those that won't roll.

5) Refer to Photo 5. Temporarily push the 9" PVC pipe section into the Noodle, so that the pipe's lower edge is flush with the Noodle's lower edge (and both are flat against a perfectly flat table). Choose a perfectly straight ferrite rod and press it tightly against the horizontal tape pattern, ensuring that it is exactly lined up vertically with the PVC pipe, and that the ferrite rod's lower edge is flush against the flat table. This step is important in starting a tidy pattern.

6) Refer to Photo 6. Carefully press each of the ferrite rods tightly against the adjacent rod, ensuring that each rod is flush with the table, and that each rod remains lined up with the PVC pipe. Any rods with minor bends (that pass the "roll test") should be installed so that maximum contact with the waterproof tape is made. When the rod assembly is nearing completion, check to ensure that the gap between the installed rods remains parallel, and that the rods all have the same approximate height against the rubber coupler. It is acceptable to have a minor gap (1/8" or less) between the final rod and the first rod, since the following steps will compress the ferrite sleeve, and tend to eliminate minor gaps.

7) Refer to Photo 7. Using the wider waterproof tape (adhesive side out) tightly wrap several horizontal turns around the ferrite sleeve (starting with the exact center section of the rods), so that a 4" wide pattern centering on the middle of the ferrite rods is covered. Ensure that each of these tape turns is tight, and that they will not slide up and down the ferrite sleeve. Overlap the end of each turn by about 2". These tape turns help to secure the ferrite sleeve assembly in a cylindrical shape, and should be installed immediately after completion of the ferrite rod installation.

8) Refer to Photo 8. Using needle-nose pliers, carefully remove the stapler from the Oatey 4" x 4" foam closet spacer pack. Cut a 17" long section of foam spacer material (with straight, perpendicular

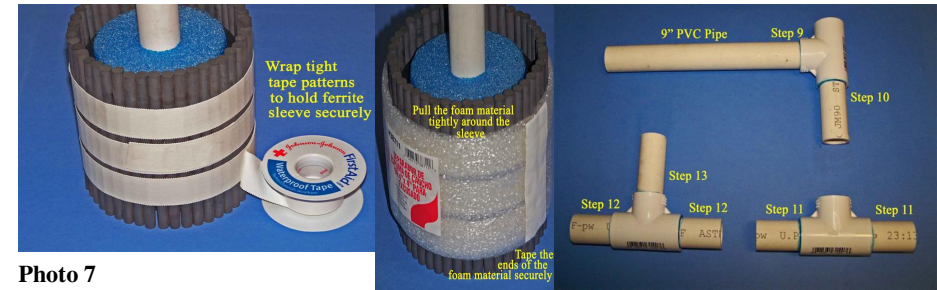


Photo 7

Photo 8

edges), using foam spacer material which does not have serious gaps or holes. Tightly wrap this foam material around the 4" wide tape pattern on the ferrite sleeve assembly, ensuring that it is centered on the ferrite rods. Pull the foam material tightly (it has the ability to stretch, to some degree), and cut off any excess material on the ends so that the straight edges mate perfectly (see Photo 8). While the foam material is still tightly stretched in this manner, secure the ends with a strip of the wider waterproof tape.

NOTE: The antenna's PVC frame will be installed in the following steps. Detailed information on the preparation and gluing of PVC pipes and fittings is given in the PVC Loop article posted at <http://www.mediafire.com/?igw1zjwfmw> on Pages 3, 4 and 5 (also see DX Monitor of 12 Sept

Photo 9

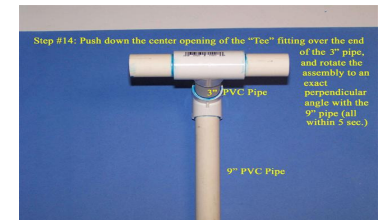


Photo 10

2009). When performing the following steps, ensure that such instructions are understood and followed. Because of the inexpensive cost of the PVC fittings and pipes, it is advisable to practice making strong glue joints on a few scrap pieces before starting the assembly of the antenna's frame. Each PVC gluing step should be read and understood completely before proceeding with the step. Because of strong glue fumes, all PVC gluing operations should be conducted outdoors.

9) Refer to Photo 9. Remove the 9" PVC pipe from the ferrite sleeve assembly, and glue the center opening of a PVC "Tee" fitting to one end of the pipe.

10) Glue a 3" PVC pipe to one of the open sides of the "Tee" fitting attached to the 9" PVC pipe.

11) Glue a 2.5" PVC pipe to each of the open ends of another PVC "Tee" fitting.

12) Take another PVC "Tee" fitting, and glue the remaining two 2.5" PVC pipes to each of the open ends of the fitting.

13) Glue the remaining 3" PVC pipe to the center opening of the "Tee" fitting used in Step #12.

14) Refer to Photo 10. Take the 9" PVC pipe assembly and the PVC "Tee" assembly prepared in Step #11. Stand the 9" PVC pipe assembly on the open end of its "Tee" fitting (as shown). Apply PVC glue to the end of the 3" pipe (which is straight up), and then apply PVC glue to the center opening of the "Tee" fitting (prepared in Step #11). Perform the following steps within 5 seconds: push the "Tee" fitting down over the 3" pipe until the fitting bottoms out, and twist the "Tee" fitting until the 2 1/2" pipes are exactly perpendicular to the 9" pipe (see photo at right).

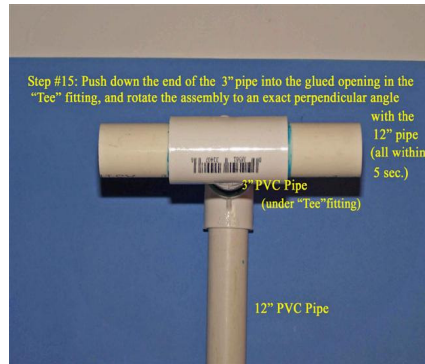


Photo 11

15) Refer to Photo 11. Insert the 12" PVC pipe

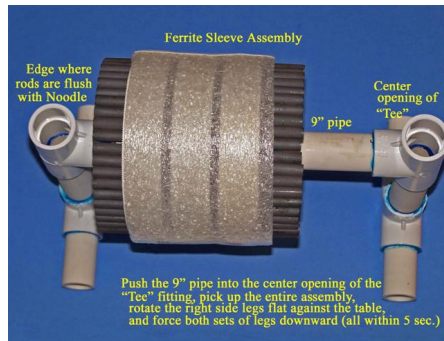


Photo 12

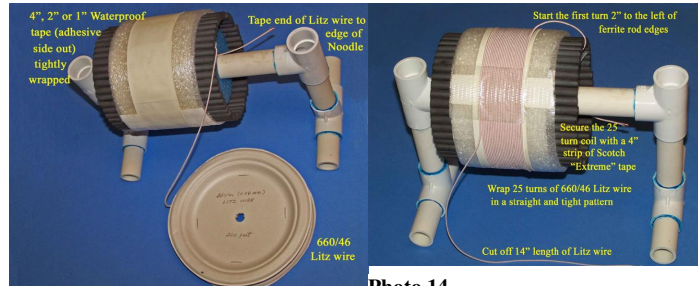


Photo 13

16) NOTE: The following step should be performed on a perfectly flat table. Refer to Photo 12. Take the ferrite sleeve assembly, and reinsert the 9" PVC pipe (which now has a set of 2 1/2" "legs" attached) into the side of the ferrite sleeve assembly which has the ferrite rods flush with the Noodle edge. Run the 9" pipe through the Noodle until the Noodle bumps up against the "Tee" fitting. Temporarily lay the FSL assembly flat on the table, so that the open end of the 9" pipe is exposed in the air. Take the remaining PVC 2 1/2" "leg" assembly (prepared in Step #15), and apply PVC glue to the center opening of its "Tee" fitting, then apply PVC glue to the edge of the 9" pipe running through

and 13) and apply PVC glue to the edge of the 3" pipe, then apply PVC glue to the "Tee" opening (which is pointing upwards) of the 12" pipe assembly on the table. Perform the following steps within 5 seconds: push the 3" pipe assembly down into the glued end of the "Tee" fitting on the table until the pipe bottoms out, and twist the 3" pipe assembly until the 2 1/2" pipes are exactly perpendicular to the 12" PVC pipe on the table. After this step, remove the 12" pipe from the assembly (it will not be used in the rest of the project).

the ferrite sleeve assembly. Perform the following steps within 5 seconds: push the 9" pipe into the center opening of the "Tee" fitting until it bottoms out, pick up the entire assembly, and rotate the second "leg" assembly so that both sets of "legs" are fairly flat against the table. Force both sides of the frame hard downward against the table until the right side "leg" assembly is perfectly straight (while the glue is still wet, putting downward pressure on both sides of the frame will provide a perfectly straight match of the "legs," as long as the table is perfectly flat). This completes the assembly of the antenna's PVC frame—allow the glue fumes to vent outdoors before proceeding with the next steps.

17) Refer to Photo 13 for the following step. Place the FSL assembly in the position shown, and tightly wrap a turn of your wider waterproof tape around the center of the FSL assembly (adhesive side out), overlapping the ends by 2". If you are using the 1" wide waterproof tape, wrap two turns, with the edges overlapping by 1/4". Temporarily tape one side of the 660/46 Litz wire to the right side of the Noodle (as shown) with a scrap of waterproof tape.

18) Refer to Photo 14 for the following step. Take the 660/46 Litz wire and start the first turn 2" to the left of the ferrite rod edges (so that the coil will be in the center of the rods). Press the first turn down tightly against the waterproof tape, ensuring that it is straight and taught (the FSL assembly will rotate freely on the pipe, to assist in wrapping turns). Continue wrapping the second turn tightly against the first turn, and continue this wrapping action until 25 full turns of Litz wire are wrapped straight and tight around the ferrite sleeve assembly. Secure the ends of the 25-turn coil with a 4" strip of Scotch "Extreme" tape (as shown), and cut off the Litz wire 14" from the taped section.

19) Refer to Photo 15 for the following step. Form the loose end of Litz wire into a curved turn over the top of the "Extreme" tape until it is adjacent to the other Litz wire (as shown), and secure this curved turn with another 4" strip of "Extreme" tape placed exactly on top of the previous one. Untape the other Litz wire end from the side of the Noodle and carefully run each of the Litz wire ends through the 2 1/2" section of shrink tubing, as shown. Ensure that the two Litz wires are straight inside the shrink tubing, and that they are as tidy as possible between the shrink tubing and coil.



Photo 15

20) Refer to Photo 16 for the following step. Temporarily route the two Litz wires into the "Tee" opening at the left side of the frame (to avoid damage during the mounting of the variable cap). Cut a 2 7/8" long length of the 5/8" I.D. rubber hose with straight cuts on both sides, and then cut the rubber hose length with a single, straight cut lengthwise (Note: this rubber hose length is purposely longer than the remaining horizontal space on the 9" horizontal pipe, in order to lock the ferrite sleeve assembly into place, and stop its rotation). Trim any loose rubber strips from the sides of the air hose length, and then apply super glue sparingly along the inner center section of the hose.

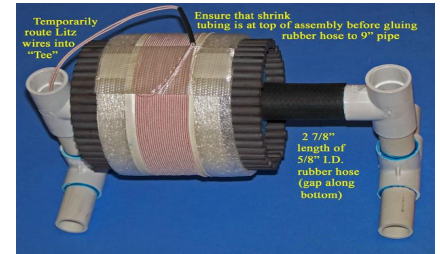


Photo 16

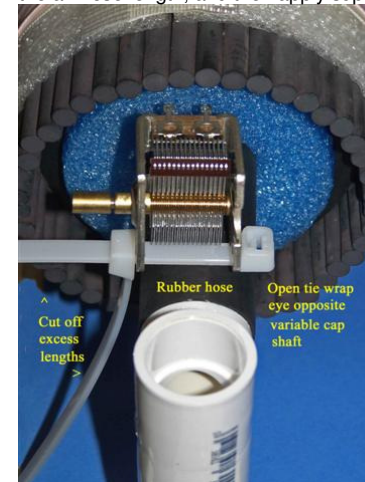


Photo 17

Ensure that the ferrite sleeve assembly is pushed as far left as it will go on the 9" pipe (and that the shrink tubing section is still on top of the assembly), and then attach the rubber hose section on the 9" pipe as shown, with the rubber hose gap along the bottom of the pipe. Press the rubber hose section securely down into place on the pipe, so that the glue makes a tight bond.

21) Refer to Photo 17 for the following step. Take two of the 18" cable tie wraps and pass the end of one through the eye of the other (engaging the "teeth") until there is about 2" of space left between the "eyes" of the two tie wraps. Place this assembly on top of the rubber hose section in the position shown, and then place the variable capacitor on top of this tie wrap assembly with the shaft to the left (as shown in the photo). While holding the right side tie wrap eye steady, gently move the left side tie wrap eye up against the body of the variable cap until the two tie wrap eyes bracket the variable cap body (as shown). After this has been done, temporarily remove the variable

cap and cut off the excess tie wrap lengths (taking care not to move the tie wrap eyes closer together).

22) Refer to Photo 18 for the following step. Place the prepared tie wrap assembly in the position shown in the photo, with the center of the tie wrap exactly 1" from the outer edge of the rubber hose section. Place the variable cap back into position on the tie wrap assembly as shown, so that the variable cap shaft is 1/2" from the outer edge of the rubber hose section. Take the third 18" tie wrap and pass the end through the eye of the tie wrap assembly as shown for a length of 12" (up and over the body of the variable cap which is closest to the terminals), and pass the end through the eye of the same tie wrap as shown. Do not tighten the tie wrap completely until the next step.

23) Refer to Photo 19 for the next step. Ensure that the variable cap is in the position shown, with the shaft completely horizontal. Also ensure that the tie wrap is completely vertical, that its left edge is 1/4" away from the variable cap body's left edge, and that it passes directly over the eye of the tie wrap in the base assembly. Slowly tighten the tie wrap,

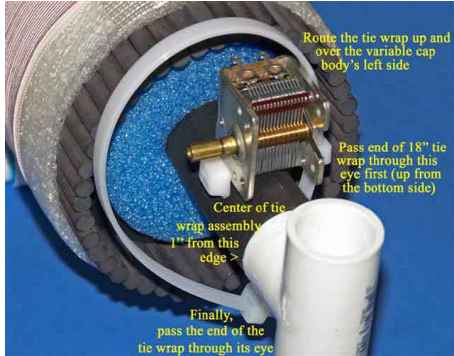


Photo 18

ensuring that the above conditions do not change. Finally, tighten the tie wrap securely to lock the variable cap permanently in place. Cut off the excess tie wrap length.

24) Refer to Photo 20. Install (in this order) a #6 soldering lug and two 6-32 nuts onto a 6-32 screw, and thread this assembly into the variable cap chassis in the position shown, so that the soldering lug is pointing downwards. Tighten the hardware securely in this position. Install the control knob on the variable capacitor shaft, and remove the two Litz wires from the left side "Tee" opening. After ensuring that the shrink tubing section is still pushed back against the "Extreme" tape as closely as possible, cut each of the Litz wires to a length of 2". NOTE: The two 660/46 Litz wires are composed of many individually-insulated conductors, and it is essential to use enough heat and solder to melt all of these conductors together for best performance results. Pre-tin the end of these leads with a hot soldering iron, working completely around the circumference of the tip for a length of about 3/8". Ensure that solder melts all around this entire tip area, and that it includes all the individual conductors. Pre-tin the ends of the two Litz wire leads in this manner as shown, and also tin the upper right variable cap terminal and the solder lug, as shown.

25) Refer to Photo 21 for the following step. Solder one of the Litz wires to the variable cap's near upper terminal as shown, and solder the other Litz wire to the solder lug. Ensure that both connections are electrically secure and clean. Cut four 1 5/8" lengths of the 5/8" I.D. rubber hose with straight, perpendicular cuts (these will be used as the slip-resistant "leg" grips). Cut each rubber hose section lengthwise with a straight cut, and trim off any loose rubber strips from the edges. Place each of the four rubber hose sections in place on the PVC "legs" as shown, and apply a small amount of super glue on both the left and right interior sides of each hose section to lock them in place on the PVC "legs." Press down firmly on the sides of each rubber hose section after the super glue has been applied, while ensuring that the borders of each rubber hose section are aligned with the edges of the PVC "legs." This completes the assembly of the 5" FSL antenna, which is now ready for testing and operation.

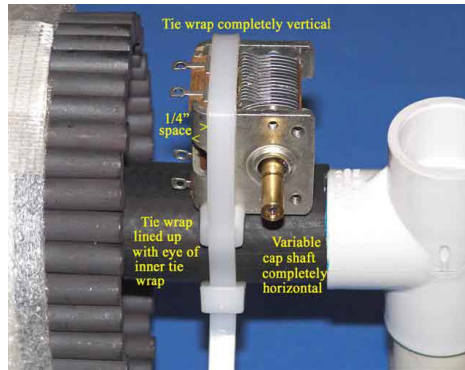


Photo 19

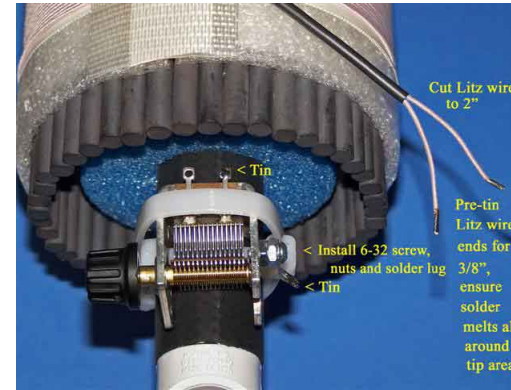


Photo 20

environments (on a PVC base).

- 1) In a location free from RF noise, place the FSL antenna in a secure position on a flat surface, away from metal tables and other large electrical conductors.
- 2) Position your portable radio about 2" in front of the FSL coil for the initial test.
- 3) Tune in a weak signal (the weaker the better) at the low end of the AM band on your portable radio. It is important that the signal is just above the noise level, to demonstrate the effectiveness of the antenna.
- 4) SLOWLY tune the FSL antenna's variable cap until the antenna's resonant frequency matches

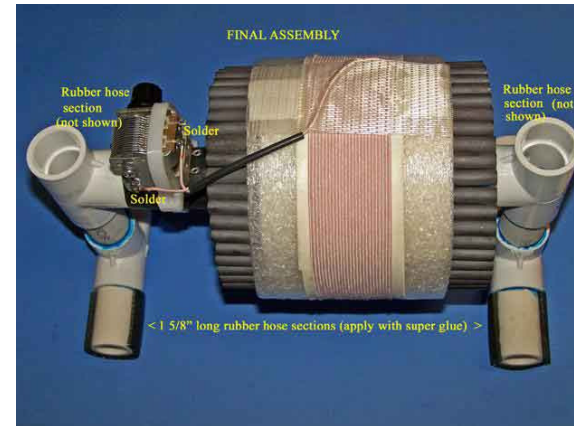


Photo 21

This is also a fairly sharp adjustment, which will provide excellent results when optimized.

- 6) An FSL's DXing performance can be increased by placing the antenna on a non-conducting stand up off of a table, such as on a PVC-framed base for DXpedition or shack usage. Information on such PVC bases and a protective "rain hood" PVC assembly may be obtained from the author.

Conclusion: The introduction of the FSL antenna last year provided DXers with a new option—high gain, low-noise performance from an extremely compact package (although with the "side effects" of concentrated weight and cost.). This particular FSL size was chosen because of its superior tradeoff of high gain with minimal weight and expense—especially in outdoor environments. Whether at an ocean coast cliff or at home in your shack, the author sincerely hopes that it will exceed your DX expectations!

5" Mini-FSL Vs. 4' PVC Air Core Loop Relative Performance Test

Testing and Operation: This antenna is designed to provide a high-gain inductive coupling boost to all portable radios having a loopstick, and unlike other similar-sized antennas, it will provide a very substantial signal boost even to full-sized portables like the ICF-S5W and RF-2200. As designed, it will provide this inductive coupling boost on all frequencies from 460-1710 kHz, with signal gain approximately equal to that of a full-sized 4' air-core box loop. Because of the sharper tuning and lower noise pickup of the FSL antenna design, however, it will occasionally outperform the 4' box loop in the signal-to-noise ratio of weak DX signals—especially for weak DX stations adjacent to strong local transmitters received in outdoor

that of the portable radio. Looking at the variable cap plates can give you a rough idea of your FSL's tuned frequency, with its plates about half open on a center-band (1000 kHz) frequency. The FSL's tuning sharpness is much greater than that of a typical air-core loop, and best results are obtained only when the FSL's variable cap is carefully zeroed in on the correct frequency. When zeroed in on the weak station's frequency, the FSL should give a VERY great inductive coupling boost.

- 5) After the correct frequency is matched, slowly vary the portable radio's distance from the FSL coil to determine the distance for the best inductive coupling boost.

The tiny new 5" FSL was given the tough challenge of going up against a full-sized 4 foot PVC air core loop in the reception of fringe daytime DX signals here in Puyallup, Washington (about 30 miles south of Seattle). The only reason that this match up was even attempted was because the slightly larger 7 inch "Affordable" FSL (article at <http://www.mediafire.com/?dshnqlbydf6qu25>) had previously proven that it could not only compete with the 4' air core loop, but deliver a slightly better signal-to-noise ratio on most of the test signals.

The midget FSL and the large air core loop faced off in the cold back yard, separated by about 60 feet. (see Photo 22) Fringe daytime DX stations were carefully tuned in on both loops, then a barefoot Tecsun PL-380 model was inductively coupled to the 4' air core loop for the first part of each test signal MP3, then to the 5" Mini-FSL within 5 seconds (so that the signals would not fade or increase between recordings) for the last part of each MP3. To ensure accuracy, both loops were directed at the same bearings for each test signal. The MP3s were posted online for you to make your own conclusions.



Photo 22

980-CKNW (50 kw at 160 miles) First 20 seconds with 4' air core loop; MP3 file posted at <http://www.mediafire.com/?br4sw4q5325m8g1>

1040-CKST (10 kw at 160 miles) First 15 seconds with 4' air core loop; MP3 file posted at <http://www.mediafire.com/?oh62u7fpvlh3kt3>

1070-CFAX (10 kw at 90 miles) First 20 seconds with 4' air core loop; MP3 file posted at <http://www.mediafire.com/?uvq65m2j4i3ubl1>

1520-KGDD (50 kw at 160 miles) First 18 seconds with 4' air core loop; MP3 file posted at <http://www.mediafire.com/?c8284pol9bjgkld>

Comments: The 980-CKNW recording was a typical display of the relative reception capabilities of the two loops in the absence of QRM or splatter. The 1040-CKST recording showed the ability of one of the loops to reject some serious 1050-Seattle splatter on the same loop bearing, and the inability of the other loop to do the same. The 1070-CFAX recording seemed to be the most puzzling, but since the signal came from a different direction, perhaps the propagation seemed to favor one loop at the expense of the other. The 1520-KGDD recording seems to be a complete deadlock (which, in the tester's opinion, could be a fairly accurate summary for the overall result in this bizarre match up :-). Thanks to my Ultralight NDB-DXing brother Rob Ross for a very generous gift of 140mm x 8mm ferrite rods to build these Mini FSL's, and to Dave Kellmer of Portland, Oregon for a very generous supply of Funnooles.

IRCA TIS/HAR LIST (Winter 2011)

The **IRCA TIS/HAR LIST** lists all US TIS/HAR stations, by frequency, including call letters, state, city, county, licensee, coordinates, expiration date and dates of DXM/DXN reports. It has been updated with FCC data and DXM/DXN reports through November 15 2011.

Prices: IRCA/NRC members – \$9.50 (US/Canada/sea mail), \$11.50 (México), \$12.50 (rest of the world). Non-IRCA/NRC members – add \$2.00.

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

IRCA Mexican Log, 16th Edition (Winter 2011)

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".

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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.

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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.

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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.

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NRC AM Radio Log, 32nd Edition

The **NRC AM Radio Log** is unbound and three-hole punched for standard binders. Media Rate: \$19.95 to US IRCA/NRC members; \$25.95 to US non-members; to Canadian members, \$24.00 (\$28.95 to non-members); add \$3.50 for Priority Mail. Airmail to all outside of USA/Canada: \$33.00. Canadian orders: PayPal or postal MO only. Order from: NRC Publications – PO Box 473251, Aurora CO 80047-3251, or via www.nrcdxas.org. (CO residents, please add 3.5% sales tax.) Please state your IRCA membership affiliation when you order.

The NRC AM Antenna Pattern Book

The Pattern Book now includes daytime and "Graveyard" frequency patterns for the first time. For those stations which operate with 50 kW (and higher in Mexico) non-directional (designated U1 in the AM Log), the day 'pattern' is shown to approximately the predicted 0.5 m V 1M coverage limits, while the night pattern is illustrated approximately 1.5 times larger. Stations in Alaska and Hawaii are listed on separate pages at the end of the book. The basic list of U.S. and Canadian stations comes from the 26th Edition of the National Radio Club's AM Radio Log. Mexican stations in the states bordering the United States plus those stations elsewhere which are easily heard in the U.S. and Canada are also included. All data is up-to-date as of November 1, 2005.

Prices: \$16.95 to USA/Canada IRCA/NRC members, \$22.95 USA non-members, \$25.95, Canada non-members/all overseas orders. Order from: NRC Publications – PO Box 473251 – Aurora CO 80047-3251 (CO residents, please add 3.5% sales tax). Please state your IRCA membership affiliation when you order.

Antenna Reference Manual, Volume 1 8th Printing, Digitally Enhanced and Updated

This completely-revised book features the plans for the original NRC 4' FET Altazimuth loop antenna. Completely revamped with digitally enhanced drawings and updated material sources, it also contains other articles on the subject of antennas for medium wave DX'ers, most originally published between 1969 and 1974 in DX News. It includes articles on air-core and ferrite core loops, antenna tuners for longwire antennas, and antenna couplers. This is the original book which has been available for over 20 years. \$8.95 to IRCA/NRC members (\$11.95, non-members). 8 1/2" X 11" bound book format.

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Antenna Reference Manual, Volume 2 8th Printing Digitally Enhanced and Updated

This book is a compilation of numerous articles on the subject of antennas for medium wave DX'ers, originally published between 1974 and 1981 in DX News. Some articles were formerly available as reprints. Includes articles on air-core and ferrite core loops, antenna tuners for longwire and Beverage antennas, and phasing units for use with Beverage antennas and longwires. 8 1/2" X 11" bound book format. Price: \$8.95 to IRCA/NRC members; \$11.95 to non-members. Order from: NRC Publications – PO Box 473251 – Aurora CO 80047-3251 (CO residents, please add 3.5% sales tax). Please state your IRCA membership affiliation when you order.

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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.

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